



State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

Representatives Present During the Inspection:

OGM	Joe Helfrich	Environmental Scientist III
OGM	Priscilla Burton	Environmental Scientist III
OGM	Steve Christensen	Environmental Scientist II
Company	Russell Hardy	
Company	Karla Knoop	Consultant

Inspection Report

Permit Number:	C0150015
Inspection Type:	TECHNICAL
Inspection Date:	Wednesday, June 13, 2007
Start Date/Time:	6/13/2007 10:00:00 AM
End Date/Time:	6/13/2007 12:30:00 PM
Last Inspection:	Thursday, May 31, 2007

Inspector: Priscilla Burton, Environmental Scientist III

Weather: Sunny, slight breeze 80

InspectionID Report Number: 1319

Accepted by: dhaddock
7/9/2007

Permittee: **CONSOLIDATION COAL CO**
 Operator: **CONSOLIDATION COAL CO SESSER OPERATIONS**
 Site: **EMERY DEEP MINE**
 Address: **PO BOX 566, SESSER IL 62884**
 County: **EMERY**
 Permit Type: **PERMANENT COAL PROGRAM**
 Permit Status: **ACTIVE**

Current Acreages

5,568.00	Total Permitted
62.50	Total Disturbed
	Phase I
	Phase II
	Phase III

Mineral Ownership

- Federal
- State
- County
- Fee
- Other

Types of Operations

- Underground
- Surface
- Loadout
- Processing
- Reprocessing

Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

The condition of the field above the 14th west panel and spring SP-10 was evaluated with the Permittee, and landowner, Brett Carter. The adjacent [downstream] landowner, Morgan Robertson was also present. The Permittee located the established sampling point for SP-10. Springs SP 11 and SP-12 shown on Plate VI-2/VI-2A were also observed. Current landownership and that shown on Plate I-1 was discussed. Revision of water rights was requested to show all the water rights in the mined area. Subsidence of six inches had been recorded at the monitoring point in the pasture above SP-10.

Inspector's Signature

Date

Friday, June 29, 2007

Priscilla Burton, Environmental Scientist III

Inspector ID Number: 37

Note: This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
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File in:

- Confidential
- Shelf
- Expandable

Refer to Record No. 0031 Date 071007

In C/ 0150015 Outgoing
For additional information

REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
 - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
 - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1. Permits, Change, Transfer, Renewal, Sale

During the last technical visit, on 5/31/07, we discovered the incorrect location of SP-10 shown on the pre-subsidence survey map, Figure 2, Appendix VIII - 3. (This error has since been corrected.) In addition, over the last decade, the reporting of no flows for this spring during the winter months called into question whether a spring associated with water right 94-30 was being sampled as SP-10. Water rights maps were obtained from the Division of Water Rights (copies provided to the landowner with a copy of this report). The mine plan water rights map does not show all water rights issued in the area and this must be updated. The 1986 adjudication document for associated water right 94-1193, showing the year long stockwatering use of 0.011 cfs was discussed with those present. Also discussed was the application to Construct a Dam Impounding Less Than 20 Acre-Feet, dated 1986. Both documents are attached to this inspection report.

4.a Hydrologic Balance: Diversions

The water rights maps also showed historical irrigation use. The defunct point of diversion from the defunct dam was photographed. The landowner has the water right to re-establish both structures in the future. Ms. Burton from the Division provided two water right maps of the Emery Mine area courtesy of Marc Stillson of the Utah Division of Water Rights Price Office. Mr. Christensen had requested that Water Rights evaluate the most up to date water right information for the Emery Deep's permit and adjacent area and to provide a comprehensive map. One of the maps provided, Utah Division of Water Rights Hydrographic Survey Map, Map No. 29, 30, 31, 32-22S-6E-SL, 1986 depicts water rights #94-30 and #94-1193 at springs SP-10, SP-11 and SP-12 (as identified by the Permittee on Plate VI-6 of the MRP). The water right map labels the springs #1, #2 and #3 for springs SP10, SP-11 and SP-12 respectively. The second map from Mr. Stillson of Water Rights, Emery Deep Mine Near Town of Emery Utah, 2007, also depicts water rights #94-30 and #94-1193 at springs SP-10, SP-11 and SP-12. Plate VI-6 of the MRP depicts the locations of water rights within and adjacent to the Emery Deep Mine permit area. Upon comparing Plate VI-6 with the aforementioned Water Right Maps, discrepancies were identified. Plate VI-6 depicts water right "#94-1193, 302" at the site of spring SP-11. Springs SP-10 and SP-12 are not shown on Plate VI-6. It is unclear as to what the "302" is referring to. Mr. Carter requested copies of the two Water Right Maps previously discussed. The Division agreed to facilitate that request.

