

0002

Document Information Form

Mine Number: C/015/015

File Name: Internal

To: DOGM

From:

Person N/A

Company N/A

Date Sent: November 23, 1981

Explanation:

Inspection Memo

cc:

File in: C/015, 015, Internal

Refer to:

- Confidential
- Shelf
- Expandable

Date _____ For additional information

November 23, 1981

Inspection Memo
to Coal File:

RE: Consolidation Coal Co.
Emery Deep Mine
ACT/015/015
Emery County, Utah

On November 11, 1981, Dave Lof and Sandy Pruitt toured the Emery Deep Mine facility unaccompanied after checking in at the mine office. The purpose of the inspection was to determine the progress of emergency flood repair work.

The Sweetwater coal stockpile is completely dry and berm repair apparently complete. Ponding on the coal stockpile and material storage pad east of the office is extensive. Pad runoff should be conveyed directly to the sediment pond in accordance with UMC 817.45 to minimize erosion, berm and pad grade maintenance, prevent seepage and protect fill stability.

Berm repair and riprap along Christiansen Wash appeared complete and adequate. Berm and riprap material were obtained from the proposed portal location. The September 25, 1981, plans state that berm material would be acquired locally but did not specify the location of a borrow area. An established borrow area near the proposed processing plant location is the likely area for obtaining berm material. Inspectors questioned whether CONSOL had approval to establish a new borrow as this new area was not designated in the plan. As Mr. Brey was unavailable, due to our poorly timed visit, inspectors were unable to accurately determine if topsoil had been salvaged from the borrow; it apparently had not, and some may have been used in berm construction. There was no evidence that any of the disturbance had been seeded yet. The slope resulting from the blasting activity is unconsolidated and does not meet the 1v:1.5h requirement. Borrow material sidecast from the top is more gently sloped but appears very unconsolidated, highly erodible and should be further stabilized or removed.

Berm repair along the scrap metal yard above Quitchupah Creek is incomplete. The berm should be further constructed to the southeast corner of the yard to adequately contain runoff, particularly from the new disturbance. Refuse material in the berm should be removed.

The backfilling work along the Quitchupah Creek embankment appeared adequately stable but should be seeded this fall. CONSOL is hereby reminded that Sally Kefer or Sandy Pruitt are to be notified once construction of the flume at site #3 is re-initiated.

File in:

- Confidential
- Shelf
- Expandable

Refer to Record No 0003 Date 11-23-81

In C/ 015 , 015 , Internal

For additional information

INSPECTION MEMO TO COAL FILE

ACT/015/015

November 23, 1981

Page two

The rock salt pile and noncoal refuse material located above Christiansen Wash across from the sorter should be relocated to prevent water pollution in accordance with UMC 817.48, 817.71 and 817.89, as pertinent. The inlet to the adjacent sediment pond should be cleared of obstruction.

Due to communication problems resulting from DGM moving, Mr. Brey was not contacted in regard to these above-mentioned concerns until November 23, 1981. A 14-day compliance period is hereby granted upon his receipt of this memo, as agreed.

SANDY PRUITT 
RECLAMATION OFFICER

cc: Tom Emmett, OSM
Dean Brey, CONSOL (RRRR)
Inspection Staff

SP/btm

Statistics:

Vehicle: #EX 68804--743 miles

Per Diem: 2 persons X 3 days 10 hours @ \$37.50/day = \$228.82

Grant: A & E

November 5, 1981

Memo to Coal File:

RE: Emery Deep Mine
Consolidation Coal Co.
ACT/015/015
Emery County, Utah

On November 5, 1981, Jean Doutre, Reclamation Officer of the Division of Oil, Gas and Mining conducted a partial inspection of the above mentioned mine site, accompanied by Dean Bray, Environmental Engineer from Consolidation Coal Co.

Mine signs were in place, visible and complete. Perimeter markers are well defined on the western hill area. The mine area bordering on Quitchupah Creek and Christiansens Wash are defined by these streams and buffer zone markers.

Heavy flooding on September 8, 1981, from both of the stream catchments caused deep flooding around the mine, this was considered to be a 50 year event. The berms along Quitchupah Creek at the scale house was broken down in two places, and they scarcely held water out along Christiansens Wash or water could have flooded the mine.

Repair work on the inner stream banks, and the widening of stream beds were initiated by securing permits from the regulatory agencies, and obtaining bids on the work. W. W. Clyde Construction contracted to do the job, brought heavy equipment on site to excavate material from the creeks, build up 3 foot to 4 foot berms and rip rap the embankments with large rocks to prevent erosion along the water courses.

Mr. Dave Jones, project engineer from Consolidation Coal Company at Golden, Colorado, supervised the work, and Ferral Corbit, licensed explosives expert (#1087), was in charge of blasting the rocks from the barron area. The red sandstone cliff face above the east storage area was blasted down for the fill material and rock for rip rap. The entire job was estimated to cost about \$100,000.00 for labor and materials.

The 17 pages of blast reports were inspected at the mine office giving all pertinent data of time, charge size, and weather conditions, with the blasting supervisor and his license number.

This mine has no topsoil storage pile, so sufficient material was brought down from this borrow area to complete the work required.

1. The central sedimentation pond was flooded over, near the bridge, and is about half filled with sediment accumulation. Mr. Bray plans to have this cleaned out and hauled to a landfill area this season.

Inspection Memo to Coal Mine
ACT/005/015
November 5, 1981
Page No. 2

2. A stream channel diversion is planned to rebuild a water monitoring parchall flume and stream flow recorder on a concrete foundation, to firmly fix the equipment in place.

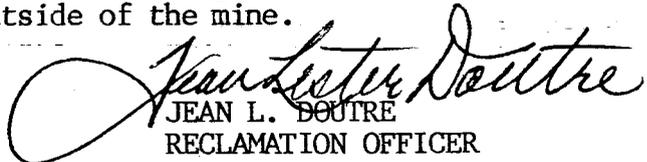
3. Non Coal waste is trucked to American Kinfolk land fill at Huntington, when the non coal waste bunker is full. Most of the iron material that had been stored at the east storage area has been removed from the area. The conveyor rollers are being referbished for the new loadout planned for the western hill area next spring.

4. The three wire, electric power poles have been inspected for raptor protection, and a number of 8 foot long rubber insulators have been ordered to cover the central wire on either side of each pole where danger exists for eagles in the area.

5. Revegetation is planned for the new borrow area recently disturbed on the top and side of the hill overlooking the east storage area.

6. Subsidence control is conducted twice yearly. Stable concreted reference points are surveyed to check if measurable subsidence has occurred over the mined area.

7. Mine water will be used for the washing and treatment plant projected for construction in the coming year, so little water will be discharged into the Quitchupah Creek. According to Division of Water Rights (DOW), this mine water will have to be appropriated for use outside of the mine.


JEAN L. DOUTRE
RECLAMATION OFFICER

JLD:vp

cc: Tom Ehnett, OSM
Dean Bray of Consolidation Coal Co.
Inspection staff

Statistics:

See Cottonwood Portal memo, Nov 4, 1981
Grant: A&E

October 7, 1981

Inspection Memo
to Coal File:

RE: Emery Deep Mine
Consolidation Coal Co.
ACT/015/015
Emery County, Utah

The above-mentioned mine operation was given a partial inspection on September 25, 1981, by Sandy Pruitt of the Division and Ron Thompson of Consolidation Coal Company. Exploration on Consolidation Coal leases near the Hidden Valley Mine were also toured with Bill Eastwood, Consolidation Coal Company.

Christianson wash repair work was underway at the time of the inspection. A bench was being cut into the wash embankment for the placement of riprap. Trash and material was being removed from the base of the highwall that will be blasted for riprap material. No blasting had occurred yet.

Flood water in the Sweet Water coal stockpile area was being pumped to the sediment pond in order to repair the berm and irrigation system.

Exploration activity underway in the section of Consolidation Coal leases on BLM land adjacent to the Hidden Valley Mine were inspected and in compliance. Consolidation Coal plans to drill a total of approximately 60 drill holes this year; only 35 have been drilled. The drill sites inspected August 13, are not completely dry for reclamation yet.

Ground water was encountered on Tuesday, September 22, in a drill hole approximately 750 feet deep. Consolidation Coal encountered problems in plugging the drill hole and it was still discharging at approximately 200 gallons per minute to a gully which eventually drains into Ivy Creek. Drillers were waiting for a plastic tubing which would facilitate plugging and plan to have the hole plugged by either Friday or Saturday. Mr. Eastwood took a sample of the water on Wednesday, September 23. The sample is being analyzed at the State Health lab. Results will be sent to Consolidation Coal, Division of Oil, Gas and Mining and the USGS. Due to the plugging problems, an ungrubbed area surrounding the drill site was impacted. As Mr. Eastwood suspected that another deep drill hole could encounter this aquifer, it was recommended that he adequately grub and remove topsoil from the adjacent areas prior to any impact.

No violations were warranted at this time.


SANDY PRUITT
RECLAMATION OFFICER

cc: Tom Ehmett, OSM
Ron Thompson, Consolidation Coal
Inspection Staff

SP/btm

Statistics:

See Knight Mine memo dated October 7, 1981
Grant: A & E



SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

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August 18, 1981

4697105

REGISTERED RETURN RECEIPT REQUESTED

Mr. Ron Thompson
Consolidation Coal Company
P. O. Box 527
Emery, Utah 84522

Emery Deep Mine
Act 1015/015
Folder # 7

RE: Compliance

Dear Mr. Thompson:

This letter is documentation of requests made during the August 13, 1981, inspection by Jean Doutre, Rex Fidler and Sandy Pruitt. Failure to adequately meet these requirements by the deadlines listed below will warrant violations under the sections cited.

1. Maintain straw bales along the Class III road to the mine water treatment pond to the designed function as required under UMC 817.42(a), 817.45 and 817.175. Deadline August 27, 1981.
2. Stabilize gullies and minimize erosion in accordance with UMC 817.45 and 817.106 at the borrow area and downslope to the sweet water coal stockpile. Deadline August 27, 1981.
3. Reconstruct the berm near the rock salt stockpile above Christiansen Wash to retain runoff within the disturbed area as required in UMC 817.42(a) and 817.45. Implement measures to prevent water contamination by runoff from the rock salt stockpile in accordance with UMC 817.48(b). Deadline August 27, 1981.
4. Remove noncoal waste material from sediment pond embankments and implement runoff control measures around the entire waste disposal area as required in UMC 817.89(a)(c). Deadline September 14, 1981.

Mr. Ron Thompson
August 18, 1981
Page 2

5. It is recommended that runoff control measures be implemented where water ponds around the drilling truck fill-up area at the bore hole pump to prevent runoff from leaving the permit area.
6. You are hereby requested to submit complete and updated reports of water monitoring data to facilitate the determination of trends in water quality affected by the mine operation thereby maintaining adequate regard to UMC 817.42 and 817.52. Deadline August 27, 1981.
7. All future exploration activities should adequately address pertinent sections of UMC 815.15. Deadline immediately.

Please contact either Jean Doutre, Rex Fidler or myself if you have any questions or concerns regarding the above list requirements before the prescribed deadlines.

Sincerely,



SANDY PRUITT
RECLAMATION OFFICER

cc: Tom Ehmett, OSM
Inspection Staff

SP/btm

August 13, 1981

Inspection Memo
to Coal File:

RE: Consolidation Coal Co.
Emery Deep Mine
ACT/015/015
Emery County, Utah

DATE: August 13, 1981
TIME: 10:00 a.m.
WEATHER: Clear & Warm
COMPANY OFFICIAL: Ron Thompson
STATE OFFICIALS: Sandy Pruitt, Rex Tidler and Jean Doutre

Compliance With Permanent Performance Standards

771. et al Permits

Applicable permits were made available for inspection at the mine site office. The USGS 211 plan is to be reviewed in September, 1981. The M & R plan has interim approval and a letter of approval.

The Permit to Mine was issued July 19, 1977. The mine reclamation plan was approved June 16, 1977.

817.11 Signs and Markers

The mine identification sign bearing the required information and address was prominently displayed at the mine site area. It was durable and easily read. Another identification sign was posted at the Electric Substation on the upper road north of the mine; this sign had the address added to comply with a request by Reclamation Officers to complete it.

Perimeter markers around the disturbed area were tall enough for easy detection and reasonable line of sight.

Buffer Zone Markers are placed along the Berm near Quitcupah Creek and Christianson Wash drainage area.

Permit was approved July 13, 1981, following a letter of Notice of Intent to Commence Exploration.

INSPECTION MEMO TO COAL FILE

ACT/015/015

August 13, 1981

Page 2

Drilling exploration is being done by three drill rigs (two owned by Stan Starner of Grand Junction Colorado, and one rig owned by Russell Drilling Co. of Harvey, North Dakota). Three drill sites were inspected by the Reclamation Officers.

One was about 300 feet south of the mine, on the hill between the two loadout areas. The drilling was near the edge of the hill and was graded level for the drill rig. No sumps were dug on site because of the surface rock. The drilling mud was collected into a large circular water trough. Little top soil could be found on the rocky ridge so the area will be regraded to the original contour and sown to grass and brush mixture advised by the Bureau of Land Management.

Normally the farmer on whose farm drilling is being done, requests the drilling operator to do as little disturbance as possible to the area, and to refill the sump holes with subsoil, then topsoil layer just as it was removed. Then to reseed the same crop seed as was disturbed. On each of the two farm sites visited, two deep holes were dug by a back hoe, and a connecting trench between them allows the water to flow from one to the other for retention of water for reuse. Minimal oil spillage was apparent on the agricultural land, but there was concern that during the 2-3 day drilling period more oil might fall onto the topsoil and contaminate it.

There was also the possibility of drill mud flowing over the edge of the sump and across the land. It was considered expedient for an earthen dike to be built along the lower edge of the holes to contain the water and mud.

At the completion of inspection, a meeting was held with the operator, the drilling supervisor and the inspectors. Concerns were presented. Bill Eastwood, Drill Supervisor, agreed to provide a berm dike around the sump holes to prevent any drilling mud from flowing onto the fields, remove topsoil and address other requirements of UMC 815.15

Drill sites from previous years were pointed out to the inspecting officers. They were as well vegetated as the surrounding area with similar plant species. Success is claimed because of the limited disturbance to the surface by mechanical equipment.

817.21 - .25 Topsoil

The Emery Deep Mine area has been operating since 1890. No topsoil has been saved for reclamation plans for the development of the area north of the mines for three sections of conveyer. A preparation plant, tippie and loadouts, and a large sediment pond will affect several acres. Top soil will have to be stripped for revegetation of these areas.

INSPECTION MEMO TO COAL FILE

ACT/015/015

August 13, 1981

Page 3

817.41 - .52 Hydrologic Balance

Due to the need for more water for the newly planned preparation plant, runoff from the disturbed area in Christiansen Wash is retained in a large central sediment pond inter-connected to smaller sediment ponds. The extra water will be required for washing coal and carrying slurry to ponds.

A new sediment pond is planned for the hill area to collect all run off from this disturbed area. Slurry ponds are planned west of the mine highway in the flat area on both sides of the present mine water treatment pond.

The proposed mine plan amendments should be at the Division office in September for study and recommendations before construction, drainage and the sediment pond work can begin.

Proposed changes in drainage from the hill area will retain water on the north side to the new sediment pond area. Construction permits for the new pond will be required from Department Of Health and NPDES permits from Environmental Protection Agency.

517.52 Surface & Ground Water Monitoring

The NPDES permits; #UT. 0022616 and #UT. 0022624 for the underground and surface waters expired June 30, 1980. A letter of Continuance was received October 1, 1980, from Environmental Protection Agency. Any discharge would flow into Quitchupah Creek. There was an N.O.V. (#81-3-10-2) written July 1, 1981, after a flood on the 27th of June circumvented below the berm at the secondary coal storage, south of the mine, and reached the creek. This was abated July 2, by regrading the slope toward the sediment pond, and repairing the road base beside the berm.

There is an approved ground water monitoring program. It is being implemented and the data is available at the office on the mine site. All the surface and ground H₂O monitoring data is not being mailed to the Division. It has been requested that the additional information should be mailed to Division of Oil, Gas & Mining.

Information from December 12, 1980, to June 24, 1981, was examined for both the surface water and mine waters discharge. The mine water treatment pond has been discharging regularly, but was not flowing into Quitchupah Creek at the time of inspection.

817.81 -.93 Coal Processing Waste:

The Emery Deep Mine operation does not process coal at this time. A processing plant is being planned for construction and plans will be submitted soon.

817.89 Disposal of Noncoal Waste

The trash is being held in an excavation into the rocky hill southwest of the mine adjacent to the auxilliary coal storage and old machinery area. When it is full, it is periodically hauled to the American Kinfolk landfill near Huntington.

817.97 Protection of Fish, Wildlife and Related Environmental Values.

Mr. Ron Thompson has met with the Division of Wildlife and completed a survey of roosting birds, such as hawks, eagles and owls. All of the wiring is a three phase three wire service. While the power is shut down, they will insulate the highest central wire for eight feet on either side of the pole to comply with raptor protection. The lead in wires for the substation can be dealt with by Utah Power and Light.

817.111 - .117 Revegetation

The dry low lying area of Emery Deep Mine is more difficult to seed, particularly on steep slopes, berms and high wall cuts. On the flatter areas common to the valley floor, better success is obtained with the Bureau of Land Management standard mixture.

Revegetation will begin in September.

817.121 - .126 Subsidence Control:

The mine has a subsidence monitoring plan, which is being implemented as approved. Examination of results of the level survey on a horizontal traverse show very little change in elevation from year to year.

817.150 - .176 Roads

The main road to the Emery Deep Mine is a Class I, tar sealed haulage road to the scale area and is quite well maintained in the disturbed area. The present Class III roads must become Class I, with the construction of the new loadouts and turnaround facilities. Straw bales along the Class III road to the mine water treatment pond should be maintained before the end of this month. Several areas of concern were pointed out to the operator during the inspection, which he agreed to address right away.

1. A salt pile, southeast of the tippie, should be removed to another area and a berm built around it. The perimeter berms need building up at this point, so no water and sediment can escape from the disturbed area.

INSPECTION MEMO TO COAL FILE
ACT/015/015
August 13, 1981
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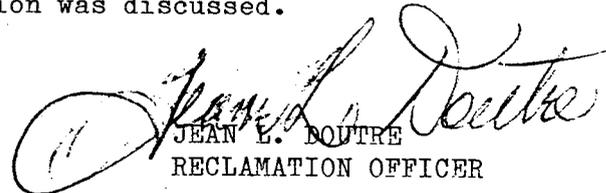
2. At the south storage area and auxillary coal storage area, old machinery, fan housing and junk iron has been allowed to litter the upper end. Because of its proximity to the edge, no berm has been maintained around it. This should be removed and maintenance carried out immediately; similarly, scrap material must be removed from the lower sediment pond and embankments.

3. A berm has recently been built around the mine dewatering pump. This should be extended to contain water from flowing around the berm and carrying silt from the distrubed area.

4. The knoll north of the Class III road, leading to the substation has been used as a barrow area. The berm is incomplete and should be built up on the east and west sides near the roadway.

5. Gully erosion is apparent, and should be dealt with on the east side planning area and straw bales should be used where necessary. The approach to Quitchupah Creek leading to the mine water treatment pond requires dressing with straw bales to stop erosion into the creek.

During the inspection tour of the mine area, the site of the surface mine was visited and the future open cast operation was discussed.


JEAN L. DOUTRE
RECLAMATION OFFICER

JLD/vp

cc: Tom Ehmétt, OSM
Ron Thompson, Engineer
Inspection Staff

Statistics: Three People, two days 7 hours
Total per diem \$136.12 X 3 people = \$408.36
EX 68804
Mileage
Grant A & E

SCOTT M. MATHESON
Governor



fill act/015/05

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

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Vacation or Termination of Notice or Order

To the Following Permittee or Operator:

Name CONSOLIDATION COAL CO. EMERY DEEP MINE
Mailing Address P.O. BOX 527 EMERY, UTAH 84522
State Permit No. ACT/015/015

Utah Coal Mining and Reclamation Act, Section 40-10-1 et. seq., Utah Code Annotated (1953):

Notice of Violation No. N 81-3-10-2 81 2 dated 7/1, 19 81
Y TV

Cessation Order No. C _____ Y TV dated _____, 19 _____

Violation No. 1 is hereby Terminated _____ Vacated because:
Violation No. 2 is hereby Terminated _____ Vacated because:
Violation No. _____ is hereby _____ Terminated _____ Vacated because:

Date of Service 7/15/81 Joseph C. Helfrich
Signature of Authorized Representative

Time of Service or Mailing 1:35 a.m. p.m. JOSEPH C. HELFRICH 1
Name and I.D. No.

EFFECTIVE DATE OF TERMINATION 7/2/81

July 23, 1981

Inspection Memo
to Coal File:

RE: Consolidation Coal Company
Emery Deep Mine
ACT/015/015
Emery County, Utah

The above-mentioned mine operation was given a follow-up inspection on July 15, 1981. Joe Helfrich, Jean Doutre and Rex Fidler of the Division of Oil, Gas and Mining were accompanied by Ron Thompson, mine engineer, to inspect abatement measures for DOGM NOV #N81-3-10-2, 1 of 2 and 2 of 2, issued July 1, 1981.

