

5 June 1987

Condition No. One

Valley Camp commits to quarterly sampling of all perennial streams. Dissolved oxygen, settleable solids, and acidity will be added to the sample parameters for each of the quarterly stream samples. Additionally, two of the samples each year will be tested for total hardness, iron, and total manganese.

Spring depletion curves were included in the annual report submitted February 26, 1986.

File with
1988 Annual
Report
ACT/007/001 #6

5 June 1987

Condition No. Five

The amount of available material has already been determined and samples analyzed. The general details of substitute topsoil origin, destination, and volumes have already been determined. Therefore, a mass balance table is not necessary.

Condition No. Six

See Comments under No. Five.

The maps and drawings listed below are to be included in the Valley Camp of Utah, Inc. mining permit application were prepared under my supervision, and to the best of my knowledge can be certified as correct.

Drawings

No. A4-0128 (Fig. 3-33)

No. A4-0130 (Fig. 3-35)

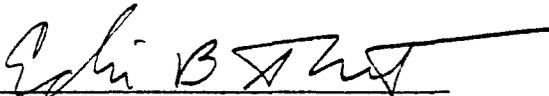
No. A5-0077 Rev. L

No. A5-0129 (Fig. 3-34)

Maps

D4-0084 Rev. 2

D4-0085 Rev. 2



Edwin B. Foust P.E.
Utah Registration #05323-0916-0

6/8/87
Date

UMC 817.153-.157ROAD HAZARD MONITORING PLAN -
BELINA HAUL ROAD

The intent of this plan is to monitor the stability of the critical fill areas and provide for public awareness of the potential for landslides and road surface damage, along the Belina haul road.

To comply with the variance stipulation of the March 3, 1987 correspondence from Lowell Braxton (DOGM), Valley Camp commits to the following; (1) Placement of a warning sign at the entrance of the haul road, (2) Installment of visual movement indicators within the critical fill areas, (3) monitoring schedule, (4) Monitoring station location map.

The critical fill areas to be monitored are those described in the Morrison-Knudsen Engineer's Inc. report, submitted January 22, 1987, as part of the mid-permit term review. See Table 2.1 "Potentially Unstable Slopes" of that report for location of the areas to be monitored.

The station locations shown in Table 2.1, correspond with the CEI, Inc. Belina haul road design stationing, previously submitted to the Division.

The visual movement indicators (VMI) will be three quarter (3/4) inch roof bolts, four (4) to five (5) feet in length, driven to a supportive depth, placed on line and equally spaced

on the fill or slope material as conditions will allow. The VMI lines may be placed horizontally with or diagonally across the fill(s).

Due to the topography and linear distance between station locations, one or more lines may be necessary to accomplish the required coverage of the critical areas.

The normal monitoring schedule will be monthly when accessible or more frequently during high ground moisture periods. When significant movement is detected, monitoring will become bi-weekly until the slope stabilizes. The monitoring data will be submitted to the Division annually.

The Division shall be notified promptly when a slide or a significant road failure occurs.

5 June 1987

UMC 771.23 PERMIT APPLICATIONS - GENERAL REQUIREMENTS
FOR FORMAT AND COMMENTS

The MRP will be recompiled and inconsistencies eliminated as soon as practicable.

771.27 Vol. I

Verification of Application by Responsible Official of Applicant

STATE OF UTAH)
: ss.
COUNTY OF CARBON)

I, William H. Haynes, Jr., Vice President of Applicant, having been duly sworn, depose and state that I am authorized to complete and file this Application on behalf of Applicant and that all of the information contained in this Application is true and correct to the best of my information and belief.

William H. Haynes, Jr.
William H. Haynes, Jr.

Subscribed and sworn to before me this 23rd day of January, 1981.

[Signature]
NOTARY PUBLIC
Residing at: Helena, Mont.

My Commission Expires:
5-11-81

5 June 1987

UMC 782.13

INDENTIFICATION OF INTERESTS

(a) Page 12a (Figure 1-4), Volume I, Section 782.13 has been revised to show the ownership change from Larry O. Baer, Box 338, Gunnison, Utah 84634 to Brent Bawden, 1145 South 2030 East, Price, Utah 84501. The enclosed Page 12a, dated 5/29/87 replaces Page 12a (Figure 1-4) of Volume I, Section 782.13.

Page 10 of Volume I, Section 782.13 reflects the mine permit numbers for the Utah No. 2 and Belina No. 1 Mines, which were issued by the State of Utah in the original permit. Currently Valley Camp is operating under one mine permit number (ACT/007/001). Valley Camp will address this matter in its entirety at the end of the five (5) year period.

(a)(2) See Map A "Surface Ownership" in Volume IV, which clearly identifies all ownerships and boundaries.

It is unclear at this time which contiguous coal leases are not shown on Map A-1. Due to the scale of this map, Federal leases U-47974 and U-47975 have not been added, but are depicted on Figure 1-1-1, drawings No. A5-0069 Rev. 0, and are described in Volume V, Section 82.13-2, dated 9/14/83.

Figure 1-5 in Volume I, Section 782.13, dated 2/13/82 shows the BLM as owner of the Federal coal.

5 June 1987

(b)(3) This information was previously provided in UMC 782.13 and appendix B of Volume I.

(c) Officers and directors of Quaker State Oil Corporation are listed on enclosed Figure 1-3-(2).

Page No. 5a of UMC 782.13 of Volume I has been revised and is enclosed as a replacement.

(e) See comment 782.13 (a) above

(f) Page No. 11 of UMC 782.13 has been revised and is enclosed for insertion into Volume I.

Voyle & Emma Bagley, 1138 Bluebell Lane, Tempe, Arizona 85281

Louis & Anna Kosec, Route #1, Box 12, Helper, Utah 84526

Brent Bawden, 1145 South 2030 East, Price, Utah 84501

Skyline Land Company, Morris & Betty Cook, Box 232, Moroni,
Utah 84646

L.D.S. Church, 336 South Third East, Salt Lake City, Utah 84111

Utah Natural Gas, c/o Mountain Fuel Supply Company, P.O. Box
11368, Salt Lake City, Utah 84111

Valley Camp, Inc. has not operated any surface coal mining operation in the United States within the five years preceding the date of this application. Valley Camp, Inc. has operated underground coal mining operations during the stated time period under the same corporate name. A listing of those mines, associated permit numbers and regulatory agency responsible for such permits is found in Appendix B, Volume I.