During the inspection of SP-10, water was observed to be percolating out of the ground at the bottom of the drainage. Upon inspection of the flow coming from the ground, a metal pipe could be felt approximately 6" below grade. The pipe was not visible, however it could be clearly felt. It appeared to be an approximately 4-6" inner diameter steel pipe and flow was discharging from it. Mr. Carter indicated that he was not aware of the pipe and did not know what its intended function was. Additional flows contributing to the area surrounding SP-10 were observed seeping from the toes of the slopes on either side of the SP-10. Accurate flow estimations were not possible in this area as the flow was diffuse. Mr. Carter indicated that he had stopped irrigating the fields to the northeast of the spring approximately two weeks prior to the inspection. Mr. Carter said that he was currently irrigating the fields located west of SP-10 and that a water filled ditch was reporting to the head of the drainage. The connection between the ditch, up gradient flood irrigated fields and the pipe issuing the spring is still unknown.

Located directly above the drainage containing spring SP-10 are the remnants of a structure. Mr. Carter said that he believed a farmhouse was once located there. Mr. Carter indicated that the inhabitants of the structure might have used the pipe at the location of SP-10 to pump the water back up gradient to be utilized again. However, at this time no one can say with certainty what function the pipe currently serves or served in the past.

Springs SP-11 and SP-12 were observed as well. Both springs appeared to be exhibiting similar flows as SP-10 with additional contributions of water being supplied

from seeps at the toe of the slope.

4.d Hydrologic Balance: Water Monitoring

Mr. Hardy and Mr. Christensen inspected the sampling point approximately 1/8th of a mile down gradient from spring SP-10. The sampling point was located at the remnants of the dam that had been constructed in the drainage to detain irrigation flow. According to Mr. Hardy, the flow is monitored at a narrow point within the washed out dam. Photos were taken of the site. According to the pre-subsidence survey submitted by the Permittee as well as from information obtained by Mr. Carter, the dam had been washed out and subsequently rebuilt several times over the years. Currently the dam is not functioning. Mr. Hardy indicated that the washed out dam was the sampling point for spring SP-10. Mr. Carter and Mr. Robertson stated that spring SP-10 flowed continuously 12 months out of the year and that approximately 100 head of cattle wintered in the area due to the abundant source of water even though the irrigation water is shut off in September. The spring appeared to be flowing approximately 30-50 gallons per minute at the time of inspection. Mr. Christensen and Mr. Hardy discussed the need for obtaining accurate flow information at the site as the Permittee has recorded quarterly "no flow" readings for several years in the DOGM water quality database. The area around and down stream from the spring 1/2 to 3/4 of a mile is a "jurisdictional wetland" according to the site evaluation conducted by Hollis Jenks from the Army Corps of Engineers. According to John Gefferth the spring, sp10, would probably not flow when the irrigation water is shut off and thus would be a non jurisdictional man made wetland. In addition Consol is currently conducting full extraction mining under spring sp10 which would further complicate the ability to demonstrate that the spring flows in direct response to the deposition of up gradient irrigation water.