1. NOV #1 of 2, UMC 817.42(a)(1) - Failure to pass runoff from a disturbed area through a sediment pond or series of sediment ponds, or a treatment facility prior to leaving the permit area. This was abated by construction of a berm around the pump, so oil would be contained and could not enter the undisturbed area.

2. NOV #2 of 2, UMC 817.45(1)(iii) - Failure to maintain sediment control measures to prevent additional contributions of sediment to streamflow outside the permit area and to minimize erosion to the extent possible. This was abated by repairing the berm at the bottom area of the coal storage pad, which had settled from constant heavy coal transport which could have also caused cracking of the underfill as it consolidated outward, allowing runoff to escape down through the pad side. Abatement work on both locations was accomplished on July 2, 1981, the day following the issuance of the violations and a phone call was received notifying the Division of Oil, Gas and Mining of the completion work.

After the July 15, 1981 inspection, the violations were terminated.

JEAN LESTER DOUTRE
RECLAMATION OFFICER

JLD/te

cc: Tom Ehmett, OSM
Ron Thompson

Statistics:

339 Miles

3 persons, 3 days = \$319.52

Grant - A&E

July 22, 1981

Inspection Memo
to Coal File:

RE: Consolidation Coal Co.
Emery Deep Mine
ACT/015/015
Emery County, Utah

On July 1, 1981, Division Reclamation Officers Jean Doutré and Tom Portle performed a partial inspection of the above-mentioned minesite. They were accompanied on this inspection by Dean Bray.

It was noted that mine signs above the mine near the pad for the electrical substation/PCB storage shed/water tank pad area did not contain the address and phone number of the mining company. The operator was informed of this at the time.

In the above area, it was also noted that some transformers were stored outside the contained PCB storage building. Apparently, this material is not of high enough concentration to warrant its storage in the building itself. Since the area was protected by a dike, it satisfied the requirements for PCB containing materials of this concentration range.

Immediately below this area, there is a borrow area utilized to obtain materials necessary for the construction of the dikes that were required for drainage control in the PCB storage building/substation pad. There was some minor evidence of erosion in this area and this should be followed up on the next inspection. The overall area is fairly well contained and does not appear to be hazardous, since it is a relatively flat area in nature.

Consolidation Coal Company had placed perimeter markers along all these above-mentioned areas and they were deemed to be adequate. They were also inspected near the mine water filter pond. An area in the upper material storage pad area and also off the road which goes past the fan which was considered to be inadequately marked by perimeter markers. Consolidation agreed to place perimeter markers in this area prior to the next monthly inspection.

There had been a storm in the immediate vicinity two days prior to the inspection. In the upper materials yard area, the grade in this area was inadequately maintained. This appeared to have resulted from the temporary storage of a large amount of coal in this area. Because of this, drainage did not enter the pond and instead was conveyed along the berm on the outside of this area just above the creek. A breached berm resulted from this lack of drainage control. As a result of this breach, a large amount of runoff containing sediment left the permit area and was discharged into the creek. This warranted a violation.

NOV #81-3-10-2

Nature of Condition, Practice or Violation:

Failure to maintain sediment control measure to prevent additional contributions of sediment to stream flow outside the permit area and to minimize erosion to the extent possible.

Provision of the Regulations or Act Violated:

UMC 817.45(i)(iii).

Portion of Operation Affected:

Breached berm on east side of material storage yard where runoff leaves the permit area.

Remedial Action:

1. Repair berm to prevent runoff from leaving permit area.
2. Regrade pad to direct runoff into sediment pond.

Time for Abatement:

Thirty (30) days, no later than 8:00 a.m., July 31, 1981.

The borehole road leading to the relay pump utilized to convey mine water discharge into the treatment pond, a problem was in evidence. Oil spills and improper storage of materials in this area coupled with the lack of a berm created the potential for contamination of water outside the permit area. Because of this, the following violation was written:

Nature of Condition, Practice or Violation:

Failure to pass runoff from the disturbed area through a sediment pond or a series of sediment ponds or treatment facility prior to leaving the permit area.

Provision of Regulation Violated:

UMC 817.42(a)(1).

Portion of Operation to Which Violation Applies:

Area near mine water pump along fence and perimeter markers.

Remedial Action:

Prevent water from disturbed area from leaving the permit area without treatment.

Time for Abatement:

Thirty (30) days, no later than 8:00 a.m., July 30, 1981.

There are three Class III roads in the Emery Deep minesite area which presented problems in terms of drainage control. On a number of occasions, inspectors have requested action to correct this situation. One of these discussions prompted Mr. Ronald G. Thompson, mining engineer, to write a letter committing to a plan for drainage control in these areas by May 1, 1981. In this letter, he identified three roads:

1. The access road to the water tank.
2. The access road to the sediment pond.
3. The access road to the borehole pump.

In regards to each of these, the following work has been done:

1. On the access road to the water tank, a berm has been put up along the road confining this area and berms have been placed along the road in areas where water would exit into the drainage. The lower part of this road drains down a ditch on the main access-haul road and is culverted across into their sweet coal stockpile area where it ponds. A minor amount of erosion is in evidence due to this technique of water conveyance.
2. The access road to the sediment pond. The areas has been adequately addressed by sealing the road off from vehicular access and by employing straw bales in all ditches. During the inspection, at this time, the straw bales were in a bad state of repair and Mr. Bray was informed that these would need to be repaired prior to the next monthly inspection.
3. The access road to the borehole pump drainage was not controlled in off this area and the above violation resulted from water leaving from the pump area. Although this road should be in compliance, a certain amount of confusion was in existence. On June 4, 1981, Mr. Hughes received approval from the Division to delay plans and reclamation of the RO pond but also in this letter, the

INSPECTION MEMO TO COAL FILE
ACT/015/015
July 22, 1981
Page 4

Division requires them to meet the specification and maintenance standards for Class III roads. To a large extent, this has been accomplished, but because of confusion in the way the approval was interpreted, inspectors felt that Emery Deep should be given another month to provide plans for this road. This should be checked on the next monthly inspection.

THOMAS L. PORTLE *TLP*
RECLAMATION OFFICER

cc: Tom Ehmett, OSM
Ron Thompson, Consolidation
Dean Bray, Consolidation
Inspection Staff

TLP/btm

Statistics:

Vehicle: #EX 68805--484 Miles
Per Diem: Two person x two days 10 hours @ \$37.50/day = \$170
Grant: A & E

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS & MINING

1588 West North Temple
Salt Lake City, Utah 84116
Telephone: (801) 533-5771

NOTICE OF VIOLATION NO.N

From the STATE OF UTAH
To the Following Permittee or Operator:

NAME Consolidated Coal Co.
MINE Emery Deep SURFACE UNDERGROUND OTHER _____
CATEGORY OF OWNERSHIP: STATE FEDERAL FEE MIXED
OSM MINE NO. _____ STATE PERMIT NO. ACT 10151015 MSHA I.D. NO. _____
COUNTY AND STATE: Emery, Utah TELEPHONE 801-286-2307
MAILING ADDRESS: Box 527, Emery, Ut. 84522
DATE OF INSPECTION July 1, 19 81
TIME OF INSPECTION: FROM 12:00 a.m. to 2:15 a.m.
 p.m. to p.m.
NAME OF OPERATOR (if other than permittee) _____
MAILING ADDRESS: _____

Under the authority of the Utah Coal Mining and Reclamation Act of 1979 (Sec. 40-10-1 et seq., Utah Code Annotated, 1953), the undersigned authorized representative of the Director and the Division of Oil, Gas & Mining has conducted an inspection of the above mine on the above date and has found violation(s) of the Act, the regulations or required permit condition(s) listed in the attachment(s). This Notice constitutes a separate Notice of Violation for each violation listed.

You must abate each of these violations within the designated abatement time. You are responsible for doing all work in a safe and workmanlike manner.

The undersigned representative finds that cessation of mining is is not expressly or in practical effect required by this Notice. For this purpose "Mining" means extracting coal from the earth or a waste pile and transporting it within or from the minesite.

This Notice shall remain in effect until it expires as provided on the reverse or is modified, terminated or vacated by written notice of an authorized representative of the Director of the Division of Oil, Gas & Mining. The time for abatement may be extended by the authorized representative for good cause, if a request is made within a reasonable time before the end of the abatement period.

Date of Service July 1, 1981 Thomas L. Partle
SIGNATURE OF AUTHORIZED REPRESENTATIVE
Time of Service 2:15 a.m. Thomas L. Partle #3
 p.m. NAME AND I. D. NO.
Person Served with Notice Dean Bray, Mine Engineer
PRINT NAME AND TITLE

Signature Dean Bray

IMPORTANT — PLEASE READ REVERSE OF THIS PAGE



STATE OF UTAH

NOV #
Cessation Order No. C 81-3-10-2

Violation No. 1 of 2

Nature of Condition, Practice, or Violation

Failure to pass runoff from a disturbed area through a sediment pond or series of sediment ponds at a treatment facility prior to leaving the permit area.

Provision(s) of the Regulations, Act, or Permit Violated

UMC 817.42 (a)(1)

Check Appropriate Box:

- The condition, practice, or violation is creating an imminent danger to the health or safety of the public.
- The condition, practice, or violation is causing or can reasonably be expected to cause significant, imminent environmental harm to land, air, or water resources.
- The permittee or operator has failed to abate Violation(s) No. _____ included in Notice of Violation No. _____

N _____ within the time for abatement originally fixed or subsequently extended.

Operation(s) to be Ceased Immediately
Portion of operation to which now applies.

Area near mine water pump along Fence and ~~at~~ intersection. *per meter meter*

Remedial action:
Affirmative Obligation(s) and Time for Abatement (if applicable)

Prevent water from disturbed area from leaving permit area without treatment.

Time for Abatement

30 days; related them 8:00 AM; July 30, 1981.



STATE OF UTAH

NOV #
Cessation Order No. C 81-3-10-2

Violation No. 2 of 2

Nature of Condition, Practice, or Violation

Failure to maintain sediment control measures to prevent additional contributions of sediment to stream flow outside the permit area, and to minimize erosion to the extent possible.

Provision(s) of the Regulations, Act, or Permit Violated

UMC 817.45 (i)(iii)

Check Appropriate Box:

- The condition, practice, or violation is creating an imminent danger to the health or safety of the public.
- The condition, practice, or violation is causing or can reasonably be expected to cause significant, imminent environmental harm to land, air, or water resources.
- The permittee or operator has failed to abate Violation(s) No. _____ included in Notice of Violation No. N _____ within the time for abatement originally fixed or subsequently extended.

Operation(s) to be Ceased Immediately portion of operation

Breached berm on East side of materials storage yard where runoff leaves the permit area.

Remedial Action

Affirmative Obligation(s) and Time for Abatement (if applicable)

- 1) Repair berm to prevent runoff from leaving permit area.
 - 2) Regrade pad to direct runoff into sediment ponds.
- Time for abatement

30 days, no later than 8:00 AM July 31, 1981.

June 16, 1981

Inspection Memo
to Coal File:

RE: Consolidation Coal
Emery Deep Mine
ACT/015/015
Emery County, Utah

The above-mentioned operation was given a partial inspection on June 11, 1981, by Sandy Pruitt, reclamation officer for the Division.

Ron Thompson was not available, so I requested permission to inspect the road to the water tank to determine if temporary drainage control measures were adequate. There was no noticeable grade improvement since the last inspection. Drainage was contained in the road with several discharge points to reduce drainage volume and velocity. A berm across the road at the pad perimeter retained pad runoff from the road. Another berm was constructed to prevent further erosion at a point below this.

Depending on how soon plans for the prep plant and road reconstruction are formulated and submitted, the present road drainage pattern is temporarily adequate.

Revegetation success on the pad was minimal. Russian thistle and Halogeton predominated. Several old transformers were being stored in front of the PCB storage facility. I could not determine if they contained PCB.

The borrow area down the road from the water tank needs a little dress-up for complete containment of drainage, but no significant erosion has occurred. Perimeter markers consisting of pink flagged roof poles were posted in this area. I think Ron Thompson was in the process of posting these in the rest of the area.

SANDY PRUITT *SP*
RECLAMATION OFFICER

cc: Tom Ehmett, OSM
Ron Thompson, Consolidation Coal

SP/btm

Statistics:

See Knight Mine memo dated June 1981.



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple

Salt Lake City, Utah 84116

(801) 533-5771

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

June 5, 1981

#4791134

REGISTERED - RETURN RECEIPT REQUESTED

ACT/015/003
ACT/015/015 ✓

Mr. Jim Thompson
Consolidation Coal Company
#2 Inverness Drive East
Englewood, Colorado 80112

RE: Compliance

Dear Mr. Thompson:

Pursuant to Section 40-10-20, 21, 22 and 23, Utah Code Annotated, and UMC/SMC Parts 843, 845 and 900, the attached information has been provided to inform you of the penalties for not complying with a Notice of Violation or Cessation Order. It is the Division's intent to expressly inform the operator of the consequences resulting from non-compliance. Please call if you have any questions.

Sincerely,

JAMES W. SMITH, JR.

COORDINATOR OF MINED LAND DEVELOPMENT

JWS/te

Attachment

May 29, 1981

Memo to Coal File

Re: Emery Deep Mine
Consolidation Coal Company
ACT/015/015
Emery County, Utah

On May 22, 1981, Division Reclamation Officer Tom Portle performed a partial inspection at the Emery Deep minesite. Ron Thompson representative for Consolidation Coal was not available at the time of the inspection. Because of this a cursory review of revegetation efforts on site was the main thrust of the inspection.

Apparently, lack of snowfall which would have provided some insulation coupled with cold winter temperatures resulted in some winter kill. Most of the revegetated area's looked fairly barren. Some crested wheat grass stands looked good, and also the sage showed some promise. Many areas were quite barren. In many areas the shrubs could not be found while others had not leafed out. Consol expects that it will take two or three years before these shrubs become firmly established.

THOMAS L. PORTLE ^{TLP}
RECLAMATION OFFICER

cc: Tom Ehmett, OSM

Statistics:

Vehicle #EX 70237

1,048 miles

1 person x 3 days, 6 hours @ 37.50 per day = \$ 92.50

Grant A & E

TLP/bb

May 12, 1981

Inspection Memo
to Coal File:

RE: Emery Deep Mine
Consolidation Coal Co.
ACT/015/015
Emery County, Utah

Tom Portle and Sandy Pruitt of the Division visited Ron Thompson at the Emery Mine office on April 30, 1981, to obtain information concerning Consolidation Coal's plans for addressing areas of concern noted during an inspection January 29, 1981 (i. e. , the evaporation lagoon and three Class III roads).

In short, Mr. Thompson didn't know what the plans were and needed to contact Consolidation Coal's Denver office. As the company committed to submitting plans to the Division by May 1, 1981, we requested that he have the Denver office inform the Division also.

Ron Hughes, senior engineer for Consolidation Coal, called Wayne Hedberg on May 6, 1981, to inform him of new plans to drill a well for culinary water and forego the reverse osmosis treatment. The evaporation lagoon would need to be used for approximately two months and then would be removed. The mine water treatment pond is adequately sized to contain water displaced from the lagoon. Wayne Hedberg requested that plans for the reclamation of the pond be submitted along with construction and reclamation plans for the water well.

Ron Thompson did not know the ownership status of the access road to the water tank but told inspectors that Consolidation Coal would maintain the access. Wayne Hedberg requested in a phone conversation with Mr. Hughes that Consolidation Coal's Denver office determine the status of the road and submit plans for sediment control and a maintenance schedule if responsible for the road.

Perimeter markers were not posted yet. Mr. Thompson was informed of the requirements and the location of the markers and committed to having them in place by July 1, 1981. The same deadline was given for addressing UMC 817.97(b).

No violations were issued.


SANDY PRUITT
RECLAMATION OFFICER

cc: Tom Ehmett, OSM

SP/btm

Statistics:

See Geneva Mine memo dated May 12, 1981



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

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March 5, 1981

Mr. Ron Thompson
Emery Deep Mine
Consolidation Coal Company
P. O. Box 527
Emery, Utah 84572

Dear Mr. Thompson:

Enclosed are copies of two recent inspection memos for your record and information. I have also requested that a copy of the Permanent Regulations with the recently proposed amendments be sent to you soon.

I'm sorry that I'm late in sending these memos documenting the requirements for the March inspection, but I've been away from work with a skiing injury.

If you have any questions arising from these memos, please call me.

Sincerely,


SANDY PRUITT
RECLAMATION OFFICER

Enclosures

SP/btm

March 12, 1981

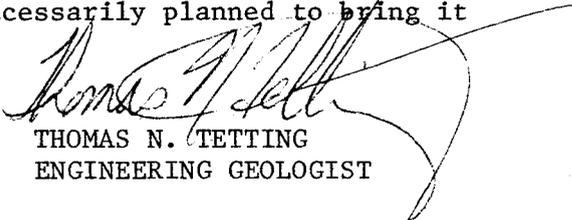
Inspection Memo
to Coal File:

RE: Emery Deep Mine
Consolidation Coal Co.
ACT/015/015
Emery County, Utah

The above-mentioned mine operation was given a partial inspection on March 3, 1981, by Joe Helfrich, Tom Portle, Sally Kefer and Tom Tetting. No mine personnel were contacted as they were absent after 5:00 p.m., when the inspectors arrived.

The mine is currently active. Observations were made of a newly constructed containment berm around facilities on the south facing sandstone cliff above the mine portal. It had been placed in compliance with previous directions. A berm had also been constructed along the road that crosses the creek adjoining the old storage area to comply with similar directions.

An upper road providing access to the facilities on the cliff was indicated to fall into a class III classification via a phone conversation between Tom Portle and Ron Thompson on March 3, 1981. Plans will be sent to the Division regarding steps taken or necessarily planned to bring it up to standards.



THOMAS N. TETTING
ENGINEERING GEOLOGIST

cc: Tom Ehmett, OSM
Ron Thompson, Consolidation Coal Co.
Tom Portle, DOGM

TNT/btm

Statistics:

See Hiawatha memo dated March 10, 1981.

March 6, 1981

Inspection Memo
to Coal File:

RE: Consolidation Coal Company
Emery Deep Mine
ACT/015/015
Emery County, Utah

The above-mentioned mine operation was given a follow-up inspection on February 5, 1981. Joe Helfrich, Tom Portle and Sandy Pruitt of the Division met with Ron Thompson of Consolidation Coal to determine if areas of concern noted in the last inspection were addressed as required.

Construction of a berm behind the PCB temporary storage facility and power substation was underway. The road to the mine water treatment pond has been blocked off with a berm and hay bales were bolted down in the drainage ditch in the road on both sides of Quitchupah Creek. Material has been removed from along side the road to the strip mine test site. Mr. Thompson has plans to construct a berm across the road to block access fro the miners and control drainage. This road may be a county road and, therefore, would not need to be reclaimed. The status of this road should be determined during the next inspection.

SANDY PRUITT 
RECLAMATION OFFICER

cc: Ron Thompson, Consolidation
Tom Ehmett, OSM

SP/btm

Statistics:

See Hiawatha memo dated February 1981.

March 6, 1981

Inspection Memo
to Coal File:

RE: Consolidation Coal Company
Emery Deep Mine
ACT/015/015
Emery County, Utah

DATE: January 29, 1981
TIME: 9:45 a.m.
WEATHER: Partly cloudy and Cool
COMPANY OFFICIAL: Ron Thompson
STATE OFFICIALS: Joe Helfrich, Tom Portle, Sandy Pruitt
STATE ENFORCEMENT ACTION: None

Compliance with Permanent Program Regulations

717.11 Permits

The Emery Deep Mine was given tentative approval under the Interim Program on May 11, 1978. The Denver office is currently working on a mine plan submittal under the permanent program.

NPDES #UT-0022616 which expired June 30, 1980, has been automatically extended upon application for renewal.

817.11 Signs and Markers

A sign was posted at the main access point to the mine as required. A mine sign is required for a dirt road from Emery at the access point to the upper yard where the PCB temporary storage facility is. Perimeter markers are ready to be posted and should be in place by the next inspection. Buffer zone markers are in place along Christianson Wash and Quitcupah Creek.

817.21-.25 Topsoil

No topsoil has been stockpiled as most of the mine area has been previously disturbed.

817.41-57 Hydrologic Balance

Surface and ground water monitoring plans, with eight surface water monitoring points and 31 ground water monitoring points, are adequate and approved under the Interim Program. Monitoring data up through December 10, 1980, was available for inspection. Data from several surface water monitoring points above and below the mine operation contained high TSS values. Mr. Thompson claimed that this fluctuated with the season and was due to the extent of irrigation and recharge in the surrounding area that would contribute to seep points above and within the mine area. Two sediment pond discharge points are monitored under the NPDES permit. "No discharge" was reported for the surface facilities sediment pond. The mine water sediment pond receives an average 300,000 gallons per day mine water and is continuously discharging. NPDES data examined was in compliance with the permit conditions.

