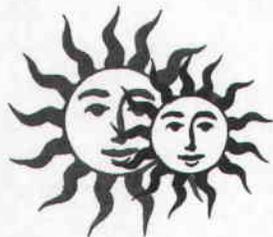


COPY



Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

February 2010

Daron Haddock
Division of Oil Gas and Mining
1594 W North Temple, Suite 1210
Salt Lake City, UT 84116

RE: Star Point Waste Fuel - Permit # C/007/042
Permit Amendment – Change in Permit Boundary - Task #3363

Dear Daron:

As you are aware, SCA has been working with ConocoPhillips over the past few years to assist them in utilizing a gas lease that they received from the BLM on a portion of federal property within the mining permit area. SCA submitted a permit amendment in 2009 and received comments from the division staff. In response to the comments received, SCA is submitting this updated permit amendment (five copies each).

This amendment to change the Permit Boundary is submitted subsequent to a separate amendment (task #3361) to change the PMLU and Reclamation plan for the gas operations area. This amendment is submitted with the understanding that the permit boundary change would not be approved until after the PMLU change and the corresponding Reclamation was accepted and bond released for that portion. Nonetheless, SCA has submitted this amendment at this time so that review can be consecutive.

In addition to changing the permit area to exclude the gas operations area, SCA has also adjusted the boundary to remove additional undisturbed areas that are not anticipated to be necessary for SCA's operations.

If you have any questions, please call Scott Carlson (801) 450-3511 or Rusty Netz (435) 888-4476.

Thank You,

Richard Carter
Agent For
Sunnyside Cogeneration Associates

cc: Steve Gross
Maggie Estrada
William Rossiter
Paul Shepard
Rusty Netz
Plant File

RECEIVED
FEB 22 2010
DIV. OF OIL, GAS & MINING

File in:
 Confidential
 Shelf
 Expandable
Refer to Record No. 0004 Date 02/18/2010
In C/007042 2010 Incoming
For additional information Confidential

APPLICATION FOR COAL PERMIT PROCESSING

COPY

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: Sunnyside Cogeneration Associates

Mine: Star Point Waste Fuel

Permit Number:

C/007/042

Title: Permit Boundary Change

Description, Include reason for application and timing required to implement:

This application modifies the permit boundary to remove reclaimed area (industrial PMLU) and undisturbed area not required for mining.

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

- Yes No 1. Change in the size of the Permit Area? Acres: 53.80 Disturbed Area: 5.99 increase decrease.
- Yes No 2. Is the application submitted as a result of a Division Order? DO# _____
- Yes No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does the application require or include public notice publication?
- Yes No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes No 9. Is the application submitted as a result of a Violation? NOV # _____
- Yes No 10. Is the application submitted as a result of other laws or regulations or policies?

Explain: _____

- Yes No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes No 13. Does the application require or include collection and reporting of any baseline information?
- Yes No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 15. Does the application require or include soil removal, storage or placement?
- Yes No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes No 19. Does the application require or include certified designs, maps or calculation?
- Yes No 20. Does the application require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided?
- Yes No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
- Yes No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations therein.

Richard Carter

Plant Manager

2/18/10

[Signature]
Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 18th day of February, 2010

Notary Public: Jody Hansen, state of Utah.

My commission Expires: Dec. 3rd 2011

Commission Number: 571930

Address: 1 Power Plant Rd. P.O. Box 159

City: Sunnyside State: UT Zip: 84501

SS: _____



For Office Use Only:

Assigned Tracking Number:

Received by Oil, Gas & Mining

RECEIVED

FEB 22 2010

DIV. OF OIL, GAS & MINING

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

COPY

Permittee: Sunnyside Cogeneration Associates
Mine: Star Point Waste Fuel **Permit Number:** C/007/042
Title: Permit Boundary Change