9. Protection of Fish, Wildlife and Related Environmental Issues

Deer were observed using the adjacent springs SP-11 and SP-12 which are springs 2 and 3 listed in water right 94-30. Spring SP-11 emanated from the entire contact with gravels at the head of the wash, with a steady stream flowing down the center of the wash. The pasture above SP-11 had not been irrigated for 2 - 4 weeks, according to Mr. Carter. Tall fescue, meadow brome and alfalfa grow in the fields.

10. Slides and Other Damage

The Permittee had recorded subsidence of six inches at the subsidence monument at the head of the SP-10 drainage. Mr. Carter stated that a portion of his field above the SW side of panel #14 was not receiving water and may have subsided unevenly. The Permittee agreed to evaluate the subsidence in this location. The Permittee and landowner had an agreeable working relationship.

22. Other

Landowners, Carter and Robertson, sketched the current property boundary lines on Plate I-1. The Permittee will include a revised Surface Ownership Plate I-1 in the next submittal, due August 3, 2007. Discussions with Mr. Carter and Robinson included current and postmining land use conditions. They both indicated that they wanted the land especially the springs sp10,11 and 12 and the wildlife and their associated habitat to remain status quo during and after their land is mined under. They also indicated that the land use in addition to agriculture and grazing is wildlife and they enjoy the presence of wild life species particularly the deer that frequent their springs, alfalfa fields, wetlands and wet meadow areas. As noted in section 4d the year around flow of spring sp10 supports cattle as well as the wildlife in the area.

IN THE SIXTH JUDICIAL DISTRICT COURT, IN AND FOR THE
COUNTY OF WAYNE STATE OF UTAH

IN THE MATTER OF THE GENERAL DETERMINATION
OF RIGHTS TO THE USE OF WATER, BOTH SURFACE AND
UNDERGROUND, WITHIN THE DRAINAGE AREA OF THE
COLORADO RIVER IN KANE, GARFIELD, WAYNE, PIUTE,
EMERY, SEVIER AND SANPETE COUNTIES, UTAH, AND
EXCLUSIVE OF THE GREEN RIVER AND VIRGIN RIVER
DRAINAGES.

STATEMENT OF WATER
USER'S CLAIM

CODE NO. SERIAL NO.

94 1193

MAP NO. 29,30,31,32-225-6E-SL

NOTE: This blank is sent to you in accordance with Utah Law. The information called for herein will be used in connection with the adjudication of water rights on the above mentioned drainage area. All questions applicable to your claim must be answered fully, and one copy of this form must be filed with the Clerk of the District Court at Loa., Utah, within sixty (60) days from date of service of the attached Notice. A copy shall be filed with the State Engineer, State Capitol, Salt Lake City. Failure to file the attached Statement of the Water User's Claim with the Clerk of the District Court within the time stated will forever bar and estop you from asserting any right to the use of water from said drainage area.

- Title Change*
- Name of Claimant Earl B. Bryant Interest Claimed Full
 - Address 10019 Bordeaux Avenue
Arleta, California 91331
 - Name of particular spring, stream, well, tunnel or drain from which water is diverted is Unnamed Springs in Emery County.
 - Priority date claimed 1880-1879 Date when water was first used
Date when work on diverting system was first begun _____ Date when diverting system was completed _____
Nature of work _____
 - Class of Right (Indicate by X):
(a) Right to surface water initiated by beneficial use before 1903 Claim No. NCF
(b) _____ Right to underground water initiated before 1935 Claim No. _____
(c) _____ Right decreed by court, cite title of case _____
(d) _____ Application filed, State Engineer's Office No. _____ Cert. of App. No. _____
(e) _____ Right acquired by adverse use prior to 1939 _____
 - Nature (Indicate by X), Amount, and Annual Period of Use (by month & day):
(a) _____ Irrigation Sec. Ft. _____ from _____ to _____ (both dates incl.)
(b) Stockwatering Sec. Ft. 0.011 from January 1 to December 31 (both dates incl.)
(c) _____ Domestic Sec. Ft. _____ from _____ to _____ (both dates incl.)
(d) _____ Municipal Sec. Ft. _____ from _____ to _____ (both dates incl.)
(e) _____ Sec. Ft. _____ from _____ to _____ (both dates incl.)
 - Direct Flow Appropriation (must be described with reference to U. S. Government Survey Corner)
(a) Point of diversion from spring, spring area, stream, well, tunnel, drain 1) S. 770 ft. & E. 370 ft.;
2) S. 875 ft. & W. 470 ft.; 3) S. 1040 ft. & W. 1050 ft.; all from N $\frac{1}{2}$ Cor.
Sec. 29, T22S, R6E, SLB&M.
(b) Description of spring area _____
(c) Point of redirection or point of return to natural channel _____
(d) If flow is intermittently diverted, list by number or description, all rights involved _____
 - Where water is used for irrigation purposes:
(a) Area irrigated in legal subdivisions of land by 40-acre tract. (All sources of water for same land or lands must be described in each instance by name or claim number) _____