Kanawha and Hocking Coal and Coke Company is also a subsidiary of the Valley Camp Coal Company, and provides rights necessary for conducting mining operations by Valley Camp of Utah, Inc., through various property agreements. A listing of the officers and directors for Kanawha and Hocking Coal and Coke Company is shown in Figure 1-3-1.

The resident agent for Kanawha and Hocking Coal and Coke Company is:

Walter L. Wright
President & Chief Operating Officer
Valley Camp of Utah, Inc.
Scofield Route
Helper, Utah 84526
(801) 448-9456

A listing of the officers and directors for Quaker State Oil Refining Corporation is shown on Figure 1-3-2.

OFFICERS OF QUAKER STATE OIL REFINING CORPORATION

<u>OFFICER</u>	<u>POSITION</u>	<u>ADDRESS</u>
QUENTIN E. WOOD	CHAIRMAN & CHIEF EXECUTIVE OFFICER	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
ROGER A. MARKLE	PRESIDENT & CHIEF OPERATING OFFICER	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
WALTER B. COOK	EXECUTIVE VICE PRESIDENT	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301

DIRECTORS OF QUAKER STATE OIL REFINING CORPORATION

<u>DIRECTOR</u>	<u>ADDRESS</u>
QUENTIN E. WOOD	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
ROGER A. MARKLE	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
WALTER B. COOK	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
FRANK J. CORDON	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
LEE R. FORKER	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
THOMAS A. GARDNER	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301

DIRECTORS OF QUAKER STATE OIL REFINING CORPORATION

<u>DIRECTOR</u>	<u>ADDRESS</u>
W. CRAIG McCLELLAND	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
KENTON E. McELHATTAN	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
WILLIAM J. McFATE	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
DELBERT J. McQUAIDE	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301
ROBERT R. PRICE	QUAKER STATE OIL REFINING CORPORATION P. O. BOX 989 OIL CITY, PA 16301

UMC 782.14

COMPLIANCE INFORMATION

(c) Page 16-18 describes Violation No. 17, State No. N84-7-2-10

(a) Violation 1 of 10 thru 10 of 10 as "Failure to Meet Effluent Limitations", in the January 1987 submittal.

UMC 782.18

PERSONAL INJURY AND PROPERTY DAMAGE
INSURANCE INFORMATION

The Insurance Company is required by law to submit this information annually. If the Division has not yet received an updated copy, one will be furnished upon request.

UMC 782.19

OTHER LICENSES AND PERMITS

The revised Page 4c, Figure 1-7 was submitted for Volume V in the January 1987 submittal.

AFFIDAVIT OF PUBLICATION

STATE OF UTAH }
 County of Emery, } ss.

I, Dan Stockburger on oath, say that I am
 the General Manager 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
28th day of September, 19 83 and that the
 last publication of such notice was in the issue of such newspaper
 dated the 19th day of October, 19 83

Dan Stockburger
 Subscribed and sworn to before me this
19th day of October, 19 83

Holly J. Baker
 Notary Public.

My Commission expires My Commission Expires October 22, 1986
 Residing at Price, Utah

Publication fee, \$ 278.40

PROPOSED PUBLIC NOTICE FOR FILING UNDERGROUND MINING PERMIT APPLICATIONS

Valley Camp, Inc., wishes to advise the public that it has filed an Underground Mining Permit Application with the State of Utah Department of Natural Resources, Division of Oil, Gas and Mining, and the Office of Surface Mining Reclamation and Enforcement, United States Department of Interior. Valley Camp further advises the public of the following:

- The full name and business address of the applicant is:
 Valley Camp of Utah, Inc.
 Scofield Route
 Helper, UT 84526
- The Valley Camp of Utah, Inc. permit area is located in Carbon and Emery Counties, Utah, approximately 2.0 miles south of Scofield, Utah, 20 miles (50 miles by road) northwest of Price, Utah, and 110 miles southeast of Salt Lake City, Utah, (see Figure 1-1 for general area location). Scofield is situated in Pleasant Valley and is accessible by an all-weather road, State Highway 96. This highway intersects U.S. Highways 6 & 50 at Colton Junction, approximately 15 miles northeast of Scofield, Utah. From Colton Junction, U.S. Highways 6 & 50 bear northwesterly to the Interstate 15 Junction at Spanish Fork, Utah. From Colton Junction southeastward, U.S. Highways 6 & 50 follow Price Canyon to Price, Utah.

The Valley Camp, Inc., property is located approximately 2 miles south of Scofield, and extends from Green Canyon on the north to Cox Canyon on the south.

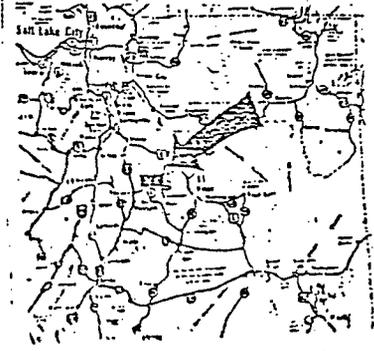
3. The land areas contained in the permit application are more fully described as follows:

- T14S R7E
 Section 7 NW 1/4, and NW 1/4 of NE 1/4
 Section 6 W 1/2, and W 1/2 of E 1/2
- T14S R6E
 Section 1 E 1/2 NE 1/4, and NE 1/4 of SE 1/4
- T13S R7E
 Section 31 SW 1/4, and W 1/2 of NW 1/4
 Section 20 W 1/2 of W 1/2, SE 1/4 of SW 1/4, and NE 1/4 of NW 1/4
- Section 21 Portions of NW 1/4 of NW 1/4
 Section 20 Portions of NE 1/4 of NE 1/4
 Section 18 S 1/2 of SW 1/4, NE 1/4 of SW 1/4 and portions of W 1/2 of E 1/2, E 1/2 of NW 1/4, and NE 1/4 of NE 1/4
- Section 18 S 1/2 of SE 1/4, and SE 1/4 of SW 1/4
- Section 17 NE 1/4, excluding portions of SW 1/4 NE 1/4 and NE 1/4 NE 1/4 N 1/2 SE 1/4 and portions of S 1/2 SE 1/4
- Section 16 W 1/2 of W 1/2, NE 1/4 of NW 1/4, NW 1/4 of NE 1/4
- Section 9 W 1/2 of SW 1/4
- Section 8 E 1/2 of SE 1/4, and a portion of SW 1/4 of SE 1/4
- T13S R6E
 Section 36 All
 Section 35 Portions of E 1/2 of E 1/2, and SW 1/4 of SE 1/4
- Section 25 E 1/2 and portions of W 1/2
- Section 24 SE 1/4 and portions of S 1/2 of NE 1/4, NW 1/4 NE 1/4, and E 1/2 and SW 1/4

- All lands associated with this application are shown on the Scofield, Utah, 7 1/2 minute USGS quadrangle map.
- A copy of the application will be available for public inspection at the Carbon and Emery Counties Recorders' Office.
- Written comments on the proposed application may be submitted to:

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

GENERAL LOCATION MAP OF
MINE PLAN AREA
VALLEY CAMP OF UTAH, INC.