Inspection Memo to Coal File
ACT/015/015
March 6, 1981
Page two

The access road to the mine water treatment pond is no longer in use and reclamation is planned for this spring. It was requested that a berm be established across the head of the road and straw bales be staked down along the drainage ditch in the road to reduce erosion and trap sediment.

The upper yard has been recently redisturbed in construction of the temporary PCB storage facility. Reseeding is planned for this spring. Runoff control measures are required until vegetation can be established. A berm along the east side of the yard will prevent runoff from leaving the permit area. This should be in place within one week.

Other areas of concern include excessive erosion evident on the down slopes from the office pad where energy dissipaters are required at discharge points from the roof drainage pipes. The bridge, crossing Quitchupah Creek, to the upper coal storage yard is not bermed to control runoff. Mr. Thompson committed to addressing these problems.

An evaporation pond constructed for waste water from the reverse osmosis water treatment process does not meet design criteria of UMC 817.46 or 817.49. Mr. Thompson was informed that the pond should be removed or upgraded to comply with these standards.

817.71 Disposal of Underground Development Waste and Excess Spoil and Nonacid and Nontoxic Forming Coal Processing Waste

Waste rock from mine development is hauled to an EPA approved disposal site near Huntington.

817.100 Contemporaneous Reclamation

A strip mining test site developed in 1976 has been reclaimed. The area was regraded, topsoil redistributed and seeded. A vegetative cover is presently well established. The access road to this area is no longer in use and should be reclaimed. Mr. Thompson committed to establishing a berm across the road to prevent access and control runoff from the mine area and seeding the road within one week.

817.111 Revegetation

Varied success is evident from hydromulching and tube packing done in May and June 1980 to the berms and pond embankments. A revegetation program should be implemented this spring that addresses the berms around the upper coal storage yard, the disturbed area around the PCB storage facility and water tank, inslopes to the sediment pond and all areas scheduled for reclamation.

817.121 Subsidence Control

A subsidence monitoring program consisting of 30 stations that are monitored every six months has been approved under the Interim on February 6, 1980.

Inspection Memo to Coal File
ACT/015/015
March 6, 1981
Page three

817.150 Roads

The grade of the road to the water tank and PCB storage area should be maintained to control drainage and prevent further erosion. The access roads to the mine water treatment pond and strip mining test site are no longer in use. Access should be prevented and drainage controlled until the roads are reclaimed.

Comments

Notification of Utah's permanent program conditional approval had not been sent to all operators before this inspection, so no violations were issued. Mr. Thompson committed to addressing drainage control problems at the PCB storage area and roads to the mine water treatment pond and reclaimed strip mined site within one week. A more severe penalty for violations will be warranted if these are not addressed as of the next inspection.

SANDY PRUITT 
RECLAMATION OFFICER

cc: Ron Thompson, Consolidation
Tom Ehmett, OSM

SP/btm

Statistics:

See Hidden Valley memo dated February 1981.

file ACT/015/015



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

CHARLES R. HENDERSON
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EDWARD T. BECK
E. STEELE McINTYRE

CLEON B. FEIGHT
Director

Vacation or Termination of Notice or Order

To the Following Permittee or Operator:

Name Consolidation Coal Co. - Emery Deep Mine
Mailing Address Po Box 527 Emery UT 84522
State Permit No. ACT/015/015

Utah Coal Mining and Reclamation Act, Section 40-10-1 et. seq., Utah Code Annotated (1953):

Notice of Violation No. N 81-2-16-2 81 2 dated 12/16, 19 81
Y TV

Cessation Order No. C _____ Y TV dated _____, 19 _____

Violation No. 2 is hereby X Terminated effectively 12/29/81 _____ Vacated because:

Violation No. _____ is hereby _____ Terminated _____ Vacated because:

Violation No. _____ is hereby _____ Terminated _____ Vacated because:

Date of Service 1/27/82 _____
Signature of Authorized Representative [Signature]

Time of Service or Mailing 1:00 a.m. X p.m. _____
Name and I.D. No. Sandy Pruitt # 2

P20 0367253

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse) 1/27/015/015

SENT TO <i>DEAN BRAY - CCC</i>	
STREET AND NO. <i>PO BOX 527</i>	
P.O., STATE AND ZIP CODE <i>EMERY, UT 84522</i>	
POSTAGE	\$
CONSULT POSTMASTER FOR FEES	
CERTIFIED FEE	¢
SPECIAL DELIVERY	¢
RESTRICTED DELIVERY	¢
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
SHOW TO WHOM AND DATE DELIVERED	¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE <i>DEC 30 1987</i>	

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1979

SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered.....
 Show to whom, date and address of delivery.....
 RESTRICTED DELIVERY
 Show to whom and date delivered.....
 RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery. \$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
DEAN BRAY - CCC BTB
PO BOX 527
EMERY, UT 84522 BTB

3. ARTICLE DESCRIPTION:
 REGISTERED NO. CERTIFIED NO. INSURED NO.
 _____ *0367253* _____
 (Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent

4. DATE OF DELIVERY
12-30-87

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:



GPO : 1979-288-848



PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, \$300

State of Utah
Natural Resources & Energy
 Oil, Gas, & Mining
 4241 State Office Building
 Salt Lake City, Utah 84114

(Name of Sender) _____

(Street or P.O. Box) _____

(City, State, and ZIP Code) _____



SENDER INSTRUCTIONS
 Print your name, address, and ZIP Code in the space below.
 Complete items 1, 2, and 3 on the reverse.
 Attach to front of article if space permits, otherwise affix to back of article.
 Endorse article "Return Receipt Requested" adjacent to number.

UNITED STATES POSTAL SERVICE
 OFFICIAL BUSINESS

- STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE, CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES.** (see front)
- If you want this receipt postmarked, stick the gummed stub on the left portion of the address, and in hand it to your rural carrier. (no extra charge)
 - If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, date, detach and retain the receipt, and mail the article.
 - If you want a return receipt, write the certified-mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends. If space permits, otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
 - If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
 - Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in Item 1 of Form 3811.
 - Save this receipt and present it if you make inquiry.



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 29, 1981

#0367253

REGISTERED RETURN RECEIPT REQUESTED

Mr. Dean Bray
Consolidation Coal Company
P. O. Box 527
Emery, Utah 84522

RE: Modification to NOV #1
(81-2-16-2)
Consolidation Coal Company
Emery Deep Mine
ACT/O15/O15
Emery County, Utah

Dear Mr. Bray:

This letter accompanies a modification form that extends the abatement deadline of NOV #1 (81-2-16-2) to January 15, 1982, with the additional option of prompt reclamation of the site in accordance with the approved plan as you have requested. I believe that this is a more viable option. In reclaiming the area now, the fill material can be stockpiled in a more stable and protected manner within the permitted disturbed area and the entire blasting area stabilized during the more favorable time of year.

Sally Kefer-Portle has informed me of some misunderstandings resulting from the conditions of the Christiansen Wash repair approval and this violation. Our office is determined to assist your operation with feasible construction plans compliant with adequate environmental protection and reclamation. Please don't hesitate to call me with your questions or concerns regarding plans for reclaiming the blasting area.

Sincerely,

SANDY PRUITT
RECLAMATION OFFICER

Enclosure

SP/btb



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
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E. STEELE McINTYRE

CLEON B. FEIGHT
Director

Modification of Notice or Order

To the Following Permittee or Operator:

Name Consolidation Coal Co. - Emery Deep Mine
Mailing Address PO Box 527 Emery UT 84522
State Permit No. ACT/015/015

Utah Coal Mining and Reclamation Act, Section 40-10-1 et. seq., Utah Code Annotated (1953):

Notice of Violation No. N 81-2-16-281 2 dated 12/16, 1981
Y TV

Cessation Order No. C _____ Y TV dated _____, 19____.

Violation No. 1 is modified as follows: Remedial Action = Also include - OR stabilize all
The reason for this modification are as follows: disturbed areas & the spoil pile as specified in the
Violation No. _____ is modified as follows: approved plan dated 9/25/81 & UMC 817.101. Implement
The reasons for this modification are as follows: erosion control measures until vegetation is well established
Violation No. _____ is modified as follows: Deadline: Extend 2 weeks to 1/15/82.
The reasons for this modification are as follows: operator changed original plans and requested
extension past holidays.

Date of Service 12/29/81 _____
Signature of Authorized Representative [Signature]

Time of Service or Mailing 10:00 X a.m. _____ p.m. _____
Name and I.D. No. [Signature] #2

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS & MINING

1588 West North Temple
Salt Lake City, Utah 84116
Telephone: (801) 533-5771

NOTICE OF VIOLATION NO.N

From the STATE OF UTAH
To the Following Permittee or Operator:

NAME Consolidation Coal Company

MINE EMERY DEEP MINE SURFACE UNDERGROUND OTHER _____

CATEGORY OF OWNERSHIP: STATE FEDERAL FEE MIXED

OSM MINE NO. _____ STATE PERMIT NO. ACT/015/015 MSHA I.D. NO. _____

COUNTY AND STATE EMERY COUNTY, UTAH TELEPHONE 286-2301

MAILING ADDRESS: P.O. BOX 527 EMERY, UT 84522

DATE OF INSPECTION 12-16-81, 19 81

TIME OF INSPECTION: FROM 100 a.m. to 6:00 a.m.
 p.m. to p.m.

NAME OF OPERATOR (if other than permittee) _____

MAILING ADDRESS: _____

Under the authority of the Utah Coal Mining and Reclamation Act of 1979 (Sec. 40-10-1 et seq., Utah Code Annotated, 1953), the undersigned authorized representative of the Director and the Division of Oil, Gas & Mining has conducted an inspection of the above mine on the above date and has found violation(s) of the Act, the regulations or required permit condition(s) listed in the attachment(s). This Notice constitutes a separate Notice of Violation for each violation listed.

You must abate each of these violations within the designated abatement time. You are responsible for doing all work in a safe and workmanlike manner.

The undersigned representative finds that cessation of mining is is not expressly or in practical effect required by this Notice. For this purpose "Mining" means extracting coal from the earth or a waste pile and transporting it within or from the minesite.

This Notice shall remain in effect until it expires as provided on the reverse or is modified, terminated or vacated by written notice of an authorized representative of the Director of the Division of Oil, Gas & Mining. The time for abatement may be extended by the authorized representative for good cause, if a request is made within a reasonable time before the end of the abatement period.

Date of Service December 16 1981 _____
SIGNATURE OF AUTHORIZED REPRESENTATIVE [Signature]

Time of Service 5: a.m. p.m. _____
NAME AND I. D. NO. [Signature]

Person Servied with Notice Dean Bray _____
PRINT NAME AND TITLE MIKE ENGINEER

Signature Dean C. Bray

IMPORTANT — PLEASE READ REVERSE OF THIS PAGE



STATE OF UTAH

Notice of Violation No. N 81-2-16-2

Violation No. 1 of 2

Nature of the Violation

Operating without a permit.
Failure to ~~mine in a~~ conduct mining activities in accordance with an approved plan.

Provision(s) of the Regulations, Act, or Permit Violated

UCA 1953 40-10-19 (1)
UMC 771.19

Portion of the Operation to which Notice Applies

Area above the auxillary coal stockpile/non coal waste storage area which is proposed for portal development into the I seam and approved for attainment of rip rap material September 15, 1981.

Remedial Action Required (including interim steps, if any)

Submit plans to the Division that are complete and adequately address the proposed mining activity, performance standards and reclamation upon completion.
Implement plans only upon approval.

Time for Abatement (including time for interim steps, if any)

2 weeks, no later than December 30, 1981.



STATE OF UTAH

Notice of Violation No. N 81-2-16-2

Violation No. 2 of 2

Nature of the Violation

Failure to maintain sediment control structures to minimize erosion and prevent to the extent possible additional contributions of sediment to stream flow or runoff outside the permit area.

Provision(s) of the Regulations, Act, or Permit Violated

UMC 817.170(a),(b)

UMC 817.45

UCA 1953 40-10-18 (2)(i)(ii)

Stipulation in DOGM variance approval dated 8/20/81 (releasing operator from Class III road design.)

Portion of the Operation to which Notice Applies

Road leading to the mine water treatment pond.

Remedial Action Required (including interim steps, if any)

Replace straw bales where needed along road and prevent undercutting and bypass of the dikes. Implement erosion control measures as necessary

Time for Abatement (including time for interim steps, if any)

2 weeks, no later than December 30, 1981.



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

Vacation or Termination of Notice or Order

To the Following Permittee or Operator:

Name Consolidation Coal Co. - Emery Deep Mine

Mailing Address PO Box 527 Emery UT 84522

State Permit No. ACT/015/015

Utah Coal Mining and Reclamation Act, Section 40-10-1 et. seq., Utah Code Annotated (1953):

Notice of Violation No. N 81-2-16-2 81 2 dated 12/16, 1981.
Y TV

Cessation Order No. C _____ Y TV dated _____, 19____.

Violation No. 1 is hereby X Terminated effective 1/13/82 _____ Vacated because:

Violation No. _____ is hereby _____ Terminated _____ Vacated because:

Violation No. _____ is hereby _____ Terminated _____ Vacated because:

Date of Service 2/2/82 _____
Signature of Authorized Representative [Signature]

Time of Service or Mailing 1:30 _____ a.m. X p.m. _____
Name and I.D. No [Signature] #2

MAR 27 1981

DIVISION OF
OIL, GAS & MINING



Consolidation Coal Company

Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

File ACT/OAS/OIS
Route Copy
Any comments?
Sim

March 27, 1981

Mr. Jim Smith
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

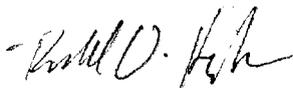
As you know, a recent joint inspection of the Emery Mine by OGM and OSM revealed several noncompliance items. Most of these problems have been abated with the exception of the evaporation lagoon and the road to the mine discharge sedimentation pond. The road has been equipped with temporary erosion control measures; to date, nothing has been done on the evaporation lagoon.

The mining permit application submitted to your office on March 23, 1981 has addressed these issues; however, we understand that the Division desires this work to be completed as soon as possible. Therefore, Consol will submit plans to Oil, Gas, and Mining for the construction of a new evaporation lagoon and the reconstruction of three of the area roads under a separate cover.

This information should arrive in your office no later than May 1, 1981. It is hoped that work may begin on these projects in the third quarter of 1981.

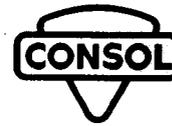
Please contact me if you have any questions.

Sincerely,


Ronald O. Hughes
Senior Engineer

ROH/km

cc: B. Dunn
J. Higgins
J. Thompson
R. Thompson



Consolidation Coal Company
Western Region
Emery Mine
P. O. Box 527
Emery, Utah 48522

April 14, 1981

~~Route~~ File ACT/015/015
copy to Sandy

Mr. Thomas L. Portle
Reclamation Officer
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: Access road to water tank and
PCB storage area.

Dear Mr. Portle:

This letter is in reference to your inquiry regarding ownership of the access road to the water tank and CONSOL'S intent as to upgrading the road to meet performance standards.

Plans for reconstruction of the roadway will be submitted to the Division for approval no later than May 1, 1981. (Reference attached copy of correspondence with Jim Smith, dated March 27, 1981.)

Please contact me if you have any question or require additional information regarding this matter, prior to May 1, 1981.

Sincerely,

A handwritten signature in cursive script that reads "Ronald G. Thompson".

Ronald G. Thompson
Mine Engineer

RECEIVED

APR 16 1981

DIVISION OF
OIL, GAS & MINING



Consolidation Coal Company

Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

March 27, 1981

Mr. Jim Smith
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

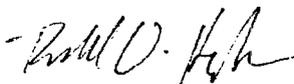
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This information should arrive in your office no later than May 1, 1981. It is hoped that work may begin on these projects in the third quarter of 1981.

Please contact me if you have any questions.

Sincerely,


Ronald O. Hughes
Senior Engineer

ROH/km

cc: B. Dunn
J. Higgins
J. Thompson

A rectangular stamp with the name "R. Thompson" visible, which has been partially obscured by a black redaction mark.

File ACT/015/015



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
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CHARLES R. HENDERSON
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C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

CLEON B. FEIGHT
Director

June 2, 1981

M E M O R A N D U M
* * * * *

TO: Wayne
FROM: Lee *[Signature]*
SUBJECT: Request for a Variance, May 19, 1981

I believe that the only conditions for a variance would be that:

- (1) The applicant is currently arranging the drilling of the 250 foot well
- (2) The applicant agrees to have the RO Pond brought into compliance with regard to its intended future use or reclaimed at a certain point in time. (1 year)?
- (3) In one breath the R/O lagoon is an integral part of the R/O system, Item (paragraph) and the R/O system will remain as back up, item 4, and the R/O unit will be reclaimed (Is the pond to be reclaimed shortly?)

As far as the ~~R/O~~ ponds, they must meet Class III, performance standards, if not Class II.

LCS/bb



File Act/015/015

Copy to [unclear] for [unclear] consolidation response.

Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80112
(303) 770-1600

MAY 21 1981

DIVISION OF
OIL, GAS & MINING

May 19, 1981

507
18618 NNC

Mr. Jim Smith
Coordinator of Mined Land Development
State Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

After conversing with Wayne Hedberg of your office about the water treatment system and various roads associated with the Emery Mine, Consol wishes to request temporary variances from the permanent performance standards as outlined herein.

Consol requests a temporary variance to use the existing reverse osmosis (R/O) evaporation lagoon, which is an integral part of the R/O water treatment system, until a domestic water well may be installed. The reasons for this request are, 1) the cost of bringing the existing lagoon into compliance is prohibitively high, and 2) recent hydrologic data indicates that a 250 foot well would provide better domestic water at a greatly reduced cost.

The following are answers to some concerns expressed by Wayne Hedberg relating to the lagoon and well:

1. After investigating Consol's water rights in the area, it appears that a change of location application will have to be submitted to the State Engineer's Office. The application approval process will require two to three months. An additional month will probably be required to install the well.
2. Since Consol plans to drill the well within the present surface disturbance area of the Emery Mine, there will be no further disturbances outside the currently affected area.
3. At mine closing, Consol will probably seal the well and reclaim the site, unless circumstances at the time of mine closing should dictate otherwise.
4. The actual reverse osmosis machinery will be left intact should it be required for future water treatment.

5. The evaporation lagoon will be reclaimed as outlined in our permit application. Some of the berm material will be used to construct a flood wall around the secondary mine intake portal located within the present surface disturbance area.
6. The effect of shutting down the R/O system will slightly increase the flow to the mine discharge sedimentation pond. However, this flow will constitute only a 1.9% increase over the present flow and will, therefore, be insignificant.
7. If for any reason a well may not be used to replace the R/O system, Consol will go ahead with plans to reconstruct the lagoon.

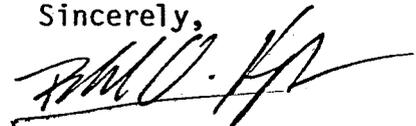
Consol would also like to request temporary variances for two of the mine roads. Presently there are three roads within the permit area which may be considered Class II. They are, 1) the access road to the water tank, 2) the access road to the sedimentation pond, and 3) the access road to the borehole pump. The tank and sedimentation pond roads will be used in some fashion as part of our proposed preparation plant facility. Plans for the plant are not yet finalized. When they are, they will be submitted to OGM as an addition to our permit application. Therefore, Consol is requesting permission to leave these two roads as they are until plans are available for their reconstruction as related to the preparation plant. Temporary erosion and drainage control have been installed on both roads as requested by your inspectors.

Plans for the reconstruction of the borehole pump road are included in our permit application, but we will submit another construction permit application under separate cover as soon as possible. Once your office has approved the plans for the pump road reconstruction, work will begin on that road, hopefully by August 1981.

Plans for the preparation facility should be complete by August 1981, and will be submitted shortly thereafter.

If you have need of further information for these requests, please let me know.

Sincerely,



Ronald O. Hughes
Senior Engineer

ROH/dmk

All could be class III



③ File ACT/015/015

Copy to Wayne
Joe and Lee for
"consolidated"
response. Jim

Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80112
(303) 770-1600

MAY 23 1981

DIVISION OF
OIL, GAS & MINING

May 19, 1981

Mr. Jim Smith
Coordinator of Mined Land Development
State Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

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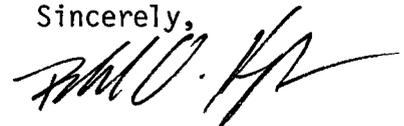
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Plans for the preparation facility should be complete by August 1981, and will be submitted shortly thereafter.

If you have need of further information for these requests, please let me know.

Sincerely,



Ronald O. Hughes
Senior Engineer

ROH/dmk



Consolidation Coal Company

Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

September 1, 1981

File ACT/015/015
Copy to Sally
SEP 01 1981
SEP 02 1981

Mr. Jim Smith
Division of Oil, Gas, and Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116

RECEIVED
SEP 02 1981

DIVISION OF
OIL, GAS & MINING

Dear Mr. Smith:

This letter accompanies Consolidation Coal Company's revision to their State Program Permit application submitted March 23, 1981. The revision is for a coal preparation facility at the Emery Mine. The attached information amends and updates the application document presently on file with the Division. Please find attached, seven copies of the following:

1. Volume 11, Chapter 15.0, Coal Preparation Plant (Narrative and Design).
2. Volume 12, Chapter 15.0, Maps and Design Drawings.
3. Supplemental and replacement pages to be inserted in the original application document where appropriate.