(b) Do you get water under a ditch owned by several users. _____ If so, give names of all users and divisions of interest _____
 - Where water is used for Stockwatering:
(a) Number of each kind of stock watered 94-1192, 1193: 200 Cattle
(b) All sources of water for same stock. (Describe by name or claim number)
NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 29, T22S, R6E, SLB&M.
 - Where water is used for Domestic:
(a) Number of families or their equivalent _____ All sources of water for same use.
(Describe by name or claim number) _____

11. Where water is used for Municipal Purposes:
 (a) Name of city or town supplied Population
 Number of families Quantity of water
12. Where water is used for a purpose not above enumerated:
 (a) Nature of Use Extent of Use
13. Appropriation for Storage Purposes:
 (a) Name of reservoir
 (b) Location of reservoir by legal subdivisions described by 40-acre tracts
 (c) Maximum capacity of reservoir in acre feet; Year construction commenced
 Completed; Water first used Is reservoir located on or off stream.....
 (d) Period of Storage from to (both dates incl.). Period of use from
 to (both dates incl.). Maximum area in acres inundated Max. depth in feet.....
 Average depth in feet..... Is reservoir drained each year..... Maximum number of fillings per
 year..... Is reservoir used for equalizing purposes..... If feeder canal is used, give maximum
 carrying capacity in sec. ft.....
14. Diverting Works:
 (a) Surface water diverting dam: Material composed of
 Max. length..... Max. height..... Max. width at bottom..... Max. width
 at top.....
 (b) Underground water diverting works: Is well flowing or pump..... Depth of well.....
 Diameter of well..... Length of drain..... Width of drain Depth of drain.....
 Diameter of drain..... Length of tunnel Width of tunnel..... Height of tunnel.....
 Type of pump..... Capacity of pump.....
 (c) Surface and underground water conveying works: Length of ditch to first place of use..... Width of
 ditch at top Width of ditch at bottom..... Depth of water..... Grade of
 ditch per 1000 ft..... Material through which ditch passes..... Maximum length of
 pipe line to first place of use..... Diameter of pipe line Grade of pipe line per
 1000 feet.....
15. The undersigned hereby enters his appearance and waives service of summons or other process.

STATE OF UTAH

} SS. (To be used if claimant is an individual)

COUNTY OF

..... being first duly sworn, upon oath deposes and says that he is the claimant
 whose name appears hereon, that he has read the foregoing statement of his claim and knows the contents thereof, that
 he has signed the same, and that the answers set forth therein are true to his best knowledge and belief.

Received Nov. 10, 1986 *S/N Earl B. Bryant* *Nov. 7, 1986*
 Signature of Claimant

Subscribed and sworn to before me this day of 19.....

NOTARY PUBLIC

STATE OF UTAH

} SS. (To be used if claimant is a corporation or an estate)

COUNTY OF

..... being first duly sworn, upon oath deposes and says that he is the.....
 of the above claimant, that he makes this certification on behalf of said
 claimant, that he has read the foregoing statement of claim and knows the contents thereof, and that he has signed the name
 of said claimant to said statement, that the answers set forth therein are true to his best knowledge and belief.