AFFIDAVIT OF PUBLICATION

STATE OF UTAH }
County of Carbon, } ss.

I, Dan Stockburger on oath, say that I am
the General Manager of The Sun-Advocate,
a weekly newspaper of general circulation, published at Price,
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
28th day of September 19 83 and that the
last publication of such notice was in the issue of such newspaper
dated the 19th day of October 19 83

Dan Stockburger

Subscribed and sworn to before me this
19th day of October 19 83

Haley J. Baker
Notary Public.

My Commission expires My Commission Expires October 22, 1986 19

Publication fee, \$ 280.80

PROPOSED PUBLIC NOTICE FOR FILING UNDERGROUND MINING PERMIT APPLICATIONS

Valley Camp, Inc. wishes to advise the public that it has filed an Underground Mining Permit Application with the State of Utah Department of Natural Resources, Division of Oil, Gas and Mining, and the Office of Surface Mining Reclamation and Enforcement, United States Department of Interior. Valley Camp further advises the public of the following:

1. The full name and business address of the applicant is:

Valley Camp of Utah, Inc.
Scofield Route
Helper, UT 84526

2. The Valley Camp of Utah, Inc. permit area is located in Carbon and Emery Counties, Utah, approximately 2.0 miles south of Scofield, Utah, 20 miles (50 miles by road) northwest of Price, Utah, and 110 miles southeast of Salt Lake City, Utah, (see Figure 1-1 for general area location). Scofield is situated in Pleasant Valley and is accessible by an all-weather road, State Highway 96. This highway intersects U.S. Highways 6 & 50 at Colton Junction, approximately 15 miles northeast of Scofield, Utah. From Colton Junction, U.S. Highways 6 & 50 bear northwesterly to the Interstate 15 Junction at Spanish Fork, Utah. From Colton Junction southeastward, U.S. Highways 6 & 50 follow Price Canyon to Price, Utah.

The Valley Camp, Inc. property is located approximately 2 miles south of Scofield, and extends from Green Canyon on the north to Cox Canyon on the south.

3. The land areas contained in the permit application are more fully described as follows:

- T14S R7E
Section 7 NW 1/4, and NW 1/4 of NE 1/4
Section 6 W 1/2, and W 1/2 of E 1/2
- T14S R6E
Section 1 E 1/2 NE 1/4, and NE 1/4 of SE 1/4
- T13S R7E
Section 31 SW 1/4, and W 1/2 of NW 1/4
Section 30 W 1/2 of W 1/2, SE 1/4 of SW 1/4, and NE 1/4 of NW 1/4
- Section 21 Portions of NW 1/4 of NW 1/4
Section 20 Portions of NE 1/4 of NE 1/4
Section 19 S 1/2 of SW 1/4, NE 1/4 of SW 1/4 and portions of W 1/2 of E 1/2, E 1/2 of NW 1/4, and NE 1/4 of NE 1/4
- Section 18 S 1/2 of SE 1/4, and SE 1/4 of SW 1/4
Section 17 NE 1/4, excluding portions of SW 1/4 NE 1/4 and NE 1/4 NE 1/4 SE 1/4 and portions of S 1/2 SE 1/4
- Section 16 W 1/2 of W 1/2, NE 1/4 of NW 1/4, NW 1/4 of NE 1/4
- Section 9 W 1/2 of SW 1/4
Section 8 E 1/2 of SE 1/4, and a portion of SW 1/4 of SE 1/4
- T13S R6E
Section 35 All
Section 35 Portions of E 1/2 of E 1/4, and SW 1/4 of SE 1/4
Section 25 E 1/2 and portions of W 1/2
Section 24 SE 1/4 and portions of S 1/2 of NE 1/4, NW 1/4 NE 1/4, and E 1/2 and SW 1/4

4. All lands associated with this application are shown on the Scofield, Utah, 7 1/2 minute USGS quadrangle map.

5. A copy of the application will be available for public inspection at the Carbon and Emery Counties Records' Office.

6. Written comments on the proposed application may be submitted to:

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

Office of Surface Mining
U.S. Department of the Interior
Brooks Tower Second Floor
1625 15th Street
Denver, Colorado 80295

Published in the Sun Advocate September 28, October 5, 12 and 19, 1983.

GENERAL LOCATION MAP OF MINE PLAN AREA VALLEY CAMP OF UTAH, INC.



Belina No. 1	42-01279
Belina No. 2	42-01280
Coal Handling Facility	42-01995

There are no properties contiguous to the proposed permit area which are subject to any pending options or other undisclosed interests held or made by the applicant.