I have prepared six copies for your office and one extra copy for the Department of Health. This extra copy represents Consol's "Notice of Intent to Build" to the Department of Health. In addition, seven copies will be submitted to Region V OSM in Denver, one copy to Emery County in Castle Dale, and one copy will be on file at the Emery Mine office.

We have tried to make the information as clear and descriptive as possible. In order to minimize duplication of information, references have been made to Sections and Chapters contained in the original March 23 submittal.

If you have any questions about any of the information contained herein, please do not hesitate to call.

Sincerely,

James C. Thompson
Permit Coordinator

JCT/mcf
Attachments
cc: J. Nadolski, OSM
Emery County
J. Badovinac, Emery Mine



Consolidation Coal Company

Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

September 11, 1981

Ms. Sally Kefer
Reclamation Hydrologist
Division of Oil, Gas, and Mining
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116

RECEIVED
SEP 15 1981

DIVISION OF
OIL, GAS & MINING

Dear Ms. Kefer:

This letter accompanies Consolidation Coal Company's proposed construction permit application to upgrade the existing access road to the borehole pump. Reconstruction work will begin on this structure as soon as your office has approved the design plan.

Design plans for the reconstruction of the tank and sedimentation pond access roads are included in the preparation plant permit application submitted on September 1, 1981. The tank road will be used to access the preparation plant while the sedimentation pond road will provide access to the waste disposal area for coarse refuse haulage trucks. Plans for these two roads are described in Volume 11, section 15.3.2.2.

The above information supercedes that found in section 13.3.4 of the Emery Permit Application.

If you have any questions about any information contained herein, please contact me at the above number.

Sincerely,

A handwritten signature in cursive script that reads "Mary Jo Ormiston".

Mary Jo Ormiston
Civil Engineer

MJO/mcf
Attachment
cc: Ron Thompson



Consolidation Coal Company
Western Region
Emery Mine
P. O. Box 527
Emery, Utah 48522

JIM

OCT 01 1981

September 25, 1981

RECEIVED
SEP 28 1981

DIVISION OF
OIL, GAS & MINING

Mr. James W. Smith, Jr.
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

Attached are plans for the emergency repair work we intend to do at the Emery Deep Mine following our major flood on September 8, 1981. We feel that this work will provide a more stable stream channel, particularly for Christiansen Wash. We appreciate your expeditious site inspection and approval for this work, and trust that this plan satisfies the stipulations in your conditional approval letter dated September 15, 1981.

Sincerely,

David W. Jones

David W. Jones
Project Engineer

Lynn, 10-1
Call from Dave
on 9-30. Unstable
slope conditions
near riprap borrow
area necessitated
additional blasting.
Verbal approval. Jim

RECEIVED
MARCH 28 1981

DIVISION OF
OIL, GAS & MINING

General Description of Work

Consolidation Coal Company intends to repair the surface water control berms damaged by recent heavy flooding of Quitchupah Creek and Christiansen Wash.

The heaviest flood damage was done on Christiansen Wash. The berm was damaged from the fan to the confluence of the two creeks. The berm will be rebuilt and heavily riprapped. In an effort to further protect this stream bank, several large boulders which obstruct the flow of water in the stream will be removed. In addition, a short stretch of stream (approximately 200') near the fan will be straightened to prevent water from scouring beneath the road in this area. The irrigation system for this berm will not be repaired for use since the bank will be riprapped rather than vegetated to prevent erosion.

Along Quitchupah Creek, minor damage was done to the berm. The irrigation system will be repaired, the berm rebuilt to its original size, and riprap placed in the area that failed during the flood. The wingwalls of the bridge crossing Quitchupah Creek will be riprapped to prevent further erosion in that area.

In addition to the above work, CONSOL intends at this time to construct a flood prevention berm around the air intake portal as located on the map. This will be constructed to prevent flooding of the mine during a major storm.

Method of Construction

Berms will be built by backfilling the washed out areas with local material, and shaped with a dozer. Riprap will be blasted as discussed below, loaded by front end loader, hauled by truck, and placed on the berms by a dozer, and if necessary, a backhoe.

Riprap Acquisition Area

Riprap for this project will be obtained from the area south of Quitchupah Creek designated as the new portal area on Plate 3-2 of the permanent mine plan submitted to Oil, Gas, & Mining on March 23, 1981. The rock will be drilled and blasted by the contractor, loaded, & hauled to the area of placement. Contractor's blasting procedures will conform with UMC 817.61-68. Prior to any blasting in

the new portal area, the explosives magazine currently near there will be re-located.

Areas in which blasting is performed will be stabilized at the end of construction with a maximum final rock slope at 1v:0.25h, and the maximum final slope in unconsolidated material at 1v:1.5h. Any disturbed soil will be seeded as required in UMC 817.111.

CONSOL does not intend to penetrate the gypsiferous shale overlying the coal seam during this activity.

Runoff Control

Runoff from the new portal area where riprap will be obtained will run naturally to the sedimentation pond on the south side of Quitchupah Creek. Minor sediment runoff will be experienced from the creek side of the rebuilt berms, but should be less of a problem than it currently is following placement of riprap.

Protection of Riparian Vegetation

The riparian vegetation that survived the erosive effects of the flood will be protected to the greatest extent possible. Virtually no vegetation exists on the lower stretch of Christiansen Wash where the most extensive work is to be done. The contractor has been instructed to protect existing vegetation.

Final Reclamation

The water control berms lining the creeks will be reclaimed as stated in Section 3.5.3.3 of the permanent mine plan submitted March 23, 1981. CONSOL requests permission to leave the riprap in place on the stream banks following final reclamation to maintain a permanently stable channel.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Office of the District Mining Supervisor
Conservation Division
20th Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

File ACT/015/015
IN REPLY REFER TO:
Copy to Sally &
Lynn
JIM
OCT 07 1981

October 2, 1981

MEMORANDUM

TO: Regional Director, U.S. Forest Service

FROM: District Mining Supervisor, Conservation Division,
Salt Lake City

SUBJECT: Consolidation Coal Company,inery mine,
Inery County, Utah, revision and supplements
to mining and reclamation plan, State Permit
Application

RECEIVED
OCT 07 1981

DIVISION OF
OIL, GAS & MINING

The subject material, received from you on September 18, 1981, consisting of volumes 11 and 12 and a bundle of supplement and replacement pages and maps for the original submittal, has been reviewed for conformance with Federal regulations 30 CFR 211.10(c) dated May 17, 1976, as amended August 22, 1978, and for compliance to the comments in our letter dated June 22, 1981. The June 22, 1981, letter is the review for completeness and technical adequacy of the subject mining and reclamation plan (10 volumes) which was forwarded by you and received in this office on March 30, 1981. The following are our comments on the subject submittal:

1. New volumes 11 and 12 of the subject submittal do not contain any material relating directly to the responsibilities of the Geological Survey, but they will become part of a 12-volume mining and reclamation plan. These volumes discuss the proposed coal preparation plant to be constructed for improving coal quality and to accommodate mine expansion. Even though not stated as such, a coal cleaning plant also has the potential of enhancing a greater recovery of the resource.

2. The subject supplement and replacement material has also been inserted into the proper places of the original 10-volume submittal. This material also does not contain any thing that relates directly to the responsibilities of the Geological Survey.

1. The subject submittal is Consolidation Coal Company's revision to its State Program Permit application (10 volumes) submitted March 23, 1981. This submittal does not address the comments in the completeness and technical adequacy review conducted by the USGS-CO and transmitted to you by letter dated June 22, 1981, copies of which were mailed directly to USGS and Consolidation Coal Company. These comments must be addressed before we can concur with the mining plan.

Jackson W. Noiffitt

cc: Denver
Mr. James Smith, USGS ✓
Consol
-seeen (2)



Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80112
(303) 770-1600

JIM

OCT 14 1981

October 8, 1981

Ms. Sally Kefer
Utah Department of Natural Resources
Division of Oil, Gas, and Mining
1588 W. North Temple
Salt Lake City, UT 84416

Dear Ms. Kefer:

Enclosed please find six replacement plates for Plate 15-1C, "Geology and Hydrology of Refuse Disposal Area", whose legend was submitted in error as part of our Emery Underground Mine Permit (Vol. 12 - Chap. 15).

Please discard the existing Plates 15-1C and replace them with the new.

Sincerely,

Louis Meschede

Louis Meschede
Hydrologist

LM/bp

File Act/05/015
Copy to Sally



JIM

October 8, 1981

Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80112
(303) 770-1600

OCT 19 1981

State of Utah
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, UT

OCT 19 1981

DIVISION OF
OIL, GAS & MINING

ATTN: Jim Smith

Dear Jim:

Consolidation Coal Company requests permission to construct a bathhouse and associated power transmission line at our Emery Mine. Attached are three copies of location prints for the bathhouse and power line, as well as a narrative addressing these proposed installations.

We would appreciate your review of this material. If you have any questions, please contact me.

Sincerely,

for 
David W. Jones
Civil Engineer

DWJ/bap

Attachments

cc: D. Bray
R. Holbrook
K. Seaton

BATHHOUSE

Site Location

The proposed bathhouse is to be located southeast of the existing mine facilities area as shown on the plan. The site has at times been used as a coal storage area, but is presently vacant.

Surface Water Control

The location is in a controlled drainage area and will not disturb any drainage patterns, as shown on the plan.

Topsoil

Any topsoil that ever existed at the site has been contaminated by having coal stockpiled on it. This layer of coal refuse will be removed and spread in the south yard area (the drainage controlled area south of Quitchupah Creek) where a stockpile is occasionally stored.

Reclamation

The bathhouse building will be reclaimed at mine closing along with the existing mine buildings. Please refer to the plan included in the repermitting application submitted in March, 1981.

POWER TRANSMISSION LINE

Purpose

This 8 KV class overhead line will bring power from the main substation to the bathhouse.

Construction Techniques

The line will be installed by an electrical contractor. Sockets for the poles will be augered in soil, and either drilled with rock bits, blasted, or jackhammered in rock, depending on the contractor's preference. Construction will take approximately two weeks.

Impacts

Impacts of installing this line will be very slight. Vehicles will reach the line location via the existing access road leading to to the mine water tank.

The only disturbance to the land will be from the trucks driving from the access road to the individual pole locations. The furthest distance from the road to a pole, the pole at the north rim of the canyon, will be 400 feet.

Raptor Protection

The power line will be designed and constructed in compliance with the raptor protection design requirements of USDA, OSM and OGM regulations.

File ACT/015/015
Copy letter
w/attach to
Sally
Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80112
(303) 770-1600
JIM

OCT 15 1981

October 12, 1981

RECEIVED
OCT 15 1981

Mr. James W. Smith, Jr.
Coordinator of Mined Land Development
State of Utah
Department of National Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

DIVISION OF
OIL, GAS & MINING

Re: Emery Mine - Borehole Pump
Access Road Reconstruction Plan

Dear Mr. Smith:

In response to your letter dated October 1, 1981, I am submitting supplemental information regarding the Borehole Pump access road reconstruction plan.

Enclosed are copies of the road upgrade construction specifications, revised Plate 3, and an additional plate, Plate 4. The stipulations have been addressed as follows:

Stipulation 9-23-1

a. The bid proposals will be returned to Consol no later than November 1, 1981. Once the contractor is chosen, and upon the Divisions' approval of the reclamation/revegetation plan, the road upgrade construction will begin. It is expected that this small job will take no more than a month to complete. The revegetation will begin immediately following earthwork removal, stabilization and grading. If all goes as planned, the first available season for seeding will be mid-to end of November, 1981.

b., c. and d. Refer to the attached report, section 3, Reclamation - Revegetation. The Borehole Pump facility was originally built prior to 1975, the year Consol first acquired interest in the Emery Mine facility. The topsoil was not removed and stockpiled for this pre-law structure; therefore, there is no topsoil available for reclamation. The revegetation process has been planned with this in mind, and the seeding mixtures chosen accordingly.

Stipulation 9-23-2

Enclosed is a revised map #3 showing the location of the excavated road material stockpile area. Refer to the attached report, section 1, Excavation for stabilization details.

Stipulation 9-23-3

The Borehole Pump access road will be left in place until the final reclamation phase of the Emery Mine. When no longer needed, the road will be removed and regraded. The surfacing material will be removed and disposed of prior to regrading. The material that was stockpiled adjacent to the structure will be used as fill. The road follows the original terrain and will be regraded to a topography consistent with unaffected lands. The predisturbance drainage system will be restored. The revegetation plan will be similar to that submitted for this project.

Stipulation 9-23-4

The road site runs primarily through the "annual forb community." Successful revegetation will be considered accomplished when the cover and production of the reclaimed site has reached 6% cover and can produce 183 lbs/acre of dry forage matter. These cover and production values are taken from the premining vegetation studies performed on the "annual forb communities" within the permit boundary. Refer to chapter 9 of volume 6 in the Emery Deep Mine Permit for data.

Stipulation 9-23-5

1. The turn-around area has been located east of a small natural channel in the vicinity to avoid interference with the drainage. Small drainage ditches have been designed to collect and convey the surface runoff into the existing pattern away from the turn-around area. If it becomes apparent that the location of the facility is interfering with the natural drainage, measures will be taken to correct the situation.
2. Enclosed is a profile of the road showing all areas of cut and fill. Refer to Plate #4.
3. Once the upgrade design is completed and the access road has been stabilized and drainage provided, maintenance should be minor. The road will be inspected regularly, and any disturbance or inadequacy such as erosion or poor drainage will be corrected immediately.
4. The road is used by four-wheel drive vehicles to access the mine dewatering pump approximately once a week for inspection. During the summer months, the water truck fills its tank every day at this facility. Occasionally, the access road is used by site drillers. The

structural section and surfacing material was designed to soundly support the maximum weight of the 25-ton driller's water trucks.

If you have any questions, please contact me at the above number.

Sincerely,

A handwritten signature in black ink that reads "Mary Jo Ormiston". The signature is written in a cursive style with a large, looped initial "M".

Mary Jo Ormiston
Civil Engineer

MJO/kdb
Enclosures

cc: J. Higgins
C. Muha
R. Thompson

RECEIVED

OCT 15 1901

**DIVISION OF
OIL, GAS & MINING**

EMERY MINE

BOREHOLE PUMP ACCESS ROAD RECONSTRUCTION

EMERY MINE
BOREHOLE PUMP ACCESS ROAD RECONSTRUCTION

Scope

The work to be performed is defined as the reconstruction of the existing borehole pump facility access road, illustrated on Plate 1. All construction will be done in accordance with the construction specifications. Design drawings are included in this document.

BOREHOLE PUMP FACILITY ACCESS ROAD
ROAD UPGRADE DESIGN

Introduction

The existing access road to the borehole pump facility at Consolidation Coal Company's Emery Mine is shown on Plate 2. The plan to upgrade the road includes stabilization, drainage, and reclamation.

Design Plan Details

This section describes the engineering design details of the proposed reconstruction plan illustrated on Plate 3.

1. Stabilization:

The portion of the roadway between stations 0 and 9+00 will be stabilized in the following manner:

a. Excavation.

The existing roadway and proposed turnaround area will first be excavated to a minimum depth of 20 inches, to provide for a stable sub-base. The nature of the existing material, decomposed shale and clay, and the deteriorated condition of the surface indicate necessary removal of the original material.

The excavated material will be stockpiled in the location shown on Plate 3 to a depth of approximately 5 feet and used as replacement fill at the time of removal of the road during the reclamation phase of the Emery Mine. The site should be seeded to the following mix:

<u>Species</u>	<u>lbs of PLS*</u>	<u>PLS*/sq. ft.</u>
Standard crested wheatgrass	1	20
Western wheatgrass	1.5	22
Four-wing saltbush	<u>1.5</u>	<u>12</u>
TOTALS	4	54

* Pure live seeds

No topsoil is available for stockpiling.

b. Placement of Subbase.

14 inches of pit run gravel will be placed and compacted to provide a stable subbase for the surface material.

c. Placement of Surface Course.

6 inches of crushed aggregate will be placed and compacted for surface course. The surface will slope at 3/8 inch per foot from the centerline to the shoulder to provide drainage off the road.

Refer to the typical structural section illustrated on Plate 3.

2. Drainage:

Drainage ditches will be constructed on each side of this road to carry water off the road surface, and keep water from adjacent areas from flowing into the roadway. Water entering the ditches north of station 6+50 will flow generally north along the road before re-entering the normal drainage. Water entering the ditches south of station 6+50 will flow south toward the paved road. The pump road joins the paved road at such an elevation that water in the pump road ditches will flow away parallel to the paved road toward natural drainage courses in both directions. Therefore, no culvert is necessary under the pump road near the paved road.

As the plan view shows, very little water will enter the road ditches from areas adjacent to the road. Therefore, an 18" V-ditch will be capable of handling the water for this road.

3. Reclamation - Revegetation:

The existing road from stations 9+00 through 14+72 will be reclaimed. Since earth materials were not moved to build this structure initially, and no road surfacing work was provided, reclamation will be rather basic.

The site, approximately 0.19 acres, must be disked up and harrowed to prepare the seedbed. Following this the site should be seeded to the following mix:

<u>Species</u>	<u>lbs of PLS*</u>	<u>PLS*/sq. ft.</u>
Standard crested wheatgrass	1	20
Western wheatgrass	1.5	22
Four-wing saltbush	<u>1.5</u>	<u>12</u>
TOTALS	4	54

* Pure live seeds

Seeding should be performed with a grass seed drill with disc furrow openers and press or packing wheels. If press wheels are not available on the drill, a corrugated roller may be substituted for firming the seedbed after seeding.

No chemical soil amendments, irrigation, or herbicides will be necessary.

GENERAL SPECIFICATIONS

Site Work

Subsurface Exploration - The contractor is ultimately responsible for all deductions and conclusions concerning the nature, moisture content, texture of material, yield of suitable materials, the difficulties of making excavations and removing oversize material.

Clearing and Topsoil Removal - All grubbing, clearing and removal of topsoil shall be done by contractor.

Earthwork

Site Grading - Do all cutting, filling, backfilling and grading as required to bring the entire project area to subgrade as shown on the drawings. Upon completion of the project grades will be free of erosion, gullies or excessive rills as determined by the engineer.

All excavations shall be kept free from water.

Backfill and compaction shall be trashfree material in 6" lifts. Care shall be taken to prevent any damage to any pipe structure.

Waste Material Disposal - Remove from the site and dispose of all debris and all excavated materials not suitable or needed for fill.

No backfill material shall be frozen or placed against frozen material.

The cost for transporting excavated materials from excavations to disposal areas or to points of final use, including stockpiling and rehandling, if required, and of disposing of all excavated materials that are wasted, as provided in this section, shall be included in the applicable unit prices per cubic yard bid in the schedule for excavation.

All cavities, depressions, and irregularities, either existing or resulting from removal of rock fragments found within the area are to be filled and compacted to the appropriate density.

No allowance will be made in measurement for payment for settlement, shrinkage, and/or consolidation of the foundation.

It is not anticipated that there will be any rock excavation, but if rock excavation is encountered the definition of rock will be as follows:

Rock - A sound and solid mass, layer, or ledge of mineral matter in place and of such hardness and texture that it cannot be effectively loosened or broken by ripping in a single pass by a late model tractor mounted hydraulic ripper equipped with one point. The crawler tractor shall be rated between 210-240 net flywheel horsepower and will operate in low gear.

At the beginning of each segment of work in which the fill has been sealed to protect the fill, the contractor will either harrow, scarify, or work the surface in a suitable manner to insure the bonding of the next series of lifts.

Measurement and payment of cut, borrow, and fill areas shall be determined by survey or by appropriate aerial photography except as otherwise noted in this document.

The surface material shall be furnished and installed by contractor.

All measurements and payments shall be made on a cubic yard basis.

October 29, 1981

Memo to Coal File:

RE: Emery Deep Mine
Consolidation Coal Co.
ACT/015/015
Emery County, Utah

On October 16, 1981, Mr. Louis Meschede of Consolidation Coal Company in Denver, called Sandy Pruitt to inform this office of repair work needed at water monitoring site #3 in Quitchupah Creek following flooding on September 8, 1981. Consolidation Coal Company's intent to replace and relocate a Parshall flume and stilling well were mentioned in a letter to Sally Kefer dated October 6, 1981.

Dave Jones, surface engineer at the Emery Mine, was contacted to determine what surface effects would result from the repair activity. Contractors planned to access to the construction site down a old ramp used for bridge construction. Water in Quitchupah Creek will need to be diverted for approximately two days to allow construction of concrete forms. As this activity was considered casual maintenance of a water monitoring facility, Mr. Meschede was requested to submit plans required in UMC 784.24 and meet performance standards 817.170-.176 for the temporary Class III access.