Subscribed and sworn to before me this day of 19.....

NOTARY PUBLIC

84

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

NOV 19 1986

WATER RIGHTS
PRICE

STATE OF UTAH

Application No. _____
Received _____
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Earl B. Bryant
ADDRESS 10019 Bordeaux Avenue
CITY Arleta STATE California ZIP CODE 91331

2. PURPOSE OF DAM

STOCK POND IRRIGATION _____
REGULATING RES. DEBRIS BASIN _____
DIVERSION DAM _____ FLOOD CONTROL _____
SEDIMENTATION _____ TAILINGS POND _____
RECREATION _____
OTHER (describe) _____

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) SW $\frac{1}{4}$ NE $\frac{1}{4}$ SECTION 29
TOWNSHIP 22S RANGE 6E BASE & MERIDIAN SLB&M

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 19 FEET
CREST LENGTH (length of top of dam) 140 FEET
CREST WIDTH (width of top of dam) 20 FEET
UPSTREAM SLOPE One VERTICAL ON Two HORIZONTAL
DOWNSTREAM SLOPE One VERTICAL ON One HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 1.72 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 6.88 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) Earthfill

5. PROPOSED OUTLET

INSIDE DIAMETER 12 INCHES LENGTH 18 FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) Corrugated metal
TYPE OF GATE OR VALVE Wheel gate control
LOCATION OF GATE (upstream, downstream, center, etc.,) Upstream

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) _____ FEET
DEPTH (from bottom of spillway to top of dam) Two FEET
TYPE (i.e. earth channel, pipe, etc.,) Pipe (6" pvc)
CONTROL (i.e. gates, flashboards, etc.,) Uncontrolled

7. WATER RIGHTS

DESCRIBE (See Instructions) 94-30 for irrigation and 94-1193 for stockwatering, also shares of stock in Muddy Creek Irrigation Company.

8. COMMENTS

This is called the Bench Pond and was constructed a number of years ago under 94-30 (prior to 1946). The spillway consists of a pvc pipe through the embankment. This pond is off channel except for the flow produced by the spring covered under 94-30.

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application.