PERMANENT SEED MIXTURE
(North-East Facing Aspects)

SPECIES	PLS LBS/AC
Grasses:	
Agropyron trachycaulm - Slender wheatgrass	3.0
Bromus marginatus - Mountain brome	5.0
Poa Pratensis - Kentucky bluegrass	.25
Agropyron Smithii - Western wheatgrass	4.0
Poa Canbyi - Canby bluegrass	.4
	<hr/> 12.65
Forbs:	
Achillia millefolium - Yarrow	0.2
Penstemon strictus - 'Bandera' Rocky Mountain penstemon	0.5
Osmorhiza occidentalis - Sweet anise	1.0
Melilotus officinalis - Yellow sweetclover	2.0
Lupinus sericeus - Silky lupine	2.0
Hedysarum boreale - Northern sweetvetch	1.0
	<hr/> 6.7
Shrubs and trees:	
Prunus virginiana - Chokecherry	0.5
Symphoricarpos oreophilus - Mountain snow- berry	2.0
Sambucus coerulea - Blue elderberry	1.0
	<hr/> 3.5
HANDSETS (Plants per acre)	
Abies Concolor - White fir	200
Picea englemanii - Engleman spruce	200
Picea pungens - Blue spruce	150
	<hr/> 550

PERMANENT SEED MIXTURE

Utah No. 2 Area

SPECIES	PLS LBS/AC
---------	---------------

Grasses:

Agropyron smithii - Western wheatgrass	4.0
Agropyron dasystachyum - Thickspike wheatgrass	4.0
Bromus marginatus - Mountain brome	5.0
Poa pratensis - Kentucky bluegrass	0.2
* Linum lewisii - Blue flax	1.0
	14.2

Forbs:

Melilotus officinalis - Yellow sweetclover	2.0
Medicago sativa - Ladak alfalfa	1.5
Penstemon strictus - 'Bandera' Rocky Mountain penstemon	0.5
Artemisia ludoviciana - Prairie sage	0.1
	4.1

Shrubs and Trees:

Artemisia tridentata vaseyana - Mountain big sagebrush	0.1
Chrysothamnus nauseosus - Rubber rabbitbrush	0.5
Rosa Woodsii - Woods rose	1.0
	1.6

NOTE: Seed application is calculated for a broadcast application, and may be reduced if drill seeding is utilized.

Riparian areas within the permit area (1.5 ac. max.) will have the following shrubs and trees supplemented to the regular mixtures:

SPECIES:	NO./ACRE
Shrub - Mahonia repens - Creeping Oregon grape	300
Shrub - Rubus idaeus sachalinensis - American red raspberry	300
Tree - Salix rigida - Willow (cuttings)	2,000
Symphoricarpos albus - Common snowberry	300
	2,900

PERMANENT SEED MIXTURE
(South-West Facing Aspects)

SPECIES	PLS LBS/AC
---------	---------------

Grasses:

Agropyron riparium - Streambank wheatgrass	3.0
Agropyron dasystachyum - Thickspike wheatgrass	3.0
Bromus marginatus - Mountain brome	4.0
Poa Canbyi - Canby bluegrass	0.5
Poa pratensis - Kentucky bluegrass	0.1
* Linum lewisii - blue flax	1.0
	11.6

Forbs:

Achillia millefolium - Yarrow	0.2
Lupinus sericeus - Silky lupine	2.0
Melilotus officinalis - Yellow sweetclover	2.0
Penstemon strictus - 'Bandera' Rocky Mountain penstemon	0.8
Artemisia ludoviciana - Prairie Sage	0.1
	5.1

Shrubs and trees:

Amelanchier alnifolia - Serviceberry	2.0
Artemisia tridentata vaseyana - Mountain big sagebrush	0.2
Symphoricarpos oreophilus - Mountain snow- berry	2.0
Chrysothamnus nauseosus - Rubber rabbitbrush	0.4
Rosa woodsii - Woods rose	1.0
	5.6

HANDSETS (Plants per acre)

Populus tremuloides - Quaking aspen (Aspen will be placed on 5' to 6' centers in $\frac{1}{4}$ - $\frac{1}{2}$ acre clumps)	400
---	-----

5 June 1987

UMC 800

BONDING

Valley Camp has ordered The Historical Costs Index (Utah area) and will use an inflation factor, determined by averaging the preceding three years, to adjust the existing bond amount. Valley Camp will then immediately obtain additional bonding as required.

At this time Valley Camp does not have sufficient data to develop a revised cost estimate. We are in the process of obtaining the required information and will coordinate this process with the Division to insure that the guidelines are met.

UMC 817.11

SIGNS AND MARKERS

(d) The typical topsoil storage sign, as shown on Figure 3-35, drawing A4-0130, is located on top of the topsoil pile, facing the access road to the storage area.

Also the typical road hazard sign, as shown on Figure 3-34, drawing No. A5-0129, will be located at the entrance of the Belina haul road in Eccles Canyon.

UMC 817.23TOPSOIL: STORAGE

The Belina Complex topsoil stockpile is located approximately 400' south of the substation and is shown on Figure 3-33, Drawing No. A4-0128.

The stockpile contains approximately 1450 tons of substitute topsoil, which came from the enlargement of the 002 sediment pond, near the truckscale at the Utah #2 Loadout facility.

The excavated material met the criteria of and was approved by the Division as substitute topsoil.

The topsoil storage area is closely surrounded by dense forest (typical north-facings), exhibiting a medium amount of deadfall and heavy ground cover, which provides excellent protection against wind erosion as well as rapid snow melt in the spring time.

Drainage control ditches encompass the storage area to direct any migration of topsoil towards the Bermed Basin at the East end of the stockpile. The Bermed Basin also denies vehicle access on to the topsoil pile.

Straw bales are utilized on the north facing side of the stockpile to assist in containment, should a slope failure occur.

The topsoil pile has been seeded with an approved temporary seed mix.

NOTE! Disregard the statement in Paragraph (1) one on page (4) four of this section, concerning "No Existing Topsoil Piles." This matter will be addressed in its entirety at the end of this (5) five permit.

A 25% slope is about maximum for the minimum amount of tac. For a 100% slope (1:1 or 45°), the ratio of tac to fiber is calculated as:

SUGGESTED RATIOS OF TACK TO FIBER FOR HYDROSEEDING
AND HYDROMULCHING TO SERVE AS MULCH
OR SOIL BINDER

<u>SLOPE ANGLE</u>	<u>SLOPE RATIO</u>	<u>PERCENT SLOPE</u>	<u>LBS. TAC PER TON FIBER</u>	<u>RATIO TAC TO FIBER</u>
Rise:Run				
14	1 : 4	25%	60 (minimum)*	1 : 30
26	1 : 2	50%	80	1 : 25
33	1 : 1½	66%	100	1 : 20
45	1 : 1	100%	120	1 : 16
57	1½ : 1	150%	140	1 : 14
64	2 : 1	200%	160 (minimum)	1 : 12

*60 pounds is suggested as a minimum to ensure excellent stabilization; however, in many conditions, 40 pounds of tac per acre have given excellent results on a 1:4 or less slope.