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED

<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 111.100a Permit Boundary Survey</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 222.100a Soils Map</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 222.100b Disturbed Area Soils Map</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 321.100a Permit Area Vegetation Overview</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 321.100b Disturbed Area Vegetation Map</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 321.100c Vegetation Reference Area</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 322.220a Wildlife Habitat Type</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 341.210a Bonding Scenario Revegetation Plan</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 341.210b Final Reclamation Revegetation Plan</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 411.100 Cultural Resources Location</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 521.100a West Side Surface Features</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 521.100b East Side Surface Features</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 521.100d Refuse Pile Operation Plan Overview</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 521.100e Refuse Pile Operation Plan Cross Sections</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 521.100j Pre SMCRA Surface Configuration</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 534.100d Road H Plan, Profile & Cross Sections</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 542.200a Bonding Scenario Reclamation Topography</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 542.200b Bonding Scenario Reclamation Cross Sections</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 542.200e Final Reclamation Topography</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 542.200f Bonding Scenario Subsoil Cover Plan</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 542.200g Final Reclamation Subsoil Cover Plan</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 731.720a Drainages and Diversions</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 731.720b Culverts</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 731.800 Water Right Points of Diversion Locations</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 761a Final Reclamation Watersheds and Sediment Control</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Map 761b Bonding Scenario Watersheds and Sediment Control</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Permit Exhibit 112.500a Land Classifications within the permit area</u>
<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Replace	<input type="checkbox"/> Remove	<u>Permit Text Pages 300-7 thru 300-10 and 300-30</u>

Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.

Received by Oil, Gas & Mining
RECEIVED
FEB 22 2010
 DIV. OF OIL, GAS & MINING

Public Notice

Notice is hereby given as required by the Utah Coal Mining Rules, R645-300-121 that Sunnyside Cogeneration Associates (SCA), P.O. Box 159, Sunnyside UT 84539, has filed an application requesting Phase 3 Bond Release and a change the Permit Boundary. Approval of this application will allow SCA to move reduce its bond for areas now reclaimed and remove approximately 54 acres of reclaimed land and other undisturbed land from the permit area under the provisions of the Utah Coal Mining and Reclamation Act and the Utah R645 Coal Mining Rules.

The existing permit area is comprised of approximately 153 acres and is located at Wattis, Utah. The entire property is located within lands described as:

S $\frac{1}{2}$ of S $\frac{1}{2}$ Section 10, T 15 S, R 8 E, SLB&M.

NW $\frac{1}{4}$ of SW $\frac{1}{4}$ Section 10, T 15 S, R 8 E, SLB&M.

NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 15, T 15 S, R 8 E, SLB&M.

N $\frac{1}{2}$ of NE $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 15, T 15 S, R 8 E, SLB&M.

N $\frac{1}{2}$ of N $\frac{1}{2}$ of S $\frac{1}{2}$ of NE $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 15, T 15 S, R 8 E, SLB&M.

NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of NE $\frac{1}{4}$ Section 15, T 15 S, R 8 E, SLB&M.

Changes to the proposed permit area occur within lands described as:

S $\frac{1}{2}$ of S $\frac{1}{2}$ of S $\frac{1}{2}$ Section 10, T 15 S, R 8 E, SLB&M.

NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 15, T 15 S, R 8 E, SLB&M.

N $\frac{1}{2}$ of NE $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 15, T 15 S, R 8 E, SLB&M.

N $\frac{1}{2}$ of N $\frac{1}{2}$ of S $\frac{1}{2}$ of NE $\frac{1}{4}$ of NW $\frac{1}{4}$ Section 15, T 15 S, R 8 E, SLB&M.

NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of NE $\frac{1}{4}$ Section 15, T 15 S, R 8 E, SLB&M.

Detailed maps of the proposed change are included as Exhibits to the application.