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

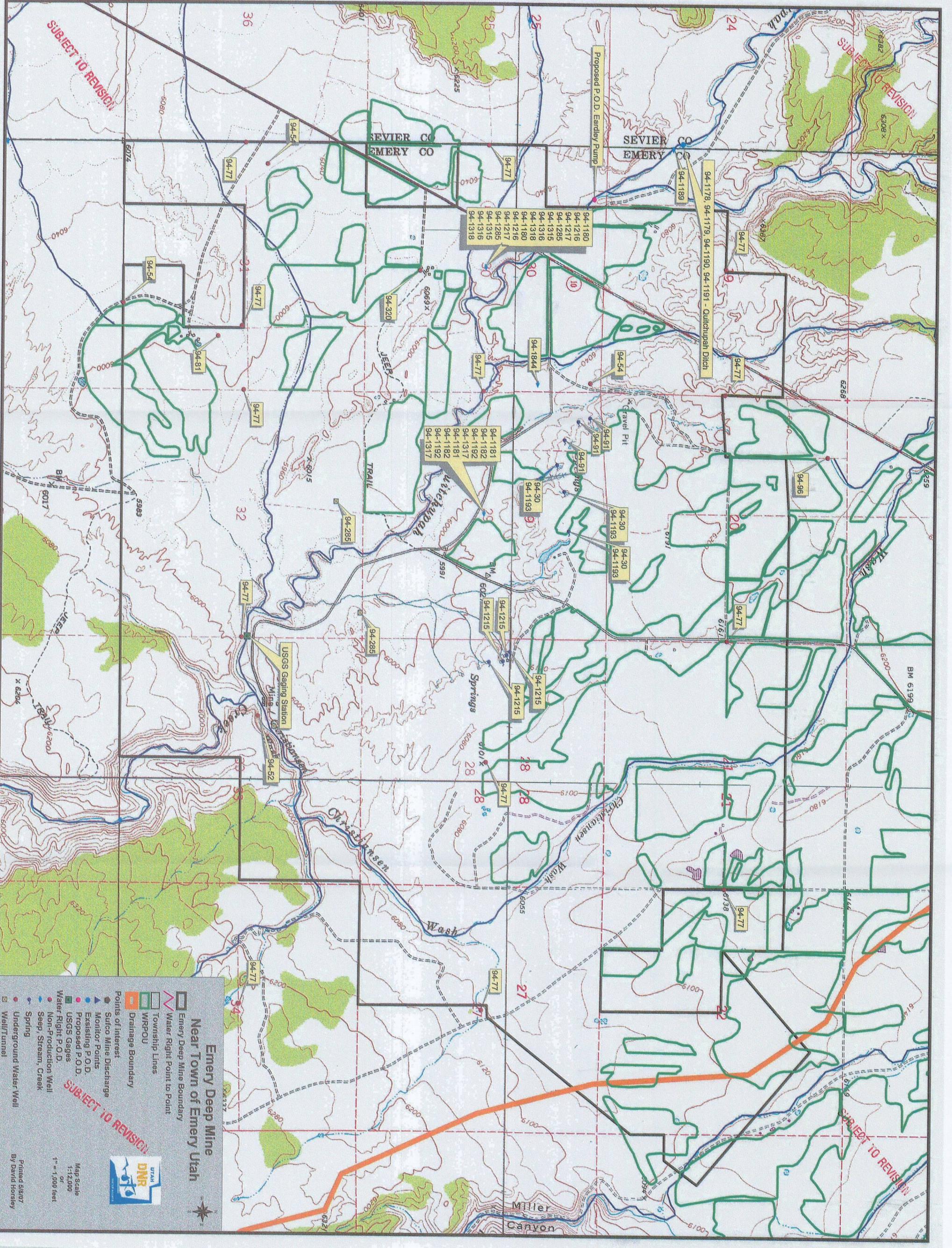
Nov-17-86
Date

Earl B Bryant
Signature of Applicant

Water Rights in Order By MP Date 11-13-86
Area Engineer's Hazard Rating Low
Reviewed by Dam Safety By SLA Date 12-1-86
Comments _____