In conjunction with the seeding effort, the entire area of disturbance will be hydromulched and fertilized. The rate of application of the mulch is:

1,200 to 1,500 lbs/acre on 1:1 slopes
2,000 to 3,000 lbs/acre on 3:1 slopes

The following various types and amounts of fertilizer will be applied after seeding and mulching. Fertilizer may be applied in either granular or liquid form:

80 lbs. N/acre
100 lbs. P₂O/acre
100 lbs. K₂O/acre

The seed mix is composed of rapidly growing interim species, primarily grasses; approximately 14 lbs/acre. This should be used in combination with a cover crop made up of approximately 10 lbs/acre of sweet clover and 15 lbs/acre of oats and/or rye.

June 8, 1987

UMC 817.45 - HYDROLOGIC BALANCE: SEDIMENT CONTROL MEASURES

The operator utilizes straw and straw bales for additional sediment control along the Belina haul road.

Listed below are various temporary applications of straw utilized by Valley Camp for sediment control on the haul road:

1. Straw bale check dams;
2. Pre-bedding for the straw bale check dams;
3. Rock gabian structures;
4. Slope protection; and
5. Headwall protection.

The straw bales, placed end to end, are normally secured in place with roof bolts or recessed three (3) to four (4) inches in the ground.

The straw and straw bales are replaced on an "as needed" basis.

Comment Update for A & B

The present Belina Mine water discharge facility is a concrete settling-filtering unit situated near the fan portal of the Belina No. 1 Mine. The facility was constructed during the third quarter of 1983. The unit is approximately 22' x 145', and varies in depth from eight feet to 11 feet. The pond is a multi-cell unit, consisting of five (5) cells or chambers. Additionally, in October of 1986, approval was given for the installation of a 6" abandoned section water bypass line. This line shares the same discharge location as Pond 005A beyond the Parshall Flume. This line originates at the seals in the First East Mains Section of the Belina No. 1 Mine, and the water collected behind those seals is pumped to the point of discharge. Details of this structure can be seen by referring to Drawing No. B4-0010 in Section 784.12 of Volume III.

Monitored flows from the Belina Mine discharge have increased from a previously reported 0.6 cubic feet per second maximum, to a maximum flow of 1.10 cubic feet per second. The mine water discharge is monitored according to the current NPDES permit, and is referred to as Pond 005A in the permit. Grab samples, a minimum of twice monthly, are analyzed for pH, TSS, TDS, iron, and oil and grease. Flow is measured for each sample by observing final discharge through a Parshall Flume installed at the outlet of the pond. The data for these parameters and sample results is on file at the Division's office.

This discharge is permitted through the U. S. Environmental Protection Agency as No. Ut-0022985, approved August 24, 1977, and renewed June 30, 1982.

This section also applies to Sections 784.14 and 784.16.

The proposed landfill site, for sediment disposal, has been discussed in UMC 817.48 (Feb. 8, 1983) of Volume V. Revised Map C-4 was also submitted at that time, which located the site. This site was again addressed in UMC 784.13(b) (7)-2 (Sept. 8, 1983) in Volume VI. The most current submittal dealing with this matter was the drawing sent in the Mid-Term Permit Review of January 14, 1987. That particular map, Map C, Drawing No. D5-0042, was originally submitted at the Divisions request, to show the enlarged topsoil storage location. In preparing that map we found that the sediment disposal site had been omitted. It was then located on Map C as previously shown on Map C4.

Regardless of location, and as previously stated, this facility is not planned for construction during the present five (5) year permit term.

For disposal of non-coal waste, refer to UMC 784.11, Pg. 5, of the 1/14/87 Valley Camp submittal for Volume III. This matter was also discussed in UMC 784.11 of Volume III, dated September 14, 1983, and UMC 784.13(b)(7)-2 dated September 8, 1983.

No toxic or hazardous waste is generated by Valley Camp.

UMC 817.106

Response to Division comments of 3/3/87 for UMC 817.106
Regrading and stabilizing of rills and gullies.

The committment requested has been previously made in UMC 817.106 of Volume VI, on page no. 1, dated September 12, 1983.

UMC 817.150-156

5 June 1987

Class I roads are: Belina haul road from the mine site to the Eccles Canyon Road (SR-264) right-of-way. Also the Utah #2 Loadout road from the highway 96 right-of-way, around the truck dump loop including from the truck-train loading station to the truck dump loop. See drawing number A5-0077, Rev. 1, "Haul and Access Roads."

UMC 817.160-.166 CLASS II ROADS

Class II Road: Valley Camp's road from the Alpine School District road near Utah #2 Loadout to the office. See Drawing Number D4-0085, Rev. 2 "Utah #2 Loadout Surface Facility Location"

UMC 817.170-.176 CLASS III ROADS

Class III Roads are: The access road from the Belina Complex substation to the topsoil storage area, and the access road from the Belina Complex upper material yard to the culinary water tanks above the bathhouse. All other supportive roads are in the interior of the disturbed area, and are within the immediate mining pit area. Associated drainages from the roads are partially treated prior to being received in the 004 sediment pond. The grade and alignment are depicted on Drawing No. D4-0084, Rev. 1, "Beling Mines Surface Facility Locations."

Also included in this classification is the water well access road at the Utah #2 Loadout as shown on Drawing No. D4-0085, Rev. 2, "Utah #2 Loadout Surface Facility Location."