Mr. Meschede called again on Monday, October 19, to inform this Division that Quitchupah Creek had been diverted into a pre-existing channel to the east and that contractors were waiting for the surface to dry up. On October 20, Mr. Meschede called to inform the Division that construction was delayed due to high runoff flows up to 5 cfs. Channel flow was re-established but the diversion channel was excessively eroded from the high flow and repair would be needed. An oversized culvert was placed in Quitchupah Creek for access to the diversion for backfilling. Consolidation Coal plans to reclaim this area along with the access ramp but will need to modify diversion plans when work is re-initiated by using a culverted diversion or by pumping the water around the site. Mr. Meschede will immediately notify the Division when runoff flow decreases to a manageable rate and construction activities can be re-initiated.

SANDY PRUITT 
RECLAMATION OFFICER

cc: Tom Ehmett, OSM

SP/btm

SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
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(801) 533-5771

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HERM OLSEN

October 16, 1981

Mr. Dee F. Hansen, Director
Division of Water Rights
1636 West Temple, Room 220
Salt Lake City, Utah 84116

RE: Mining & Reclamation Plan
Consolidation Coal Company
Prep Plant/Loadout
Facilities
Emery Deep Mine
ACT/015/015
Emery County, Utah

Dear Mr. Hansen:

Enclosed please find the "corrected" Plate 15-1C, "Geology and Hydrology of Refuse Disposal Area".

Please discard the existing Plate 15-1C (Volume 12 - Chapter 15 of the MRP) and replace it with the new.

Sincerely,

JAMES W. SMITH, JR.
COORDINATOR OF MINED
LAND DEVELOPMENT

JWS:LMK:vp

Enclosure



SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
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October 16, 1981

Mr. Dennis Dalley
Division of Health
Division of Environmental Health
150 West North Temple, Room 426
Salt Lake City, Utah 84116

RE: Mining & Reclamation Plan
Consolidation Coal Company
Prep Plant/Loadout
Facilities
Emery Deep Mine
ACT/015/015
Emery County, Utah

Dear Mr. Dalley:

Enclosed please find the "corrected" Plate 15-1C, "Geology and Hydrology" of Refuse Disposal Area".

Please discard the existing Plate 15-1C (Volume 12 - Chapter 15 of the MRP) and replace it with the new.

Sincerely,

JAMES W. SMITH, JR.
COORDINATOR OF MINED
LAND DEVELOPMENT

JWS:LMK:vp

Enclosure

SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
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October 16, 1981

Mr. Douglas F. Day, Director
Division of Wildlife Resources
1596 West North Temple
Salt Lake City, Utah 84116

Attention: Southeastern Regional Office

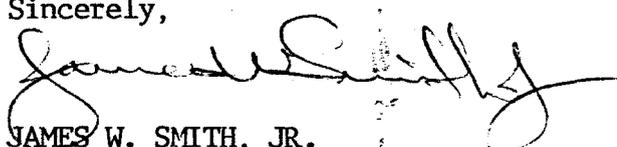
RE: Mining & Reclamation Plan
Consolidation Coal Company
Prep Plant/Loadout
Facilities
Emery Deep Mine
ACT/015/015
Emery County, Utah

Dear Mr. Day:

Enclosed please find the "corrected" Plate 15-1C, "Geology and Hydrology of Refuse Disposal Area".

Please discard the existing Plate 15-1C (Volume 12 - Chapter 15 of the MRP) and replace it with the new.

Sincerely,


JAMES W. SMITH, JR.
COORDINATOR OF MINED
LAND DEVELOPMENT

JWS:LMK:vp

Enclosure



SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

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HERM OLSEN

October 16, 1981

Mr. Melvin T. Smith
State Historic Preservation Officer
Division of State History
307 West 200 South, Suite 100
Salt Lake City, Utah 84101

RE: Mining & Reclamation Plan
Consolidation Coal Company
Prep Plant/Loadout
Facilities
Emery Deep Mine
ACT/015/015
Emery County, Utah

Dear Mr. Smith:

Enclosed please find the "corrected" Plate 15-1C, "Geology and Hydrology of Refuse Disposal Area".

Please discard the existing Plate 15-1C (Volume 12 - Chapter 15 of the MRP) and replace it with the new.

Sincerely,

JAMES W. SMITH, JR.
COORDINATOR OF MINED
LAND DEVELOPMENT

JWS:LMK:vp

Enclosure

JIM

October 26, 1981

Consolidation Coal Company
 Western Region
 2 Inverness Drive East
 Englewood, Colorado 80112
 (303) 770-1800

NOV 04 1981

Mr. James W. Smith, Jr.
 Coordinator of Mined Land Development
 State of Utah
 Department of Natural Resources
 Division of Oil, Gas, and Mining
 1588 West North Temple
 Salt Lake City, UT 84116

DNINW 8 840 710

OCT 30 1981

Dear Mr. Smith:

In reference to your telephone conversation of 10/16/81 with Ms. Mary Jo Ormiston about the status of the Emery Mine Preparation Plant, you indicated that partial approval of the Preparation Plant Application will be issued by late November so that Consol can begin construction of specific items including the Sedimentation Pond, Haul Roads, and Plant Yard Preparation.

In order for Consol to meet the ambitious construction schedule of the plant, it is essential that the Sedimentation Pond construction begin by mid November and be completed this fall. This will allow initiation of plant construction upon receiving full approval of the Preparation Plant Application later this year. Consolidation Coal Company is, therefore, requesting early approval for the construction of the Preparation Plant Sedimentation Pond.

Enclosed are the construction specifications for the Sedimentation Pond. I hope that this additional information will aid in the approval. If you have any questions, or require any additional information, please contact me. Thank you for your cooperation.

Sincerely,

Carl R. Muha, Jr., P.E.
 Preparation and Quality Control Engineer

CRM/bap

cc: J. Elledge
 L. C. Fuller
 J. T. Higgins
 R. Holbrook
 W. A. McConnell
 J. J. Ormiston

GENERAL

The project is generally described as all construction services required to reconstruct the borehole pump access road and to construct the preparation plant sedimentation pond #5 as described within the attached specifications and drawings.

Costs of all materials, equipment, fabrication, supervision, labor, and all other construction services are to be included in the bidder's proposal. Work is to be in accordance with, but not limited to, the requirements of the systems, and the required services described within this document and attachments. The bidder awarded the contract will be responsible for all aspects of the described construction except for those items specifically noted.

Each bidder shall base the costs on the estimated earthwork quantities and the construction of structures as listed on the uniform bid sheets. Actual quantities may vary from this listing but the bidder shall be responsible for the completion of the project in its entirety as described within the scope of work. Actual billing will be based on quantities determined by survey agreed upon by both the contractor and Consol.

The actual construction date is dependent upon approval by the State of Utah, Division of Oil, Gas, and Mining. The contractor shall be expected to begin construction within ten days after notification by Consol. Approval of the documents by O.G.M. is expected by early November.

In case of a discrepancy between the drawings or documents, Consol's designated engineer shall determine the applicable case. It shall be the responsibility of the contractor to bring any discrepancies to the engineer's attention. The contractor assumes all liability for actions taken in such cases if the engineer is not consulted.

Incidental Work shall include any work required to assist utilities installation inasmuch as it affects the contractors work on this project.

Project Closeout shall consist of removing all rubbish to a proper disposal area as designated by the engineer and placing all extra material in Consol's storage area. This incidental work shall not be a pay item and will be included in the charges of this contract.

No payment will be made for yardage or cut outside the lines and dimensions of the project.

Sediment Pond #5

Emery Mine

Consolidation Coal Company

GENERAL Construction SPECIFICATIONS

Site Work

Subsurface Exploration - Subsurface soil descriptions of the embankment borrow areas will be presented to the contractor before the initiation of construction. Tests during embankment construction shall delineate materials used in embankment. The contractor is ultimately responsible for all deductions and conclusions concerning the nature, moisture content, texture of material, yield of suitable materials, the difficulties of making excavations and removing oversize material.

Clearing and Topsoil Removal - All grubbing, clearing and removal of topsoil shall be done by contractor.

Site Preparation

Stripping will be performed in areas of the embankment site and areas to be excavated, as well as the borrow area. All topsoil, debris, excessively wet or soft soil, organic matter, roots and perishable or objectional materials in the foundation soils should be removed. The topsoil will be stockpiled in the area designated, east of the preparation plant facility. The excavated material will be stockpiled separately for reclamation purposes.

Earthwork

Site Grading - Do all cutting, filling, backfilling and grading as required to bring the entire project area to subgrade as shown on the drawings. Upon completion of the project grades will be free of erosion, gullies or excessive rills as determined by the engineer.

All excavations shall be kept free from water.

Backfill and compaction shall be trashfree material in 6" lifts. Care shall be taken to prevent any damage to the drainage blanket of the dam or to any pipe structure.

Compaction should be at least 95% of the maximum dry density from Standard Proctor 7-99 (ASTM 698) procedures as determined in the field. Compaction should be performed within $\pm 3\%$ of the optimum moisture content.

Waste Material Disposal - Remove from the site and dispose of all debris and all excavated materials not suitable or needed for fill.

No backfill material shall be frozen or placed against frozen material.

The cost for transporting excavated materials from excavations to disposal areas or to points of final use, including stockpiling and rehandling, if required, and of disposing of all excavated materials that are wasted, as provided in this section, shall be included in the applicable unit prices per cubic yard bid in the schedule for excavation.

All cavities, depressions, and irregularities, either existing or resulting from removal of rock fragments found within the area are to be filled and compacted to the appropriate density.

No allowance will be made in measurement for payment for settlement, shrinkage, and/or consolidation of the foundation or of the embankment material.

No material larger than 6" will be allowed in the embankment fill unless selectively placed as to the engineer's directions. The distribution and gradation of the materials throughout the dam and road embankments are to be such that the fill will be free from lenses, pockets, streaks, or layers of material differing substantially in texture or gradation from surrounding material.

At the close of each days work or where work is stopped for a period of time, the entire surface of the compacted fill shall be sloped toward the inside grades of not less than one percent nor more than two percent and the surface shall be sealed by several passes of the equipment. If after prolonged rainfall, the top surface is top wet or plastic to work properly, the top material shall be removed to expose firm soil. If dried properly, the material may be used.

No measurement or payment will be made for excavating trenches in the embankment or for refilling the trenches or for the cost of preparing bonding surfaces.

It is not anticipated that there will be any rock excavation, but if rock excavation is encountered the definition of rock will be as follows:

Rock - A sound and solid mass, layer, or ledge of mineral matter in place and of such hardness and texture that it cannot be effectively loosened or broken by ripping in a single pass by a late model tractor mounted hydraulic ripper equipped with one point. The crawler tractor shall be rated between 210-240 net flywheel horsepower and will operate in low gear.

At the beginning of each segment of work in which the fill has been sealed to protect the fill, the contractor will either harrow, scarify, or work the surface in a suitable manner to insure the bonding of the next series of lifts.

Measurement and payment of cut, borrow, and fill areas shall be determined by survey or by appropriate aerial photography except as otherwise noted in this document.

The surfacing material shall be furnished and installed by contractor.

All riprap shall be furnished and installed by the contractor.

All measurements and payments shall be made on a bank cubic yard basis.

Pipe Structures

Pipe structures shall be provided and installed by the contractor.

The contractor shall be responsible for transporting structures to the project.

The structures will be laid to the lines as shown on the drawings.

The pipes shall be laid to the grades as shown on the drawings. If no grade is specified, the pipe shall be laid on a slope slightly greater than the natural grade of the channel.

If excessive or high fills are to be encountered the pipe should be placed at a camber to prevent settlement from creating low spots within the structure.

Excavation and Backfill

Excavations for pipes will generally be made 12" to 24" wider than the structure to allow room for sufficient compactions and to reduce the amount of fill required. The side wall should be vertical to the structure.

Compaction within 16" to 18" of the pipe shall be done by hand held tampers, heavier hand guided tampers may be used for the remainder of the material out to the trench side. If the area is wide and deep, heavier tractor-powered equipment may be used from 24" from the pipe and above the pipe after sufficient cover has been provided to prevent damage.

File ACT/015/015
Copy to Sally
& Lynn

Consolidation Coal Company
Western Region
Emery Mine
P. O. Box 527
Emery, Utah 48522

Oct. 31, 1981

RECEIVED

NOV 03 1981

DIVISION OF
OIL, GAS & MINING

Mr. James W. Smith, Jr.
Division of Oil Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

In reply to your letter of October 14 and pursuant to the Sally Kefer-Dave Jones (Project Engineer) telephone conversation of October 22nd, I trust the following will adequately address the additional information requested by the Division concerning the repair work on Christiansen Wash.

CONSOL will have the contractor smooth the bench left from the riprap acquisition area. By using a bulldozer to smooth the bench, several small ridges will be left from the back-dragging of the blade so as to control excessive runoff erosion. The bench will then be hand seeded with Crested Wheatgrass as it has proven to be the most drought free specie.

Should there be any more questions or problems, please contact myself at the Emery Mine, telephone number (801) 286-2301.

Sincerely,



Dean C. Bray
Emery Mine Engineer

SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
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HERM OLSEN

November 2, 1981

Mr. Steven R. McNeal, P.H.E.
Bureau of Water Pollution Control
Division of Environmental Health
P. O. Box 2500
Salt Lake City, Utah 84101

RE: Construction of
Consolidated Coal's
Sedimentation Pond
ACT/015/015
Emery County, Utah

Dear Steve:

Enclosed is a letter from Consolidated Coal Company requesting an early approval (November 15) to construct a sedimentation pond in the proposed preparation plant area. Construction specifications are also enclosed.

The Division finds no problem with a mid-November approval of the project. Yet, there is a discharge point involved requiring an issuance of a NPDES permit.

I would appreciate your review comments as soon as time allows.

The pond design characteristics may be found in Volumes 11 and 12 of the permit application.

Sincerely,


SALLY KEFER
RECLAMATION HYDROLOGIST

Enclosures

SK/btm

SCOTT M. MATHESON
Governor

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
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HERM OLSEN

November 9, 1981

Ms. Mary Jo Ormiston
Consolidation Coal Company
#2 Inverness Drive East
Englewood, Colorado 80110

RE: Response to Stipulations
Borehole Pump Access Road
Emery Deep Mine
ACT/015/015
Emery County, Utah

Dear Ms. Ormiston:

As per your response to the stipulations of October 1, 1981, concerning the borehole pump access road, the following were not adequately addressed or were lacking:

Stipulation 9-23-1

(b) The seed mix (for permanent reclamation), although in terms of Pure Live Seed, falls short of meeting the performance standards and diversity requirements (UMC 817.111-.116). Consideration should be given to the native perennial grasses for this vegetation type as reported in Table 9-9 of the MRP. (If this is for temporary reclamation, the applicant should address permanent reclamation or make reference to the pertinent sections of the MRP.)

(c) Mulching techniques should either be discussed or justification given for not mulching, as required by UMC 817.114(a).

Stipulation 9-23-5

1. This is adequately addressed provided Consol accepts Stipulation 11-6-1:

The turnaround area will not interfere with any drainage (rather than corrective measures will be taken if it does).

Ms. Mary Jo Ormiston
ACT/015/015
November 9, 1981
Page two

The 60-day time limit for these stipulations expires November 30, 1981. Should problems arise in meeting this deadline, please contact Sally Kefer or Lynn Künzler of my staff.

Sincerely,



JAMES W. SMITH, JR.
COORDINATOR OF MINED
LAND DEVELOPMENT

cc: OSM

JWS/LMK/btm

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

JOHN L. BELL
EDWARD T. BECK
E. STEELE McINTYRE
BOB NORMAN
MARGARET BIRD
HERM OLSEN

November 6, 1981

Mr. Robert Hagen, Acting Director
Office of Surface Mining, Region V
Brooks Towers
1020 Fifteenth Street
Denver, Colorado 80202

Attention: Shirley Lindsay

RE: Consolidated Coal Prep Plant
Sedimentation Pond Approval
ACT/015/015
Emery County, Utah

Dear Mr. Hagen:

Enclosed is a request from Consolidated Coal Company for a separate review of the sedimentation pond located within the prep plant and loadout facility which is proposed to be constructed in spring of 1982. Mr. Carl Muha, preparation and quality control engineer for Consol, has expressed the need to complete the sedimentation pond before the ground freezes in November 1981. The Division anticipates a complete technical review with approval for construction of the prep plant and loadout facility by late winter or early spring 1982. With the Office of Surface Mining's concurrence of such an approval, the applicant will proceed with the scheduled construction of the prep plant and loadout facilities during spring and summer of 1982.

Currently, the Division and State of Utah Department of Water Pollution Control are reviewing the sedimentation pond for technical completeness. I would request that your staff initiate this review as soon as possible and contact the Division with any concerns OSM may have regarding this project. I am aiming to meet the applicant's requested deadline of mid-November for approval of the sedimentation pond.

Sincerely,

Sally Kefer
SALLY KEFER
RECLAMATION HYDROLOGIST

Enclosure

cc: Bob Bamburg, OSM, Kansas
Carl Muha, Jr., Consolidated Coal

SK/btm



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

TEMPLE A. REYNOLDS
Executive Director,
NATURAL RESOURCES

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

JOHN L. BELL
EDWARD T. BECK
E. STEELE McINTYRE
BOB NORMAN
MARGARET BIRD
HERM OLSEN

November 12, 1981

Mr. Carl R. Muha, Jr., P.E.
Preparation and Quality
Control Engineer
Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80112

RE: Consolidation Coal Company
Emery Mine Preparation Plant
Sedimentation Pond
ACT/015/015
Emery County, Utah

Dear Mr. Muha:

Thank you for your letter of October 26, 1981, relative to the above. I would like to take this opportunity to clarify one important item of concern regarding my October 16th conversation with Ms. Ormiston. I indicated that partial approval of the Preparation Plant Application may be issued by late November so that Consol might begin construction of some specific items prior to receiving final approval of the entire application in order to avoid as much of the upcoming weather limitations as possible.

The Division staff is expeditiously reviewing Consol's Preparation Plant Application, and in particular the Sedimentation Pond and associated hydrologic concerns. We have requested that the Office of Surface Mining give priority consideration to the above and respond with any comments as soon as possible in order to meet Consol's ambitious construction schedule.

I hope that we can maintain our current direction and issue an early approval for the Sedimentation Pond. If you have any questions, please don't hesitate to call.

Sincerely,

JAMES W. SMITH, JR.
COORDINATOR OF MINED LAND DEVELOPMENT

JWS/te



United States Department of the Interior

OFFICE OF SURFACE MINING
Reclamation and Enforcement
818 Grand Avenue, Scarritt Building
Kansas City, Missouri 64106

November 17, 1981

UT 0005

JIM

NOV 30 1981

File
ACT/015/015
Copy to Sally

Mr. Jim Smith
Division of Oil, Gas, and Mining
Utah Department of Natural Resources
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Sally Kefer

Dear Mr. Smith:

We have received your request to review the plans for the Emery Deep Sedimentation Pond No. 5. Our review indicates these plans and specifications are technically complete.

Sincerely,

Bob Bamburg

BOB BAMBURG
Technical Project Officer
Technical Services & Research

RECEIVED
NOV 24 1981

DIVISION OF
OIL, GAS & MINING

RECEIVED

NOV 27 1981

DIVISION OF
OIL, GAS & MINING



Consolidation Coal Company

Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

File ACT/015/015
Copy to Sally
& Lynn
JWA

NOV 30 1981

November 23, 1981

Mr. James W. Smith, Jr.
Coordinator of Mined Land Development
State of Utah
Department of Natural Resources
Division of Oil, Gas, & Mining
1588 West North Temple
Salt Lake City, Utah 84116

re: Borehole Pump Access Road - Stipulations
Emery Deep Mine
Emery County, Utah

Dear Mr. Smith:

In response to your letter dated November 9, 1981, I am submitting additional information concerning the borehole pump access road. Per your request, the following stipulations have been readdressed as follows:

Stipulation 9-23-1 (b)

<u>Species</u>	<u>Lbs. of PLS*</u>	<u>PLS*/sq. ft.</u>
Crested wheatgrass	0.5	10
Western wheatgrass	1.0	14
Indian ricegrass	0.5	11
Galleta	0.5	9
Streambank wheatgrass	1.0	18
Fourwing saltbush	<u>1.5</u>	<u>12</u>
TOTAL	5.0	74

* Pure Live Seeds

All of the species listed above are native species, except for crested wheatgrass. Although crested wheatgrass is an introduced species, its usefulness on arid sites with poor soil conditions is very admirable. This species establishes quickly and permanently on sites where most species will never become established at all. Crested wheatgrass is also a palatable species for grazing livestock, which will be the post-mine land use for this disturbance area.

Mr. Smith
November 23, 1981
Page Two

Stipulation 9-23-1 (c)

Straw mulch will be applied to the disturbed area after seeding. Following the 1.5 tons/acre application, the mulch will be crimped or disked in with either a straight disk crimper or a regular light disk.

Stipulation 9-23-5

1. Consol accepts stipulation 11-6.1. The turn-around area will not interfere with any drainage.

If you have any questions, please contact me.