Date of Approval Dec. 1, 1986

Robert L. Morgan
Robert L. Morgan, P.E.
State Engineer

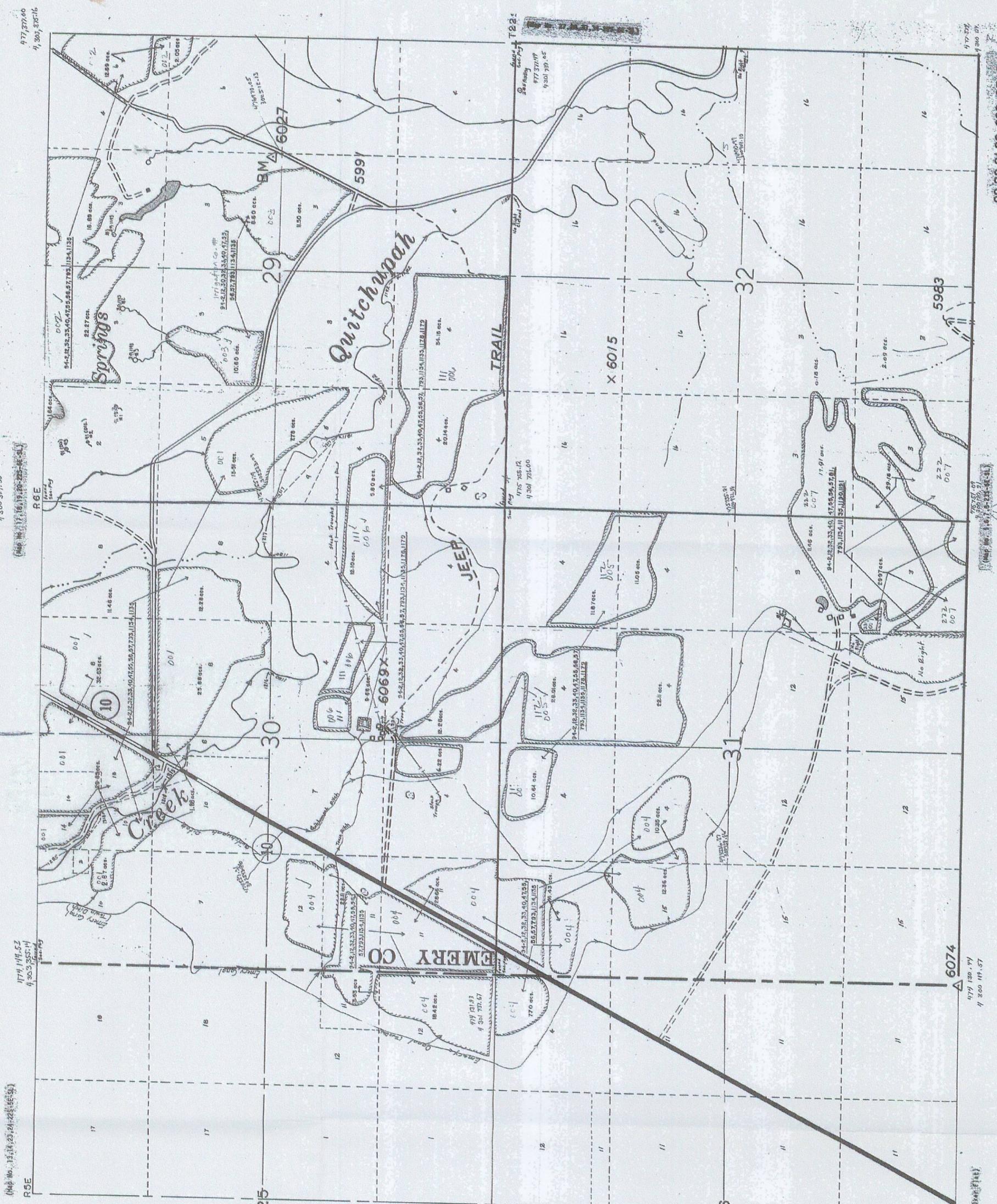


**Emery Deep Mine
Near Town of Emery Utah**

- Emery Deep Mine Boundary
- Water Right Point to Point
- Township Lines
- WR/POU
- Drainage Boundary
- Points of Interest
- Sutro Mine Discharge
- Monitor Points
- Existing P.O.D.
- Proposed P.O.D.
- USGS Gages
- Water Right P.O.D.
- Non-Production Well
- Seep, Stream, Creek
- Spring
- Underground Water Well
- Well/Tunnel

Map Scale
1:12,000
or
1" = 1,000 feet

Printed 5/10/07
By David Horsley



- Map 29, 30, 31, 32-225-6E-SL
1. USA
 2. Emery County
 3. John S. Lewis III
 4. George S. Olsen et al
 5. Randall D. Jensen et al
 6. Arthur L. Petty
 7. Consolidated Home Coal Co. - 50%
 8. Kemmerer Coal Co. - 50%
 9. Ralph Lewis
 10. George U. Lewis
 11. Robert T. Lewis
 12. George S. Olsen
 13. Stephen L. Browning
 14. Consolidation Coal Co. - 50%
 15. Pittsburgh-Midway Coal Co. - 50%
 16. Pittsburgh-Midway Coal Co. - 50%

Utah Division of Water Rights
 Hydrographic Survey Map
 Drainage/Guadalupe Muddy Creek
 Map No. 29, 30, 31, 32-225-6E-SL
 Scale: 1 inch = 500 feet
 Compiled: 1966 by Lamond Gardner, Blaine Iron

29,30,31,32-225-6E-SL

477, 377, 00
 4, 303, 335, 16

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