Copies of the permit will be available for inspection at the:

Utah Division of Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114

Written comments, objections or requests or an informal conference regarding this application must be submitted with 30 days of the last publication date of this notice, to the Utah Division of Oil, Gas and Mining, Attention Coal Regulatory Program, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801

Published in the Sun Advocate: Dates:

Exhibit 112.500a, Land Classifications within the Permit Area

Land Classifications within Permit Area

OWNERSHIP	SCA	PMC	BLM	Total
SCA Fee Simple	81.15			81.15
BLM Lease Lands			11.71	11.71
Pioneer Access Road		0.31		0.31
Subsoil Parcel		5.96		5.96
Totals	81.15	6.27	11.71	99.13

Still updating the disturbed areas.

Disturbance	Pre-Law	Post-Law	Undisturbed	Reclaimed	Total
SCA Fee Simple	33.63	31.84	12.09	3.59	81.15
BLM Lease Lands		10.16	1.55		11.71
Pioneer Access Road			0.31		0.31
Subsoil Parcel		4.96	1.00		5.96
Totals	33.63	46.96	14.95	3.59	99.13

References:

Exhibit 111.100a Star Point Permit Boundary
 Exhibit 222.100b Disturbed Area Soils Map

The extent of vegetation disturbance associated with prior mining road construction and mining in the SCA - Star Point Permit Area are shown on Map 321.100b. Disturbed area maps show the areas disturbed in relation to implementation of the Surface Mining Control and Reclamation Act of 1977 (SMCRA). These maps show pre-SMCRA and post-SMCRA disturbance areas. These maps also show disturbances that will not be reclaimed when the mine site is reclaimed (i.e. Conoco Phillips Access Road, County Road 290 and the disturbance associated with it). In addition, Map 321.100b shows the areas within the permit boundary that have been previously reclaimed by CPMC.

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Table 321.100a Permit Area Pre-disturbance Vegetation Type Acreage

VEGETATION TYPE	ACRES
Pinyon-Juniper	27.1
Saltbush	2.1
Mountain Shrub	15.2
Sagebrush	53.6
Mountain Grassland	0.8
Douglas Fir	0.3
TOTAL ACRES	99.1

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 Deleted: 47.6
 Deleted: 53.7
 Deleted: 1.8
 Deleted: 0.4
 Deleted: 152.8

The vegetation and disturbance maps were compiled from a variety of sources. Mapping for most of the permit area was completed during July 1986. Initially, vegetation types were mapped from a combination of black and white or color aerial photographs taken in 1983 and 1985, respectively. Field verification of the mapping including the current extent of disturbance was conducted during July 1986. Mapping originally prepared by Endangered Plant Studies, Inc. (EPS) for CPMC in 1980 and 1981 was used as a basis for portions of the vegetation maps and consisted of work covering the lower portion of the surface facilities area, particularly those areas surrounding the proposed Refuse Expansion Area. The acres of vegetation type shown in Table 321.100a were approximated using Map 321.100a and Map 321.100b.

Since no information could be obtained outlining the characteristics of the vegetation prior to 1916 when the mine opened, photographs taken in 1976 and professional judgment was used to extrapolate the community types for previously disturbed areas. The SCS soils mapping used this same kind of extrapolation.

The disturbed vegetation acreage by type for selected pre-SMCRA areas and all post-SMCRA areas are included in Table 321.100b. Areas reclaimed by CPMC are not included in the disturbed area acreage.

Deleted: May 2003

TABLE 321.100b Disturbed Acreage by Vegetation Type

VEGETATION TYPE	ACRES
Mountain Shrub	11.4
Pinyon-Juniper*	15.7
Sagebrush	53.3
Saltbush	0.2
TOTAL ACRES	80.6

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PLANT COMMUNITY DESCRIPTIONS

Table 321.100a, Permit Area Pre-Disturbance Vegetation Acreage Type indicates that the permit area encompasses 99.1 acres with the Coal Refuse Pile Area dominated by sagebrush vegetation and the Subsoil Area dominated by pinyon-juniper vegetation.