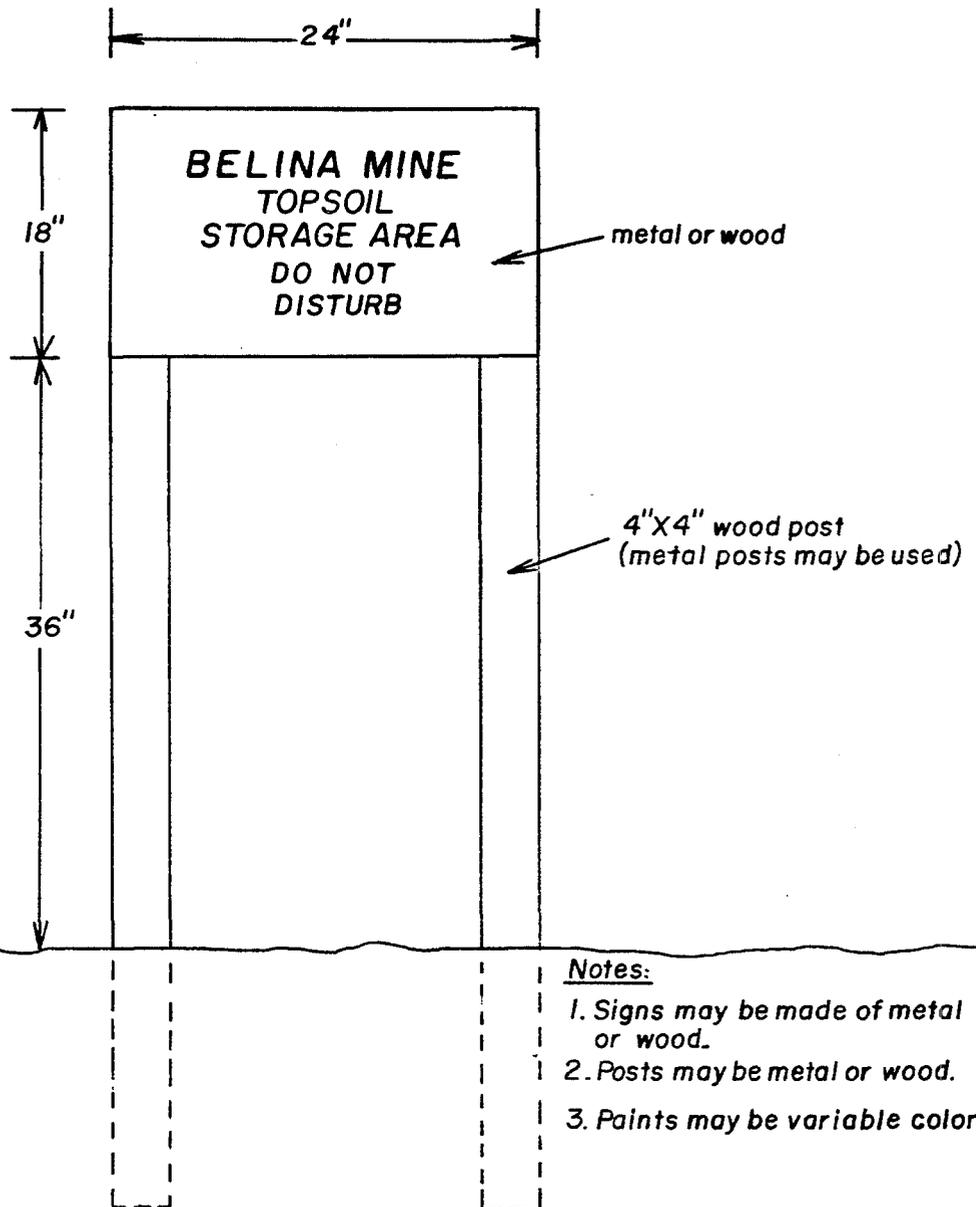
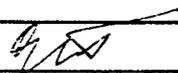
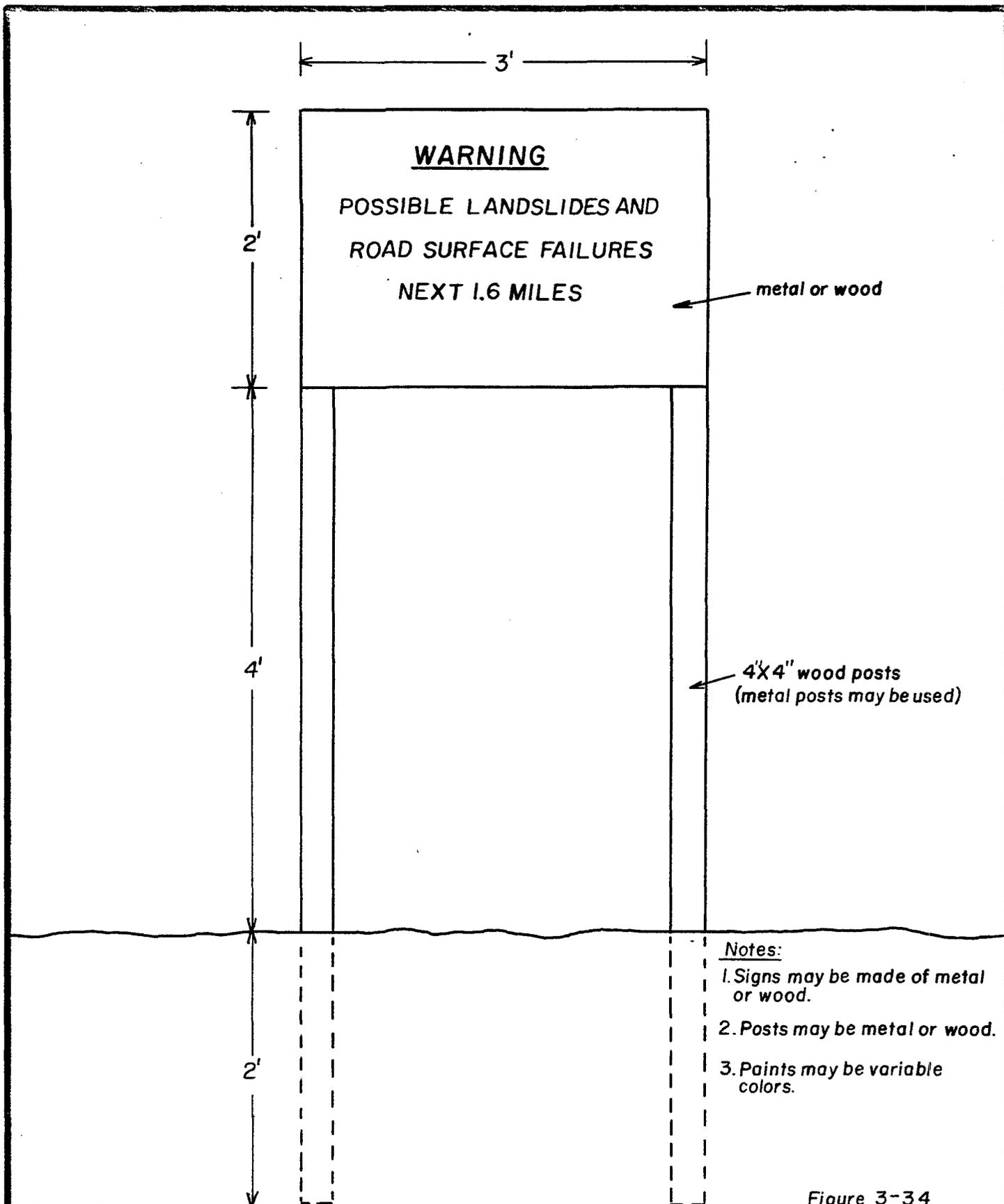