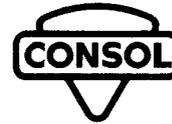
Sincerely,



Mary Jo. B. Ormiston
Civil Engineer

MJO/mcf

cc: D. Bray
J. Higgins
C. Muha
R. Williamson



Consolidation Coal Company
 Western Region
 Emery Mine
 P. O. Box 527
 Emery, Utah 48522

December 14, 1981

RECEIVED
 DEC 21 1981
 DIVISION OF
 OIL, GAS & MINING

Mr. Lynn M. Kunzler
 Division of Oil, Gas, and Mining
 1588 West North Temple
 Salt Lake City, Utah 84116

Dear Mr. Kunzler,

Pursuant to our telephone conversation of December 14, 1981,
 I trust the following additional information will meet the stipulations
 of your approval letter dated September 15, 1981.

RipRap Recovery Area Seed Plan

Area involved = Approximately two acres

Species	lbs. of PLS*	PLS*/sq. ft.
Crested wheatgrass	5	10
Western wheatgrass	10	14
Indian ricegrass	5	11
Galleta	5	9
Streambank wheatgrass	10	18
Fourwing saltbush	<u>15</u>	<u>12</u>
TOTAL	50	74

* Pure Live Seeds

Due to the extremely steep and rugged terrain created by removing the riprap, it would not be practical to try to mulch and crimp this disturbed site. Small ridges were created in the site by dozing which will aid in holding the site in place until permanent vegetation can be established.

The above seed plan was recommended to myself by Rick Williamson, CONSOL'S Reclamation Biologist in Denver.

In reference to the Christiansen Wash berm, it is impractical to revegetate any disturbed areas because they have all been heavily riprapped.

Page 2

CONSOL seeding

Any further questions should be directed to myself at the Emery Mine, telephone number (801) 286-2301.

Sincerely,

A handwritten signature in cursive script that reads "Dean C. Bray".

Dean C. Bray
Emery Mine Engineer

December 14, 1981

Memo to File:

RE: Hydrology Issues
Consolidated Coal Co.
Emery Deep Mine
ACT/015/015
Emery County, Utah

In a telephone conversation with Mr. Louis Meschede, a hydrologist with Consolidated Coal Company in Denver, the following topics were discussed: the prep plant slurry cell impact monitoring program; the hydrologic impact of the proposed surface mine; and the repair and replacement of the damaged parshall flume in Quitchupah Creek.

Prep Plant Slurry Cell

Mr. Meschede stated that the Blue Gate Shale underlying the slurry cell area acted as an impervious layer to any other ground water sources which may occur in this area. The immediate concern is finding a means to divert the false ground water swell over the Blue Gate Shale occurring in the slurry cell area due to extensive irrigation of adjacent fields. At that time, monitoring wells will be installed around the slurry cell to detect pre-operational ground water quantity and quality and seepage and permeability rates of the soil.

The probable drilling method will be to cable-tool the wells driving the casing at the same time. Air will not be utilized to avoid the probable formation collapse. Mud will be avoided due to the contamination problems arising within the formations.

Hydrology of Proposed Surface Mine Area

Mr. Meschede suggested obtaining the USGS open file report by Lines and Morrissey entitled Hydrology of the Ferron Sandstone. Many assumptions about the hydrologic impacts of the proposed surface mine area arise from the information in this report. Some of the reported findings include:

1. There are four water bearing strata in the Mancos shale formation. The Blue Gate shale, Upper Ferron and Lower Ferron sandstones and Tununk formation. Previously the potentiometric surface was above the water table in the slurry cell area, but with the mining and land use in the area, the potentiometric surface has been lowered in the Blue Gate allowing leakage into the Upper Ferron sandstone. The leakage is highly saline.

MEMO TO FILE
ACT/015/015
December 14, 1981
Page two

2. The surface mine coal seams I and J are within water bearing formations. Consol expects passive inflow into the mined pits and, therefore, will obtain an NPDES permit to discharge these waters directly to Christiansen Wash. There are varying ground water gradients in the various formations. The consequences of water extraction on the Blue Gate, Upper Ferron and Lower Ferron aquifers must be determined.
3. There are shales and siltstones underlying the water bearing coal seams in the proposed surface mine area which confine the water bearing sands which lie below the mined out area. There may be some leakage or other impacts to these lower water bearing formations due to the Joe's Valley fault system. Therefore, a ground water monitoring scheme must be proposed to determine what those impacts are.

Surface Water Monitoring of Quitchipah Creek

Mr. Meschede discussed the need for replacement and repair work to a parshall flume and recorder damaged by a large storm in September 1981. Previously, the USGS maintained a weir above the confluence on Quitchipah Creek but ceased monitoring in October 1981. Currently, the USGS maintains a weir on Christiansen Wash and will continue collecting data until October of 1982.

The proposed throated concrete parshall flume to be installed below the confluence of Christiansen Wash and Quitchipah Creek will be the only flow monitoring device Consol will maintain. It will be located on Quitchipah Creek. The installation of this device must be deterred until a low flow period occurs at which time a temporary channel diversion will be installed while construction of the flume is completed. Thus far the flows in Quitchipah Creek have been too large to readily divert.

Another point Mr. Meschede discussed was the need to discuss overburden chemistry including drilling and analytical parameters. I suggested that he use the DEQ guidelines for overburden sampling as this was in line with Utah's State Program requirements.

SALLY KEFER 
RECLAMATION HYDROLOGIST

SK/btb



File
ACT/015/015

Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80112
(303) 770-1600

JIM

DEC 29 1981

December 23, 1981

Ms. Sandy Pruitt
State of Utah
Division of Oil, Gas, & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Dear Ms. Pruitt:

Following my conversation this morning with Sally Kefer, Consol requests an extension for abatement of Violation Nr. 81-2-16-2 to January 15, 1982 for submittal of plans regarding the use of our riprap acquisition area as a borrow area. This extension request is due to the holiday schedule.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard M. Holbrook".

Richard M. Holbrook
Supervisor-Environmental Affairs

RMH/kdb

cc: D. Bray
D. Jones
S. Kefer
R. Williamson

RECEIVED

DEC 29 1981

DIVISION OF
OIL, GAS & MINING

Pump Test approval



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

*Route to:
Sally 12/29/81
and return to Jk*

MEMORANDUM

*Comments
appears ok as Bureau of
Water Pollution Control has
approved the pump test plan.
Do we have written documentation
of this approval and would it
coincide with our 1981-82
we sign off with this approval.*

TO: ~~File and Inspection Staff~~

FROM: Sally Kefer, Reclamation Hydrologist *SK*

SUBJECT: Pump Test, Consolidated Coal, ACT/O15/O15

DATE: December 23, 1981

In a telephone conversation with Mr. Dave Shuyler, permit coordinator for Consolidated Coal Company, a request was made for verbal approval to conduct a pump test at the Emery Deep Mine.

The location of the well is adjacent to the recently approved bathhouse near the general offices. The well will be pumped at a rate of 150 gpm for 24 hours. Data on the quantity and quality of the aquifer will be obtained during the test.

*How many
samples
and
how long*

Mr. Fred Pearson, a public health engineer in the Bureau of Water Res. Pollution Control, reviewed and approved a plan for the pump test which was submitted by Consol.

Mr. Shuyler requested permission to begin the pump test even though the plan had not yet been submitted to the Division.

Since the pump test was to occur on a predisturbed area with the discharge directed over a riprapped embankment of Quitcupah Creek, I granted a verbal approval with the stipulation that Consol submit the same pump test plans and results to the Division as were/will be submitted to the Bureau of Water Res. Pollution Control. The plans will be submitted by January 3, 1982. *Div. Water Res.*

SK/btb

R.O. Unit - Prot ms

Mine disch, stored 10,000 gal - tank on hill. Expense
\$14000/mo operations maintenance.

- well drilled early Dec. 1-18th

- State Engineer ^{water} pressured CONSOC to use water rights
in well area, where it was drilled.

^{may}
^{due}
^{date}
- completed middle + lower Ferron, then drilled to tunnel ^{in exploring}
- monitored quality at various depths while drilling
packed ^{casings} unsuitable strata.
Dept Health Mike Georgeson witnessed casing
of well in accordance w/ rights.

must be
incurred -
as set by
water rights

steel pipe, 5" stainless well screen, 50' total
used.
- gravel packed well w/ annulus

- EPA has determined that no NPPES is req'd
because they're in a water supply formation.

45 gpm discharge not 150 that was
drill rate when installed.

- EC throughout course of test
1 full qty. evaluation at end of test.

Health Regs. Ch 6 app D
+ Bact testing



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

M E M O R A N D U M
* * * * *

TO: (C) File, Inspection Staff and Consolidation Coal Company
FROM: Sally Kefer, Reclamation Hydrologist *SK*
SUBJECT: Borrow Area at the Emery Deep Mine, ACT/015/015, Carbon County, Utah
DATE: December 28, 1981

On December 23, 1981, Mr. Rick Holbrook and other members of Consolidation Coal informed the Division that foundation materials are needed for the recently approved bathhouse at the Emery Deep Mine.

Mr. Holbrook presented two alternatives for obtaining the materials. One was a suggestion to pioneer a road to the recently excavated and stockpiled subsurface materials from the sediment pond in the prep plant area. Part of these materials would be hauled to the bathhouse area for a foundation.

The second alternative, the more feasible of the two, would be to utilize those unconsolidated materials which were sidecast over the existing highwall in the storage yard during the blasting in the borrow area for the repair work on Christiansen Wash in September 1981. The borrow area is located on a cliff top adjacent to Quitchupah Creek just above the confluence with Christiansen Wash.

Ms. Sandy Pruitt, reclamation officer, issued a violation on the borrow area on December 17, 1981, for failure to operate without a permit. As abatement for this violation, a reclamation plan is to be submitted for the borrow area and the materials which were sidecast.

Since Consol has requested to utilize these unconsolidated sidecast materials for foundation materials for the bathhouse, a suggestion was made to submit plans to this effect as abatement to the violation. This abatement action would in effect become a minor modification to the interim permit for the Emery Deep Mine.

MEMORANDUM
ACT/015/015
December 28, 1981
Page two

The following areas are to be addressed in such an abatement/modification plan.

1. The assurance of the existing rock wall stability in light of those stipulations incurred in the September 25, 1981, approval letter on Christiansen Wash (assuming disturbance has or will occur to the natural high wall). If any unconsolidated, sidecast materials are left in place at the base of the highwall, the geotechnical stability must be guaranteed. Also, the fact that the access road was cut into the slope requires careful attention to long-term stability following final reclamation.
2. Confirm the nondisturbance or continued use of this borrow area on the top of the slope. If it is to be maintained as a borrow area, state plans for stabilization of erosive materials between periods of use. Refer to correspondence on Christiansen Wash discussing permanent reclamation of the borrow area.
3. Provide cross sectional profiles of the previous ground surface of the borrow area and the postoperative ground surface. Include any changes in contour which may have or will occur in the highwall below the borrow area.

SK/btb

RECEIVED

JAN 07 1982

DIVISION OF
OIL, GAS & MINING



Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

FILE ACT 013/015

December 29, 1981

Mr. Bob Burm
U.S. Environmental Protection Agency
Permits and Enforcement
Suite 900
1860 Lincoln Street
Denver, CO 80203

Subject: Well Test - Emery Mine

Dear Mr. Burm:

This letter is intended to verify our telephone conversation on December 22, 1981. During this conversation, I requested verbal approval to conduct a 24 hour pump test on the new potable water supply well at our mine near Emery, Utah. I explained that to test this well, we intended to pump the well at about 100 gpm and discharge the water into Quitchupah Creek. You then gave me a verbal approval to conduct this test.

Thank you for your cooperation on this matter. If you have any questions, please contact me at our Englewood office.

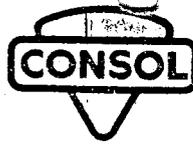
Sincerely,

A handwritten signature in cursive script that reads "Dave Schouweiler".

Dave Schouweiler
Permit Coordinator

DS:bb

cc: S. Jaccaud
R. Holbrook



Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

December 29, 1981

Mr. Fred Perhrson
Department of Health
150 West North Temple
P.O. Box 2500
Salt Lake City, Utah 84110

Subject: Well Test - Emery Mine

Dear Mr. Perhrson:

This letter is intended to verify our telephone conversation on December 22, 1981. During this conversation, I requested verbal approval to conduct a 24 hour pump test on the new potable water supply well at our mine near Emery, Utah. I explained that to test this well, we intended to pump the well at about 100 gpm and discharge the water into Quitchupah Creek. You then gave me a verbal approval to conduct this test.

Thank you for your cooperation on this matter. If you have any questions, please contact me at our Englewood office.

Sincerely,

A handwritten signature in cursive script that reads "Dave Schouweiler".

Dave Schouweiler
Permit Coordinator

DS:bb

cc: S. Jaccaud
R. Holbrook



Consolidation Coal Company

Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

December 29, 1981

Ms. Sally Kefer
Division of Oil, Gas and Mining
Fourth Floor
State Office Building
Salt Lake City, Utah 84110

Subject: Well Test - Emery Mine

Dear Ms. Kefer:

This letter is intended to verify our telephone conversation on December 22, 1981. During this conversation, I requested verbal approval to conduct a 24 hour pump test on the new potable water supply well at our mine near Emery, Utah. I explained that to test this well, we intended to pump the well at about 100 gpm and discharge the water into Quitchupah Creek. You then gave me a verbal approval to conduct this test.

Thank you for your cooperation on this matter. If you have any questions, please contact me at our Englewood office.

Sincerely,

A handwritten signature in cursive script that reads "Dave Schouweiler".

Dave Schouweiler
Permit Coordinator

DS:bb

cc: S. Jaccaud
R. Holbrook

RECEIVED
JAN 07 1982

Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80112
(303) 770-1600

DIVISION OF
OIL, GAS & MINING

January 4, 1982

Ms. Sally Kefer
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Dear Ms. Kefer:

This letter is in response to your request that Consol document the drilling, construction, and aquifer testing of a public water supply well which was recently completed in the Emery Mine yard area.

A water supply well was desired to eliminate high operational costs of the reverse/osmosis treatment unit and to terminate waste disposal operations associated with it that heretofore have been problem areas.

The well was drilled and constructed in accordance with regulations of both the Utah Department of Health-Bureau of Public Water Supply and the Utah State Engineer-Division of Water Rights under Change Application No. A-8423 which was approved on July 2, 1981. Timely proof of appropriation, and therefore, completion of the well, was a matter of concern to the State Engineer (see Specifications).

The well was tested in accordance with the Bureau of Public Water Supply regulations at a constant rate of 45 gpm with the discharge averaging 2,200 umhos/cm in specific conductance. Verbal approval to discharge the produced water to Quitcupah Creek was granted by both the EPA and the Utah Bureau of Water Pollution Control (see Letters). The water was piped the entire distance from the well head to the stream channel to preclude surface disturbance and adequate energy dissipation was established there to minimize scour. A water sample was taken at the end of the 24-hour test to document water quality.

A suitable surface housing for the pump will be designed along with a treatment/distribution system for the water, both in accordance with Bureau of Public Water Supply regulations, prior to the use of water from the well.

Ms. Sally Kefer
January 4, 1982
Page 2

Thank you for your cooperation in this matter. If you have any additional questions, please do not hesitate to contact me.

Sincerely,

Louis H. Meschede

Louis H. Meschede
Hydrologist

LHM/kdb

cc: D. Schouweiler

RECEIVED

JAN 07 1982

DIVISION OF
OIL, GAS & MINING

Sally Keber
See Drawing A. for
approx. discharge pt.

SPECIFICATIONS FOR
CONSTRUCTION AND TESTING OF
WATER SUPPLY WELL AT
CONSOLIDATION COAL COMPANY
EMERY MINE

Prepared by:

Louis H. Meschede
Consolidation Coal Company
Western Region
Englewood, Colorado

October 21, 1981

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I. GENERAL

I-1 Scope

This specification, provides for the furnishing of labor, equipment, materials, and services to be performed by the Contractor, and the practice and procedures to be followed, for the drilling, construction, development, and testing of a water supply well for the Emery Mine located approximately four (4) miles south of Emery, Utah. The well is to be constructed in the SW $\frac{1}{4}$, NW $\frac{1}{4}$, Section 33, T22S, R6E, Emery County, Utah. The elevation at this location is approximately 5940 feet (MSL). The exact location of the well will be determined by and staked in the field by the Owner.

I-2 Drawings and Supplements

- A. Location map.
- B. Schematic Diagram of Well.

I-3 General Obligations of the Contractor

The Contractor shall supply all labor, equipment, materials and services for the construction and development of the well, except for items to be furnished by the Owner as detailed in these Specifications. The Contractor shall supply capable, experienced personnel and well-conditioned, suitable equipment to perform the work.

- A. The Contractor is to be thoroughly knowledgeable about the materials and construction practices described in these Specifications. The Contractor shall have a copy of the Specifications on the site at all times.
- B. Any suggestions by the Contractor for modification of specified materials or alternative methods for accomplishing any of the work items are welcome. Any obvious errors, deficiencies, or omissions in these Specifications shall be brought to the attention of the Owner before commencement of the work.
- C. All work will be under the technical supervision and inspection of the Owner.
- D. The Contractor shall use all reasonable measures to prevent the entrance of any foreign matter into the well at all times during the work. The Contractor shall be responsible for any objectionable material that may fall into the well and its consequences prior to the completion of the well and its acceptance by the Owner.

- E. The Contractor shall not be responsible if the well produces water of poor quality or insufficient quantity, providing the well is constructed in strict accordance with the Specifications.
- F. The Contractor shall, within reason, make every effort to protect the environment of the site. All garbage and debris shall be placed in appropriate containers and removed from the site by the Contractor upon completion of the work.
- G. The Contractor shall, at his own expense, procure all permits, certificates, and licenses required of him by law for the execution of his work.

I-4 Materials and Services Furnished by the Owner

- A. The Owner shall prepare a suitable drilling pad, including a mud pit if necessary, with adequate access for the Contractor and his equipment. It shall be the responsibility of the Contractor to determine that these conditions are satisfactory prior to mobilization of equipment to the site.
- B. A source of water for drilling, well construction, and development shall be furnished by the Owner. The nearest source is NE $\frac{1}{4}$, NE $\frac{1}{4}$, Section 32, T22S, R6E, approximately one (1) mile northwest of the site.
- C. The Owner shall furnish to the Contractor at the site of the work, free of cost the following well construction materials: backfill gravel, mild steel pipe, grout and cement pumping services, well screen, centralizers, formation stabilizer (gravel pack), and bottom plate.
- D. A source of 480 volt, 3 phase electrical power of 22 kVA capacity is available for the test pump. However, the Contractor will be required to furnish portable cable, combination motor starter, and all other necessary electrical equipment to operate the test pump. The nearest hook-up is approximately 300 feet from the site. Single phase power is also available in limited quantities.
- E. Upon completion of the work, the Owner shall regrade the work area. All other clean-up (Sections I-3F and II-1A) is the responsibility of the Contractor.

II. DETAILED WORK REQUIREMENTS

The work shall meet all conditions and requirements of the Specifications, as well as comply with the requirements of the Utah Department of Health, Division of Environmental Health, Bureau of Public Water Supplies. All work necessary to complete the water well and make it ready for operation, unless specifically excluded in I-4 or II-2, shall be performed and considered as part of the work whether or not the task is specifically described in the Specifications.

II-1 Work Items Included

The work shall include, but not be limited to, the following principal items.

- A. Mobilization to and demobilization from the site. This item includes clean-up of all trash and refuse from the site and removal of all unused materials to a nearby location designated by the Owner.
- B. Drilling and reaming of a pilot hole to the specified diameters and depths.
- C. Installing all well casing, well screen, centralizers, and other supplementary parts of either the casing or screen assemblies.
- D. Placing the formation stabilizer.
- E. Furnishing and operating all necessary equipment and materials (bailer, surge plunger, etc.) for developing the well.
- F. Applying a disinfectant chemical to the well in the prescribed concentration and manner.
- G. Furnishing, installing, operating, and subsequently removing a test pump and all accessory equipment for test pumping the well.
- H. Furnishing and installing 30 feet of 14-inch surface casing.

II-2 Work Items Excluded

- A. Geophysical logging and production logging.
- B. Furnishing and installing the permanent pumping equipment for the well.

II-3 Equipment and Materials

A. Drilling Fluid

The drilling fluid shall be air with water/foam injection. If it becomes necessary to use mud, the following conditions shall be met:

1. The mud shall be an organic polymer type such as Baroid LOLOSS, Johnson REVERT, or an approved equivalent.
2. The Contractor shall be responsible for determining the proper initial mixture and subsequently controlling the properties of the mud.
3. The Contractor shall have available at all times and utilize as necessary a viscosity funnel and weight balance for measuring the properties of the mud.
4. No other additives or any lost circulation materials shall be mixed with the drilling mud without the authorization of the Owner.

B. Upper Casing and Screen-Casing String

1. Design of Upper Casing and Screen-Casing String

The exact length and design of the upper casing and screen-casing string will be determined by the Owner after the pilot hole has been drilled and geophysically logged and the formation samples and geophysical logs have been analyzed.

2. Upper Casing

- a. Only new, seamless steel pipe ASTM grade A53-B or equivalent shall be used.
- b. Pipe shall be 8.625 inch OD with 0.277 inch wall thickness.
- c. The Owner shall furnish the specified casing.
- d. All pipe shall have plain ends beveled for welding.