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As listed in Table 321.100b(CR), Disturbed Acreage by Vegetation Type, four vegetation types have been disturbed in connection with pre-SMCRA (continuously used) and post-SMCRA mining activities in the Permit Area. A list of the dominant plants growing in each of these plant communities is presented on Table 321.100c, in Exhibit 321.100a. Studies of a vegetation reference area were made to evaluate the vegetation due to the pre-existing disturbed conditions of the Permit Area, and results of these studies are included in Section 356.200 and Exhibit 321.100b. Map 321.100c shows the location of the reference area relative to the permit area. A brief description for each major vegetation community type found within the Permit Area is given below.

Mountain Shrub Community

A total of 11.4 acres have been disturbed in the Mountain Shrub Community. This type consists of a small finger-like ridge south and just west of the existing coal refuse pile. This type is dominated by taller shrubs and the more abundant plants include Utah Serviceberry (*Amelanchier utahensis*), Mountain mahogany (*Cercocarpus montanus*), and Mountain Snowberry (*Symphoricarpos oreophilus*). Big sagebrush (*Artemisia tridentata*) is also an important component of this community. This plant community usually grows on soils containing very little useable topsoil and soils that possess numerous large boulders and rocks, which lowers the water holding capability of these areas.

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The Mountain Shrub Community in this area is not currently being grazed by livestock and is presently utilized only by wildlife. Little evidence of human perturbation can be observed, and there is no evidence of fire or reseeding.

Pinyon-Juniper Community

This community exists on drier areas with poorly developed soils and is often associated with the steeper south facing slopes. This type accounts for 15.7 acres of the disturbance to the vegetation resources (Maps 321.100b). This type is called by some ecologists the pygmy forest since it is dominated by low growing trees that often contain an abundance of shrubs and a paucity of herbaceous plants in the understory. Pinyon pine (*Pinus edulis*) and Utah juniper (*Juniperus osteosperma*) dominate the overstory. Prominent shrubs found within this type include Wyoming Big sagebrush (*Artemisia tridentata* spp. *wyomingensis*), Utah Serviceberry, Mountain mahogany, and Mountain snowberry. The sparse herbaceous cover is composed mainly of the grasses including Slender wheatgrass (*Elymus trachycaulus*), Salina wildrye (*Elymus salinus*), Prairie junegrass (*Koeleria macrantha*), and Indian ricegrass (*Stipa hymenoides*). These grasses are intermingled with forbs including Curlycup gumweed (*Grindelia squarrosa*), Colton locoweed (*Astragalus coltonii*), and *Eriogonum* spp.

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Extensive portions of this type were disturbed by mining activities conducted prior to the recent legislation governing reclamation. The undisturbed portions that remain are used primarily as winter range by mule deer.

Sagebrush Community

The Sagebrush Community occupies a large area of the Coal Refuse Pile. These soils are generally more developed and productive than other soils in the Permit Area. This vegetative type is dominated by Wyoming Big sagebrush, but on more mesic sites Basin Big sagebrush (*Artemisia tridentata* spp. *tridentata*) is found. In many instances this type appears to occupy soils having sandstone bedrock at a depth of approximately 30 inches. Floristically this type contains very few other plant species, and Big sagebrush accounts for most of the plant growth in this community.

A total of 53.3 acres of Sagebrush have been disturbed, all in the vicinity of the Coal Refuse Pile (Map 321.100b, Disturbed Acreage by Vegetation Type). This type has been sampled both for predisturbance and reference areas.

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This plant community is the commonly used type of mule deer winter range and nearly all areas show signs of heavy browsing and numerous pellet groups. This type shows no signs of recent fires, but the existence of Crested wheatgrass in the vegetation sampling suggests that portions of this type have undergone some form of range improvement in the past.

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Saltbrush Community

This plant community occurs in areas near the refuse pile and on other sites where Mancos Shale is exposed. The total disturbed area for this community was estimated to be only 0.2 acres. This community is dominated by low growing shrubs and drought hearty grasses and forbs. The total plant cover on these sites is the lowest of all plant communities sampled. The shrub component provides most of the ground cover followed by grasses and forbs. Shadscale (*Atriplex confertifolia*) is the dominant shrub species and accounts for most of the plant cover growing on this site. Slender wheatgrass is the most common grass. The dominant forb was *Eriogonum* spp (buckwheat).