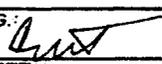
Figure 3-35

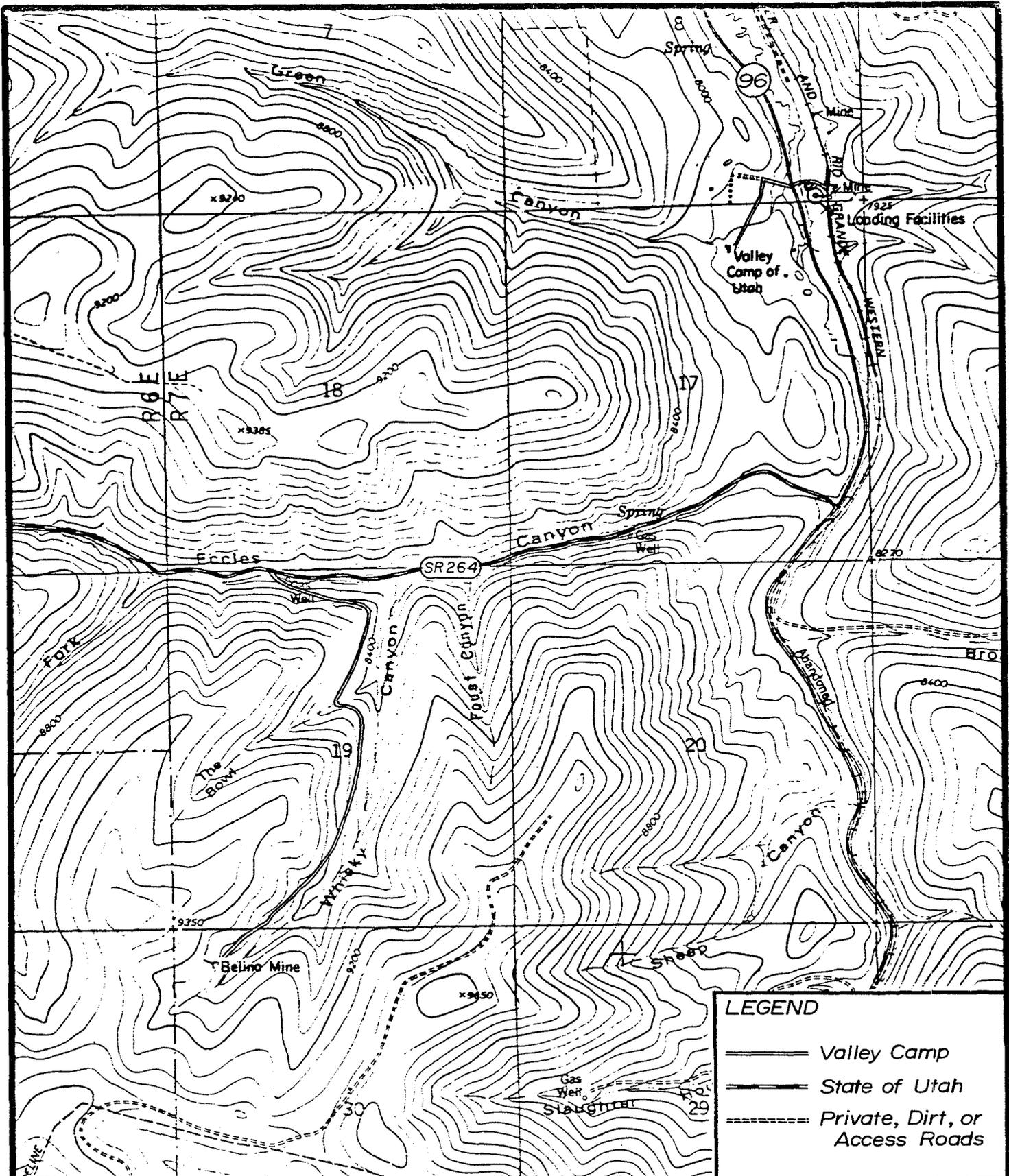
DRAWN BY: L. R. P.	DATE: 5/22/87		VALLEY CAMP of UTAH SCOFIELD ROUTE HELPER, UTAH 84526	
CHECKED BY:	DATE:			
REVISED BY:	SCALE: — NONE —			
APPROVAL ENG.: 				
APPROVAL SAFETY:	TITLE: TYPICAL TOPSOIL STORAGE SIGN	DRAWING NO. A4-0130	REV. NO.	
APPROVAL MINE:				



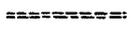
- Notes:**
- 1. Signs may be made of metal or wood.
 - 2. Posts may be metal or wood.
 - 3. Paints may be variable colors.

Figure 3-34

DRAWN BY: L.R.P.	DATE: 5/19/87		VALLEY CAMP of UTAH SCOFIELD ROUTE HELPER, UTAH 84526	
CHECKED BY:	DATE:			
REVISED BY:	SCALE: 1" = 1'			
APPROVAL ENG.: 				
APPROVAL SAFETY:	TITLE: TYPICAL ROAD HAZARD SIGN	DRAWING NO. A5-0129	REV. NO.	
APPROVAL MINE:				