3. Screen-Casing String

- a. The screen-casing string shall consist of stainless steel well screen and blank, mild steel pipe.

- b. Pipe shall be 5.563 inch OD with 0.258 inch wall thickness.
- c. The Owner shall furnish the specified casing.
- d. All pipe shall have plain ends beveled for welding.
- e. Screen and all associated fittings shall be fabricated entirely of Type 304 stainless steel or approved equivalent.
- f. Screen shall be Johnson continuous slot, V-shaped wire-wound or an approved equivalent.
- g. Screen construction shall be of adequate strength, based upon the manufacturer's recommendations, to meet or exceed all anticipated conditions resulting from depth of setting, method of installation, or effects of subsequent placement of filter material and development work.
- h. Screens shall be 5 inch OD pipe sized.
- i. The well screen length and screen slot size will be selected when specific information is available regarding the thickness and character of the water-bearing strata. The screen shall be furnished and air freighted to the site by the Owner.
- j. The screens shall be fitted with welding rings on each end to mitigate bi-metallic corrosion.

4. Centralizers

- a. Centralizers shall be Antelope Model 505 for the 8-5/8 inch casing and Antelope Model 352 for the 5-9/16 inch casing.
- b. Centralizers shall be located approximately every 60 feet on the 8-5/8 inch casing and every 50 feet on the 5-9/16 inch casing. The specific locations shall be designated by the Owner.
- c. The Owner shall furnish three (3) centralizers sized for 8-5/8 inch casing which shall bow to approximately twelve (12) inches and four (4) centralizers sized for the 5-9/16 inch casing which shall bow to approximately twelve (12) inches.

5. Bottom Plate

The bottom of the screen-casing string shall be fitted with a flat steel plate of the same thickness and material as the blank steel pipe and of 5-9/16 inch diameter.

C. Grout

The Owner will contract well cementing services. It shall be the responsibility of the Contractor, however, to prepare the top of the casing as required, and to provide all necessary assistance and support to the well cementing contractor.

1. Grout shall be a mixture of Portland cement, Pozmix, bentonite, water (not to exceed 5.75 gallons per sack of cement), and calcium chloride (accelerator) not to exceed two (2) percent by volume.
2. Cementing plugs shall be the Halliburton drillable type.

D. Formation Stabilizer

The Owner shall furnish an appropriate size of Fountain Sand and Gravel Silica Sand as a formation stabilizer. The size of the sand shall be carefully selected with reference to the character of the water-bearing strata to be stabilized. It shall be freighted to the site upon selection.

E. Development Equipment and Materials

1. Surge Plunger

- a. The outside diameter of the surge plunger shall be 4.5 inches which is 0.5 inch less than the inside diameter of the well screen.
- b. The surge plunger shall have air vents above the flanges or rubbers.
- c. If the surge plunger is to be operated by the bailer line, it shall be weighted sufficiently so as to fall readily on the downstroke.

2. Bailer

The bailer shall be of the type capable of removing sand from the well.

F. Disinfectant Chemical

1. The disinfectant chemical shall consist of 70% CaHClO_4 (calcium hypochlorite, commercially known as HTH), NaHClO_4 (sodium hypochlorite, available as liquid household bleach), or an approved equivalent.
2. The concentration of the disinfectant solution shall be at least 50 ppm.
3. The Owner shall furnish the required amount of one of these chemicals.

G. Mixing Tank

The Contractor shall provide a clean tank of at least 100 gallon capacity for mixing the disinfectant chemical.

H. Test Pump and Supplementary Equipment

1. It is anticipated that the static water level will be 50 to 100 feet below ground level. The expected pumping levels will range between 150 and 350 feet below ground level at pumping rates of approximately 5 to 20 gallons per minute.
2. The actual test pump depth setting shall be chosen in the field prior to the commencement of the formal aquifer test. However, it is expected to be set between 325 and 375 feet below ground level.
3. The test pump shall be capable of a discharge rate of at least 15 gpm at a pumping level of 350 feet below ground.
4. An in-line flow meter and a valve shall be installed on the pump discharge line to permit accurate measurement of the discharge rate and to be able to control the discharge to within ± 5 percent of the desired rate.
5. The Contractor shall furnish and install $3/4$ inch tubing (either plastic or steel) to within 10 feet of the pump. This tubing will serve as a means of access for a water level probe to be supplied and operated by the Owner.
6. Approximately 200 feet of 2 inch diameter discharge pipe or hose shall be furnished to carry the water away from the well to the designated point of discharge.

II-4. Drilling, Well Construction, and Development Practices and Procedures

A. Anticipated Geologic Conditions

The geologic materials to be encountered consist of very fine to medium grained sandstone, siltstone, coal, and shale of the Ferron Sandstone Member of the Mancos Shale Formation. This sedimentary sequence overlies the Tununk Shale. All materials should be capable of being drilled with air.

B. Drilling of Test Hole

A nominal 5 inch diameter test hole shall be drilled to an approximate depth of 400 feet, just into the Tununk Shale. If, upon termination of the test hole, the cumulative water production exceeds 20 gpm, the test hole will be reamed for the permanent well. Otherwise, the test hole shall be abandoned in accordance with the requirements of the Utah Division of Oil, Gas, and Mining.

1. Driller's Log

The Contractor shall keep an accurate, descriptive log of the geologic materials penetrated and the drilling rates. The Owner shall have access to this log during drilling and shall be furnished a copy of this log promptly upon completion of the test hole.

2. Sampling

The Contractor shall collect washed samples of all water-bearing strata. The samples shall be placed in containers furnished by the Contractor, and labelled to indicate the depth at which the sample was obtained.

3. Production Logging

During drilling of the test hole, the Owner shall maintain a log of cumulative water production with depth, as measured by a portable flume. It shall be the responsibility of the Contractor to conserve and channel all water produced from the test hole through the flume, to insure the logging of all water which is produced.

4. Geophysical Logging

Upon completion of the test hole, it may be geophysically logged. These services shall be furnished by the Owner if required. The time required for geophysical logging shall be designated by the Owner and shall be considered to be "rig and crew" standby time.

C. Reaming and Backfilling of the Test Hole

1. Reaming

If the test hole is to be enlarged and used for the permanent well, it shall be reamed between the surface and the depth at which the well is to terminate and to a diameter of 12-1/4 inches.

Equipment used in the reaming process shall have a pilot of the same diameter as the bore being reamed to assure proper alignment.

2. Backfilling

Upon completion of the reaming of the test hole, the bore shall be backfilled with 3/8 inch, washed pea gravel to a point just above the first water-bearing strata to be screened, as designated by the Owner. Other, less pervious material may be positioned on top of the emplaced gravel as a seal. The Owner shall furnish all backfilling materials.

D. Casing and Cementing Upper Portion of Well

1. General

- a. A complete tally shall be kept by the Contractor for each casing assembly. It shall record the lengths of individual sections of casing to the nearest 0.1 foot and show their locations in the string, as well as the locations of any centralizers, to the nearest 0.5 foot.
- b. All welding shall be done by a certified welder and conform to the practices of the American Welding Society.

2. Casing

The 8-5/8 inch OD casing shall be properly assembled with centralizers, joined, and lowered to the top of the backfilled material. The casing shall be kept in tension during the entire installation and subsequent grouting operations, and at no time shall it be allowed to rest on the top of the backfilled material.

3. Cementing

- a. The casing shall then be cemented by the Halliburton through-the-casing method from the top of the backfill to the surface.
- b. The cement shall be allowed to set for approximately 12 to 24 hours before any further drilling is done.

E. Construction and Development of Lower Portion of Well

1. Removing Backfill

After the cement has set, the Contractor shall go through the 8-5/8 inch casing with a 7-7/8 inch drill bit and remove with air the backfilled material from the bottom of the 8-5/8 inch casing to the bottom of the 12-1/4 inch, reamed borehole.

2. Installing Screen-Casing Assembly

- a. The welding and assembly of the screen-casing string shall be in accordance with II-4 D 1 a and b.
- b. The Owner shall determine the final design of the screen-casing string based on data from the borehole log and geophysical log. Exact depth intervals and lengths for screened sections and locations of centralizers shall be designated.
- c. The bottom plate shall be welded to the 5-9/16 inch steel casing which will act as a tail piece to provide for adequate development of the lowest part of the screen. The exact length of the tail piece shall be determined by the Owner in the field.
- d. The screen-casing assembly shall be welded to the steel tail piece and properly assembled with centralizers, joined, and lowered into the borehole. The screen-casing assembly shall be kept in tension during the entire installation and formation stabilizer placement procedures, and at no time shall it be allowed to rest on the bottom of the hole.

- e. After the string has been lowered into position, and before the placement of formation stabilizer and grout, it shall be tested for alignment. This is to insure that the production pump can be properly set in the well upon completion of development. The test shall consist of lowering a 20 foot long pipe section or a dummy of the same length to a depth of approximately 400 feet. The outside diameter of the pipe or dummy shall not be less than 4 inches. The pipe or dummy shall pass freely through the string to the designated depth. Should the string fail to meet this requirement, its plumbness and/or alignment shall be corrected by the Contractor at his own expense until the test can be successfully completed.
- f. A complete screen-casing string tally shall be kept for the well by the Contractor. It shall record the lengths of individual sections of casing and screen to the nearest 0.1 foot and show their locations in the string as well as the locations of any centralizers to the nearest 0.5 foot.

3. Installing Formation Stabilizer

- a. The formation stabilizer shall be placed by gravity feed. The height of the formation stabilizer in the borehole shall be periodically checked or "tagged" with a small-diameter tubing string or sand line supplied by the Contractor.
- b. The formation stabilizer shall be placed continuously at a rate which prevents bridging either in the annulus between the inner and outer casings or in the borehole.
- c. The formation stabilizer shall be installed to a level of approximately 100 feet below ground level. The exact depth will be determined from the final well design. The top of the formation stabilizer shall be at least 50 feet above the bottom of the 8-5/8 inch casing.
- d. Upon completion of installation of the formation stabilizer, the screen-casing assembly shall be gently swabbed with the surge plunger to help insure proper settlement of the formation stabilizer.

4. Well Development

The purposes of developing the well are: a) to remove a pre-determined amount of the finer fraction of both the formation stabilizer and the natural aquifer material; b) to maximize pumping efficiency of the well; and c) to help prevent damage to the pump caused by significant amounts of sand coming into the well during pumping.

Development shall include a combination of methods as directed by the Owner.

a. Mechanical Surging

A close-fitting surge plunger (Section II-3 E 1) shall be moved upward and downward opposite all screened intervals for a time designated by the Owner.

b. Air Lift Pumping

The surge plunger shall be attached to an air line (either tubing or small-diameter drill pipe). In order to maintain a net removal of water from the aquifer and to prevent remobilization of fine sand, the well shall be intermittently air-lift pumped. Upon completion of the mechanical surging phase of development, the well shall also be continuously air-lift pumped for a time designated by the Owner.

c. Bailing

The well shall be bailed (Section II-3 E 2) as free as possible of any sand produced by either of the two previous methods.

5. Sealing Inner-Outer Casing Annulus

- a. The annular space above the formation stabilizer shall be sealed in its entirety to the surface following development.
- b. This shall be accomplished by the placement of at least 10 feet of bentonite pellets followed by concrete to the surface.

- c. The Owner shall furnish the required quantities of bentonite pellets and concrete as determined from the final well design.

II-5. Testing of Well

The test pumping shall be conducted in two phases. All testing shall be under the direct supervision of the Owner.

A. Developmental and Step-Drawdown Pumping

Prior to the formal aquifer test, developmental and step-drawdown pumping shall be conducted. The well shall be pumped at three or more rates (each greater than the preceding) for a period of 1 to 4 hours each. The actual rates and times will be designated by the Owner.

B. Aquifer Testing

The well shall be pumped continuously at a constant discharge rate (to be determined by the step-drawdown pumping) for a period of at least 24 hours. If required by the Owner, the pumping might be extended another 24 to 48 hours. The Contractor shall have an experienced operator at the site at all times while the pump is running. The Owner will be responsible for obtaining all water level and discharge data and taking samples for chemical analysis.

C. Recovery

The pump shall not be removed from the well until authorized by the Owner. It is anticipated that the pump will have to be left in the well for approximately 12 hours after it has been turned off to prevent interference with recovery water-level measurements. Part of the time that the pump is left in the well under the orders of the Owner could be considered to be standby time, provided this time is during hours when the Contractor would normally work and all possible aquifer test demobilization has been completed (see Section III-3 C 3).

II-6. Disinfecting Well

Following completion of the aquifer testing, the well shall be heavily chlorinated to destroy any bacteria which might have been introduced to the well during construction and testing. The chlorinating solution shall be at a strength of at least 50 ppm.

III. STANDBY TIME

III-1. Standby time shall mean inactive periods during which no work is done either resulting from conditions beyond the Contractor's control or at the direct orders of the Owner. It specifically excludes lost time due to equipment failure, time required for repair or maintenance of equipment, and non-productive time while waiting for delivery of materials supplied by the Contractor. All standby time shall be approved by the Owner.

III-2. In case of inclement weather, any suspension of work shall be by mutual agreement between the Owner and the Contractor or his field superintendent. The major deciding factor shall be the safety of all personnel.

III-3. Standby time shall be paid according to the following:

- A. Standby time shall be paid for a maximum of 8 hours per day regardless of the Contractor's actual work schedule.
- B. Standby time shall not be paid for time on any days (weekends, holidays, other designated days) on which work is not normally performed under this Contract unless the Contractor has previously agreed to work on such days.
- C. Standby time shall be paid under the following three categories:

1. Rig Only

When the drilling rig crew is released from the site and the equipment is left idle. This shall be done when the inactive period is expected to be a half day or more.

2. Rig and Crew

When the drilling rig crew is present and the equipment is idle.

3. Standby During Recovery from Aquifer Testing

When the pump crew is present during regular working hours and pump removal cannot proceed because of instructions of Owner. This does not include time after the aquifer testing while the Contractor is removing accessory equipment, pipelines, etc.

IV. SUBSTITUTIONS AND MODIFICATIONS

It is the responsibility of the Contractor to fully adhere to the provisions of this section and to inform each prospective subcontractor or supplier of materials of these provisions.

- A. Unless in compliance with the procedures outlined below, the Contractor shall furnish the materials and provide the services exactly as described in the Specifications.
- B. Any suggestions by the Contractor for modification of specified materials or alternative methods for accomplishing any of the work items are welcomed. Such suggestions shall be submitted in the following form:
 - 1. A detailed description, brochure, or drawing covering the proposed substitution or modification.
 - 2. A summary statement which sets forth the benefits or advantages of the proposed substitution or modification.
 - 3. A recommendation and explanation for any changes in the Request for Quotation required by the proposed substitution or modification.
- C. The Owner shall review all suggestions and shall either accept or reject each suggestion in writing.
- D. Any substitution or modification accepted in writing by the Owner is thereby made part of the Specifications.
- E. No substitutions or modifications will be allowed after award of the Contract unless authorized in writing by the Owner.
- F. The Contractor shall be solely responsible for correcting any situation resulting from an unauthorized substitution.

V. ABANDONED WELL / UNACCEPTABLE WELL

V-1. Abandoned Well

If the well fails to meet the Owner's needs, but the Contractor has faithfully fulfilled his obligations under this Contract, the Owner may direct the Contractor to abandon the well. The Contractor

shall be paid for all materials furnished and services performed to the point in time under the conditions of the Request for Quotation. Negotiations between the Owner and Contractor shall determine additional payment for any salvaging of materials and sealing of the well.

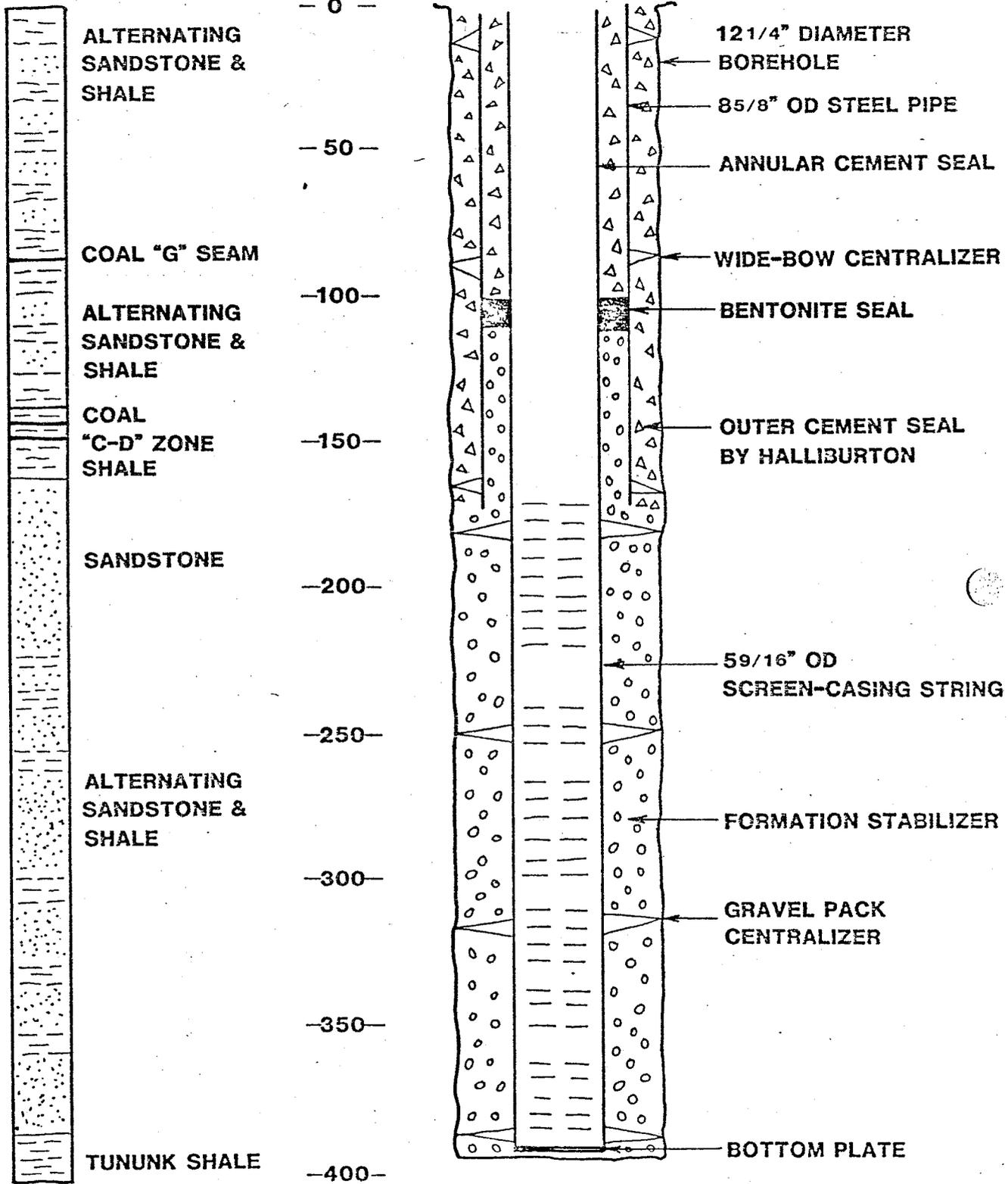
V-2. Unacceptable Well

If the well fails to meet the Owner's needs because the work has not conformed to the Specifications, and if the Contractor is unable to correct the condition at his own expense or negotiate a mutually-acceptable cost reduction for the deviations from the Specifications, it shall be considered to be an unacceptable well. The unacceptable well shall be backfilled with cement from the bottom to within 5 feet of the land surface. Any casing remaining in the hole shall be cut off at least 1 foot below ground surface. The remaining five (5) feet of hole shall be backfilled with native soil.

DRAWING B. SCHEMATIC DIAGRAM OF WELL

LITHOLOGY

DEPTH (FT.)



Field No.

<input type="checkbox"/> TC	<input type="checkbox"/> TM	<input type="checkbox"/> Nut
<input checked="" type="checkbox"/> PC	<input type="checkbox"/> PM	<input type="checkbox"/> BOD

<input type="checkbox"/> Pest.
<input type="checkbox"/> Rad.
<input type="checkbox"/> Bact.
<input type="checkbox"/> Spec.

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

Sample No. 701

15767

Storet No. _____ Water Syst. No. _____ Source No. _____

Date Collected: 702 Time Collected: _____ Water Rights No. 704

7/10/82 1:30 PM 707

Exact Description of Sampling Point

CONSOLIDATION COAL CO. 646
DRILL SITE F0657 700
- 720 FT. DEPTH SIZE 2 3/8 IN. SE.