Deleted: No areas of this vegetation were disturbed within the SCA - Star Point Permit Area.

The soils on these areas are very poorly developed due to the heavy clayey soil textures and steep slopes. Due to these two factors surface runoff is very high. Due to the low growth of the vegetation, which is often covered by snow during the winters, these areas receive little mule deer utilization during the winters.

321.200. Vegetative Productivity.

The land productivity of the Coal Refuse Pile Area was not measured when mining and the road first disturbed the area. Currently the vegetation of the area is limited due to the extents of the coal refuse pile.

Various productivity estimates have been obtained for lands within the existing permit area. In 1981, Doctors Welsh and Murdock of EPS conducted range condition and productivity studies. Findings from their surveys for areas pertinent to the current submittal indicated that low elevation pinyon-juniper areas were currently in "fair" conditions and in 1981 produced 1,115 pounds of potential forage with a potential productivity of 1,650 pounds per acre. Sagebrush lands were also in "fair" condition and producing 1,400 pounds of forage with a potential yield of 2,000 pounds of forage per acre. This information is presented to document the acceptability of range condition classes in the reference area established at the Star Point Mines. Formal determinations regarding range condition and productivity have been submitted in previous CPMC permit applications and no new disturbance beyond that addressed by these determinations is proposed.

322. FISH AND WILDLIFE INFORMATION.

The purpose of this section is to inventory the wildlife resources in the SCA - Star Point Permit Area and to evaluate the impact of the operation of the mine on those resources. The study includes fish, aquatic insects, birds, amphibians, reptiles, and mammals, and results of this study are included in Exhibit 322.200a. Analysis entailed a review of the applicable literature, consultation with the relevant agencies, field analysis, and impact evaluation. In summary, this study uncovers minimum

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340. RECLAMATION PLAN.

Reclamation essentially commences with the first ton of coal mine waste removed and used as an alternative energy fuel. Practices will be limited to excavation and handling of coal mine waste to segregate non-combustibles. The coal mine waste will be disposed of in a controlled manner and be disposed of in areas that have been approved by DOGM. The design is to substantially reduce the final quantity of coal mine waste that will ultimately remain within the coal refuse area. Reclamation will be a continuous process of mining the coal wastes and ultimately grading, covering, and revegetating the disturbed areas.

The reclaimed surface will provide a variety of topographic features enhancing the postmining land use. The premining topography in the area contains long steep slopes with numerous natural benches. The backfilling plan includes leaving modified cutslopes and the associated benches. The postmining topography is graphically represented on Maps 542.200a through 542.200g. For additional discussion refer to the engineering Reclamation Plan located in Section 540.

SCA will ensure that most areas disturbed in connection with mining are returned to a postmining configuration that would allow these lands to be used in a similar manner to adjacent lands that are not disturbed. The following discussion specifically addresses how this will be accomplished for each disturbed area within the SCA - Star Point Permit Area. It should also be noted that some areas are designated for an industrial post mining land use. Reclamation of these areas will be focused on scraping coal waste materials from the site and leaving it in a condition acceptable for the proposed use. These areas include sites planned for natural gas wells and access roads to them.

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341. REVEGETATION.

The short-term goal of this revegetation plan is the immediate stabilization of the disturbed sites through erosion control. This objective will be achieved through controlled grading practices, proper seedbed preparation to encourage rapid plant establishment, inclusion of rapidly establishing species in the seed mixture to be planted, and mulch application. The long-term goals are to establish useful, productive range and wildlife habitat. These goals will be attained through the selection and placement of desirable and productive plant species, and a commitment to monitor and maintain revegetated areas throughout the bond liability period.