LEGEND

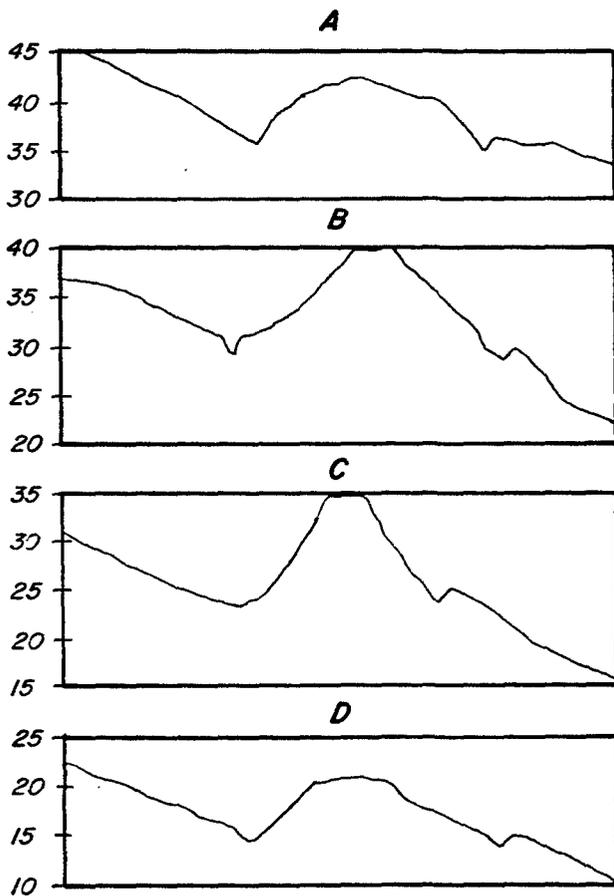
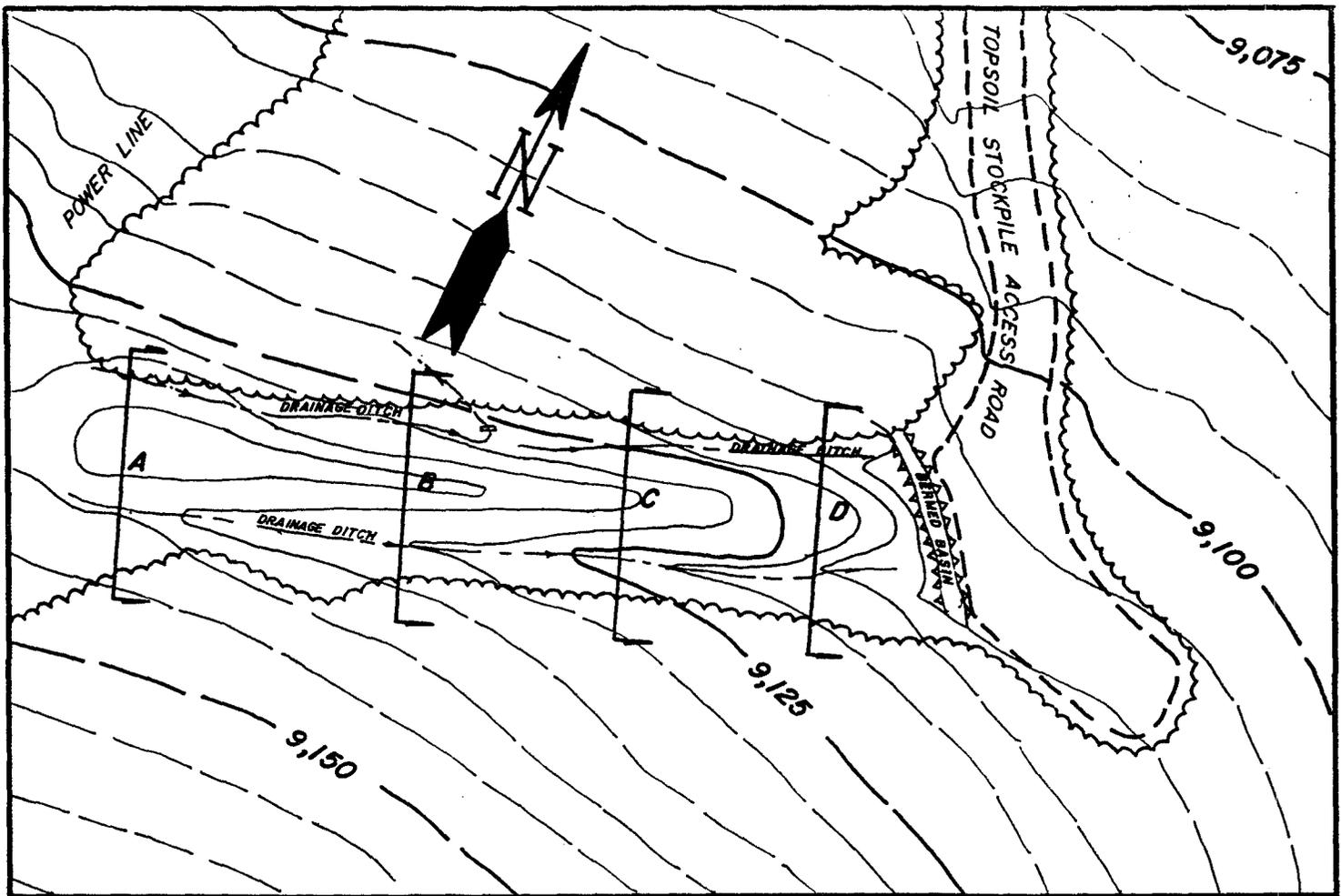
-  Valley Camp
-  State of Utah
-  Private, Dirt, or Access Roads

DRAWN BY: Ed Sanderson	DATE: Oct. 18, 83
CHECKED BY:	DATE: MAY 22, 87
REVISED BY: L.R.P.	SCALE: 1" = 1000'
APPROVAL ENG.: <i>Just</i>	
APPROVAL SAFETY:	
APPROVAL MINE:	



VALLEY CAMP of UTAH
SCOFIELD ROUTE
HELPER, UTAH 84526

TITLE: HAUL AND ACCESS ROADS	DRAWING NO. A5-0077	REV. NO. 1
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TOPSOIL IN STORAGE=1,450 TONS
 PROTECTIVE DEVICES USED=TREES,
 DRAINAGE DITCHES, VEGETATION,
 BERMS, STRAW BALES, BASIN.

TOPSOIL STOCKPILE LOCATION=400'
 DUE SOUTH OF THE SUB-STATION.

VEGETATIVE COVER=
 TEMPORARY SEED MIX.

FIGURE 3-33

	VALLEY CAMP OF UTAH, Inc.		
	SCOFIELD ROUTE HELPER, UTAH 84526		
DRAWN BY: <i>S. K. Tanner</i>	DATE: 4-24-87	SCALE: <i>N/A</i>	
CHECKED BY:	DATE:	REV.	DATE:
APPROVAL BY: <i>[Signature]</i>	DATE:	DRAWING NO.	
APPROVAL BY:	DATE:	A4-0128	
TITLE: —BELINA COMPLEX TOPSOIL STOCKPILE—			