Supply Owned by _____ Sample Type _____

Sample Collected by BICU EASTWOOD 713

SEND REPORT TO: Phone 533 5771

DIVISION OIL GAS MIN 716
CONSOLIDATION COAL CO 648
U. S. GEOLOGICAL SURVEY 717

ZIP code _____

Sample Source 719/ 611 County 16 Plute

- | | | | |
|----------------|-------------|--------------|---------------|
| 01 Spring | 14 Other | 01 Beaver | 16 Plute |
| 02 Well | 15 Tunnel | 02 Box Elder | 17 Rich |
| 03 Stream | 18 Artesian | 03 Cache | 18 Salt Lake |
| 04 Lake | well | 04 Carbon | 19 San Juan |
| 05 Dist. syst. | 19 Swimming | 05 Daggett | 20 Sanpete |
| 06 Effluent | pool | 06 Davis | 21 Sevier |
| 07 Storm | sewer | 07 Duchesne | 22 Summit |
| | | 08 Emery | 23 Tooele |
| | | 09 Garfield | 24 Uintah |
| | | 10 Grand | 25 Utah |
| | | 11 Iron | 26 Wasatch |
| | | 12 Juab | 27 Washington |
| | | 13 Kane | 28 Wayne |
| | | 14 Millard | 29 Weber |
| | | 15 Morgan | |

- Current use: 708
Proposed use: 709
- Culinary
 - Agriculture
 - Industrial
 - Other
- 350

FIELD TESTS

Temperature (°C)	792	CO ₂ , mg/l	572
D.O., mg/l	793	Depth, m	609
Sp. Cond. μ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

WASTEWATER ANALYSIS BACT. LAB. No.

Temperature (°C)	650	pH	782	M.P.N. Total Coliforms/100ml	658
B.O.D. ₅	794	T.O.C.	671	M.P.N. Fecal Coliforms/100ml	657
Tot. Sus. Solids	787	C.O.D.	777	Fecal Strep C/100ml.	656
NO ₂ +NO ₃ -N	602	Cyanide	775	M.F. Total Coliforms/100ml.	654
T.K.N.	778	Phenolics	783	M.F. Fecal Coliforms/100ml.	655
Oil & Grease	780	Sulfide	672	Plate Count-Org./ml.	599

CHEMICAL ANALYSIS pH, units 8.1

me/l	mg/l	me/l	mg/l	mg/l	ug/l (ppb)
Filtered	Unfiltered	Bicarbonate	758	Aluminum	800
Ammonia	722	Carbon Dioxide	759	Arsenic	660
Boron	723	Chloride	760	Barium	661
Cadmium	724	CO ₂ Solids	763	Beryllium	801
Calcium	725	Fluoride	765	Cadmium	662
Chromium	727	Hydroxide	767	Chromium	663
Chromium	728	Nitrate as N	605	Cobalt	804
Copper	729	Nitrite as N	606	Copper	664
Iron, dissolved	730	Phosphorus, Ortho as P	607	Gold	700
Lead	732	Silica, dissolved as SiO ₂	750	Iron	755
Magnesium	733	Sulfate	772	Lead	665
Manganese	734	TOTAL ANIONS GRAND TOTAL	490	Manganese	666
Nickel	737	Tot. Phosphorus	785	Mercury	739
Potassium	738	Total Alk. as CaCO ₃	752	Molybdenum	802
Selenium	740	T. Hdns. as CaCO ₃	754	Nickel	667
Silver	742	Surfactant as MBAS	773	Selenium	668
Sodium	743	Turbidity, as NTU	757	Silver	669
Zinc	744	Sp. Gravity	608	Uranium	601
TOTAL CATIONS	745			Vanadium	803
	749			Zinc	670

RADIOLOGICS

Alpha, gross	621	⁸⁹ Sr	633
Beta, gross	623	131I	635
Tritium, ³ H	625	134Cs	637
226 Radium	627	137Cs	639
228 Radium	629		
⁹⁰ Sr	631		

INTERPRETATION OF ANALYSES:

Remarks: _____

Based on State Standards, this sample was:

Satisfactory	Conditional	Unsatisfactory
B.O.D. ₅		
Tot. Sus. Solids		
M.P.N. Total Coliform.		
M.P.N. Fecal Coliform.		

Analyses Approved By: RSO Date: 8/12/82

By: ENVIRONMENTAL HEALTH

INSTRUCTIONS FOR COLLECTING WASTEWATER SAMPLES

1. Select point where sample will be representative and where foreign material will not be brushed into supply while sample is taken
2. Remove cap from bottle carefully
3. Collect sample by submerging the bottle and pushing forward with a slow, even motion so that the sample will be collected in a single stroke. If the bottle is more than 2/3 full, the excess should be removed before replacing the cap. This can best be done by flipping the water from the bottle
4. Replace cap

NOTE Bottles contain a liquid or white powder (sodium thiosulfate). Do Not Rinse

DO NOT TOUCH inside of bottle cap or top of bottle neck.

FOR LABORATORY USE ONLY

Date Rec'd _____ Date Rept'd _____

RESULTS OF ANALYSIS

volume ml	Presumptive		Confirmed (BGL B B)				Fecal at 44.5°C			
	24	48	24	48	24	48	T	24	24	T
<input type="checkbox"/> 10 0	5	5	/	/	/	/	/	5	/	5
<input type="checkbox"/> 1 0	5	5	/	/	/	/	/	5	/	5
<input type="checkbox"/> 10 1	5	5	/	/	/	/	/	5	/	5
<input type="checkbox"/> 10 2	5	5	/	/	/	/	/	5	/	5
<input type="checkbox"/> 10-3	5	5	/	/	/	/	/	5	/	5
<input type="checkbox"/> 10-4	5	5	/	/	/	/	/	5	/	5
<input type="checkbox"/> 10-5	5	5	/	/	/	/	/	5	/	5
<input type="checkbox"/> 10 6	5	5	/	/	/	/	/	5	/	5

M P N Coliforms per 100 ml M P N Fecal Coliforms per 100 ml

RECEIVED
JAN 22 1982

**DIVISION OF
OIL, GAS & MINING**

File ACT/015/015
copy to Mary Ann
Jim



Consolidation Coal Company
Western Region
2 Inverness Drive East
Englewood, Colorado 80110
303-770-1600

May 13, 1981

Mr. Jim Smith
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Jim:

I have prepared a public notification of Consol's Emery Mine permit application submitted to your office March 23, 1981. The notification will be published in the Emery County Progress beginning May 20 for four consecutive weeks. Following the last date of publication, I will submit an affidavit of publication to your office. A copy of the notification is enclosed for your files.

Sincerely yours,

A handwritten signature in cursive script that reads "James C. Thompson".

James C. Thompson
Permit Coordinator

JCT/km

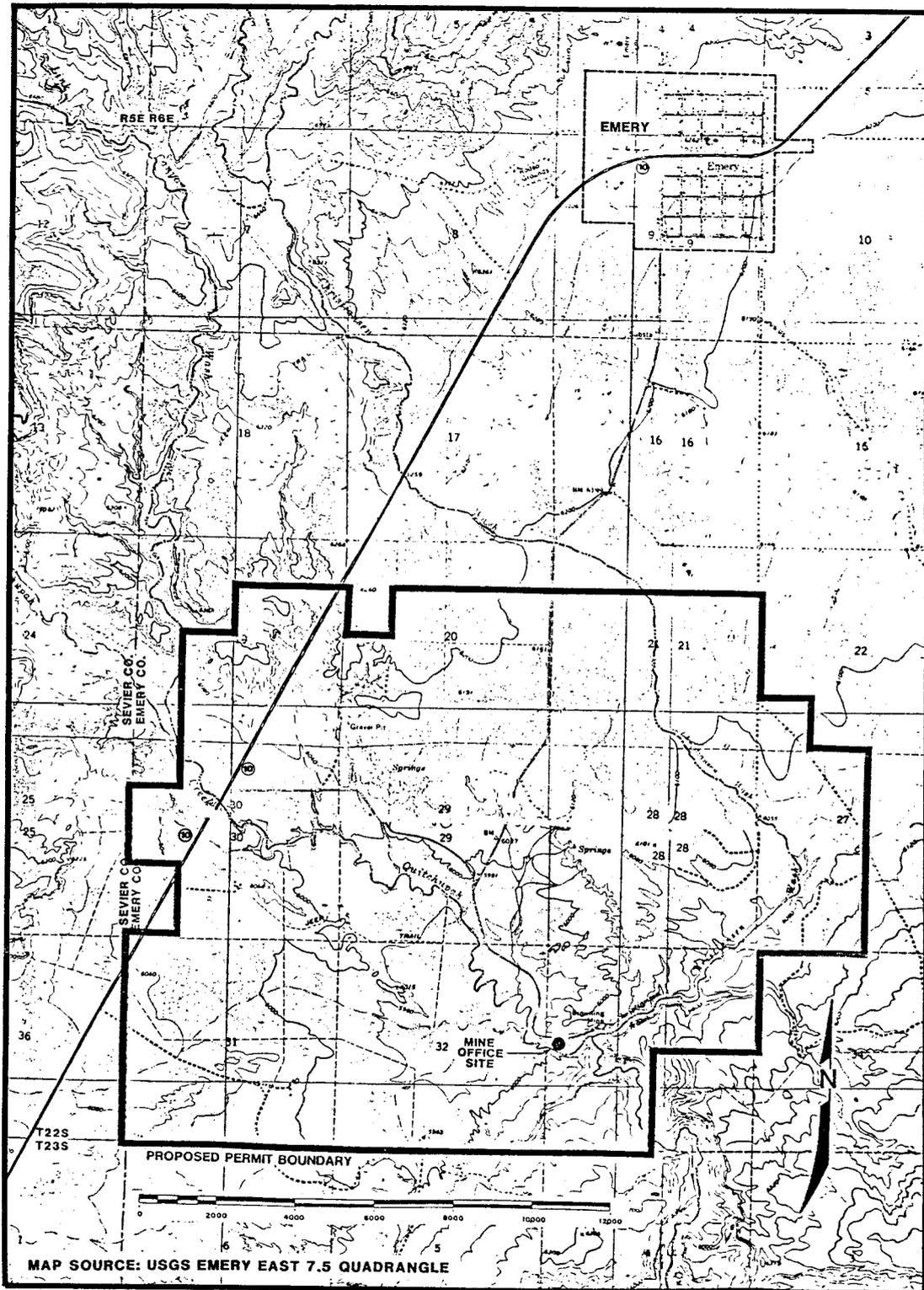
RECEIVED
MAY 15 1981

DIVISION OF
OIL, GAS & MINING

Public Notification of Coal Mining Permit Application

On March 23, 1981, Consolidation Coal Company, 2 Inverness Drive East, Englewood, Colorado 80112, filed with the Utah Division of Oil, Gas, and Mining an application for underground coal mining at the Emery Mine, Emery County, Utah. The application is for a 5-year continuation of existing mining operations. A copy of Consolidation Coal Company's complete application is available for public inspection at the Emery County Clerk's Office, Castledale, Utah. Written comments concerning this application should be submitted to the Utah Division of Oil, Gas, and Mining, 1588 West North Temple, Salt Lake City, Utah 84116, no later than July 10, 1981.

Consolidation Coal Company



(File) ACT/015/015
CONSOL
~~Copy to Sally~~

Consolidation Coal Company
Western Region
Emery Mine
P. O. Box 527
Emery, Utah 48522

Jim

June 16, 1981

Mr. Jim Smith
Coordinator of Mined Land Development
State Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

As required by UMC 782.21, Consolidation Coal Company submits a copy of the newspaper advertisement of the application for a coal mining permit for the Emery Mine, Emery County, Utah and also an affidavit of publication of the advertisement.

Sincerely,



Ronald G. Thompson
Mine Engineer

RGT/SJ
Enclosure



JUN 18 1981

DIVISION OF
OIL, GAS & MINING

AFFIDAVIT OF PUBLICATION

PUBLIC NOTIFICATION OF COAL MINING PERMIT APPLICATION

On March 23, 1981, Consolidation Coal Company, 2 Inverness Drive East, Englewood, Colorado 80112, filed with the Utah Division of Oil, Gas, and Mining an application for underground

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STATE OF UTAH }
County of Emery, } ss.

I, Robert L. Finney, on oath, s
the Publisher of The Emery Cour
a weekly newspaper of general circulation, published at
State and County aforesaid, and that a certain notice,
of which is hereto attached, was published in the f
such newspaper for Four (4)
consecutive issues, and that the first publication
20th day of May, 19 81 a
last publication of such notice was in the issue of such
dated the 10th day of June

Robert L. Finney

Subscribed and sworn to before

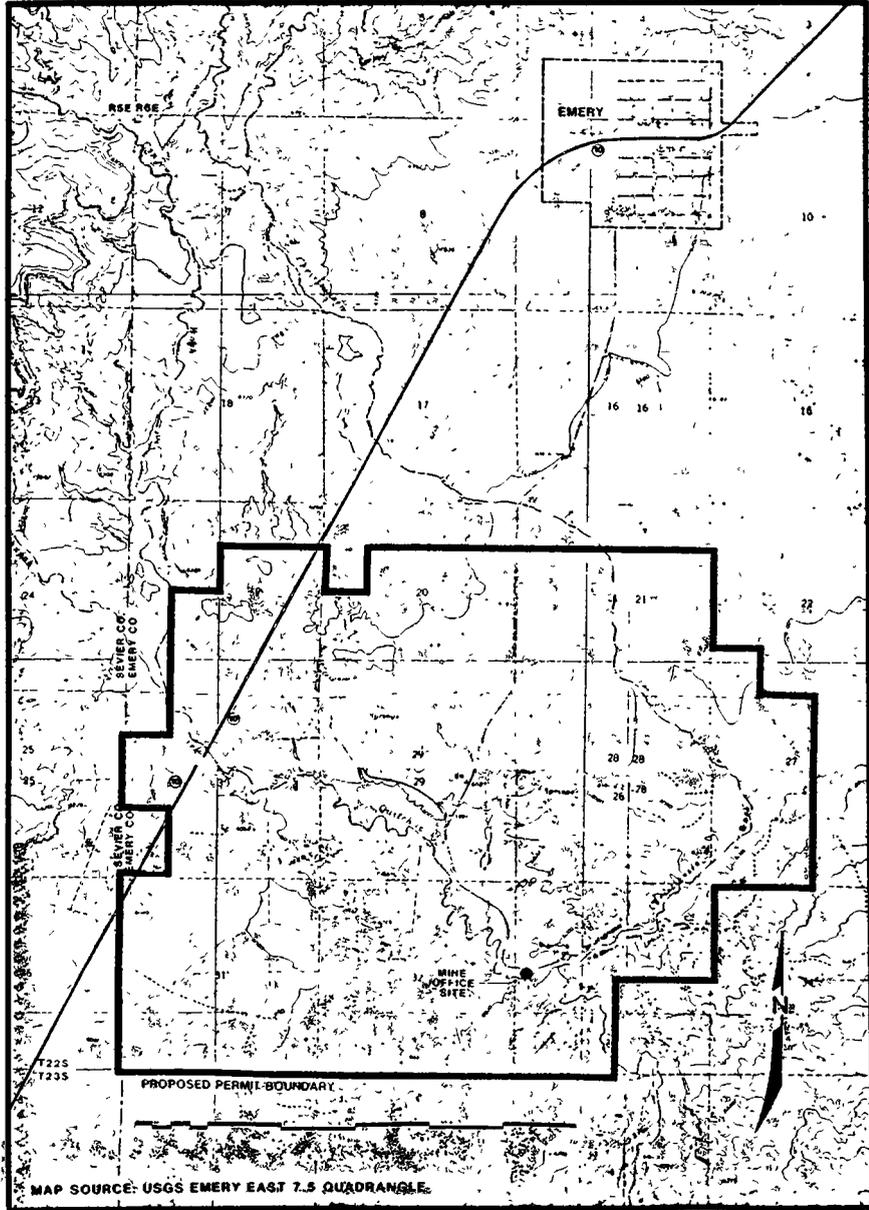
10th day of June

Carabelle Ann
Nota

My Commission expires My Commission Expires Oct

Residing at F

Publication fee, \$ 160.80



JUN 13 1981

DIVISION OF OIL, GAS & MINING

AFFIDAVIT OF PUBLICATION

STATE OF UTAH }
County of Emery, } ss.

I, Robert L. Finney, on oath, say that I am
the Publisher of The Emery County Progress,
a weekly newspaper of general circulation, published at Castle Dale,
State and County aforesaid, and that a certain notice, a true copy
of which is hereto attached, was published in the full issue of
such newspaper for Four (4)
consecutive issues, and that the first publication was on the
20th day of May, 19 81 and that the
last publication of such notice was in the issue of such newspaper
dated the 10th day of June, 19 81.

Robert Finney

Subscribed and sworn to before me this

10th day of June, 19 81.

Isabelle Toney
Notary Public.

My Commission expires My Commission Expires October 26, 1983

Residing at Price, Utah

Publication fee, \$ 160.80

1981
JUN 13 1981

DIVISION OF
OIL, GAS & MINING



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
1860 LINCOLN STREET
DENVER, COLORADO 80295

File ACT/015/015
Copy to Sally

JIM

DEC 28 1981

December 28, 1981

U.S. ENVIRONMENTAL PROTECTION AGENCY/STATE OF UTAH
PUBLIC NOTICE OF A NEW SOURCE DETERMINATION
FOR AN NPDES PERMIT APPLICANT

PURPOSE OF PUBLIC NOTICE

THE PURPOSE OF THIS NOTICE IS TO STATE EPA'S INITIAL DETERMINATION THAT THE EMERY MINE PREPARATION PLANT PROPOSED BY CONSOLIDATION COAL COMPANY, WILL CONSTITUTE A NEW SOURCE WITHIN THE MEANING OF SECTION 306(a)(2) OF THE CLEAN WATER ACT.

APPLICANT INFORMATION

APPLICANT NAME:	CONSOLIDATION COAL COMPANY EMERY MINE PREPARATION PLANT
MAILING ADDRESS:	2 INVERNESS DRIVE EAST ENGLEWOOD, COLORADO 80112
FACILITY LOCATION:	EMERY, UTAH
TELEPHONE NUMBER:	303+770-1600
APPLICATION NUMBER:	UT-0024040

The application submitted by Consolidation Coal Company is for a coal preparation plant, referred to as the Emery Mine Preparation Plant, to be located in Emery, Utah. The proposed discharges from the plant will consist of storm water runoff from surface facilities (Outfall 001) and emergency storm runoff overflow from coal waste slurry (Outfall 002). Under normal operation conditions there will be no discharge from Outfall 002. Treated waste water from the plant would discharge to Quitcupah Creek which is tributary to Muddy Creek.

In accordance with Section 306(a)(2) of the Clean Water Act and regulations promulgated thereunder (40 CFR 122.3 et. seq.), the applicant is subject to "Standards of Performance for New Sources" and must comply with the "New Source" environmental review requirements of the National Environmental Policy Act (NEPA) and its regulations. The information necessary for a proper environmental review shall be provided by the applicant. The U.S. Environmental Protection Agency shall evaluate this environmental information as to the significance of any impacts anticipated and as to whether an Environmental Impact Statement (EIS) will be necessary.

Any interested person may submit a written request to the Regional Administrator for an evidentiary hearing to reconsider or contest this new source determination (Subpart E Part 124 of the Federal Regulations).

Such requests should be submitted anytime prior to January 28, 1982. Requests should be directed to the U.S. Environmental Protection Agency, Region VIII, Enforcement Division, Water and Hazardous Waste Enforcement Branch, 1860 Lincoln Street, Denver, Colorado 80295.

All requests received prior to January 28, 1982, will be considered in making the final determination.

Additional information may be obtained upon request by calling 303+837-4901, or by writing the aforementioned address.

Public Notice Number UT-81-011

ENVIRONMENTAL PROTECTION AGENCY
REGIONAL OFFICE
DENVER, COLORADO
JAN 28 1982
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
1650 LINCOLN STREET
DENVER, COLORADO 80235

FEB 12 1982

December 28, 1981

UT811221-050

U.S. ENVIRONMENTAL PROTECTION AGENCY/STATE OF UTAH
PUBLIC NOTICE OF A NEW SOURCE DETERMINATION
FOR AN NPDES PERMIT APPLICANT

PURPOSE OF PUBLIC NOTICE

THE PURPOSE OF THIS NOTICE IS TO STATE EPA'S INITIAL DETERMINATION THAT THE EMERY MINE PREPARATION PLANT PROPOSED BY CONSOLIDATION COAL COMPANY, WILL CONSTITUTE A NEW SOURCE WITHIN THE MEANING OF SECTION 306(a)(2) OF THE CLEAN WATER ACT.

APPLICANT INFORMATION

APPLICANT NAME:	CONSOLIDATION COAL COMPANY EMERY MINE PREPARATION PLANT
MAILING ADDRESS:	2 INVERNESS DRIVE EAST ENGLEWOOD, COLORADO 80112
FACILITY LOCATION:	EMERY, UTAH
TELEPHONE NUMBER:	303+770-1600
APPLICATION NUMBER:	UT-0024040

The application submitted by Consolidation Coal Company is for a coal preparation plant, referred to as the Emery Mine Preparation Plant, to be located in Emery, Utah. The proposed discharges from the plant will consist of storm water runoff from surface facilities (Outfall 001) and emergency storm runoff overflow from coal waste slurry (Outfall 002). Under normal operation conditions there will be no discharge from Outfall 002. Treated waste water from the plant would discharge to Quitcupah Creek which is tributary to Muddy Creek.

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JK

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Additional information may be obtained upon request by calling 303+837-4901, or by writing the aforementioned address.

Public Notice Number UT-81-011

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