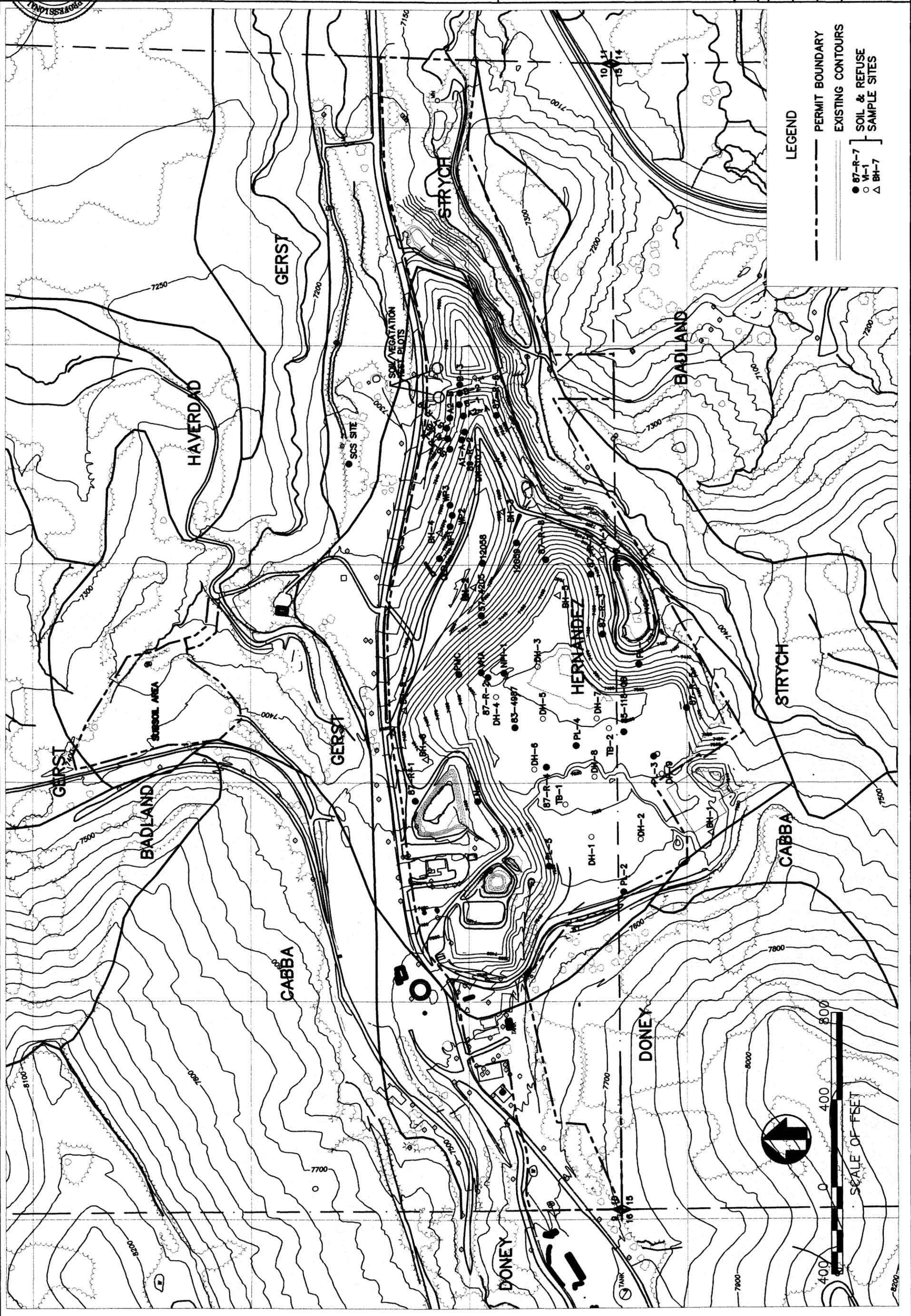
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SCA / STAR POINT WASTE FUEL
SOILS MAP

TWIN PEAKS
Engineering & Land Surveying
1880 NORTH 800 EAST LEHI, UTAH 84043
(801) 450-3511, (801) 439-0700 FAX

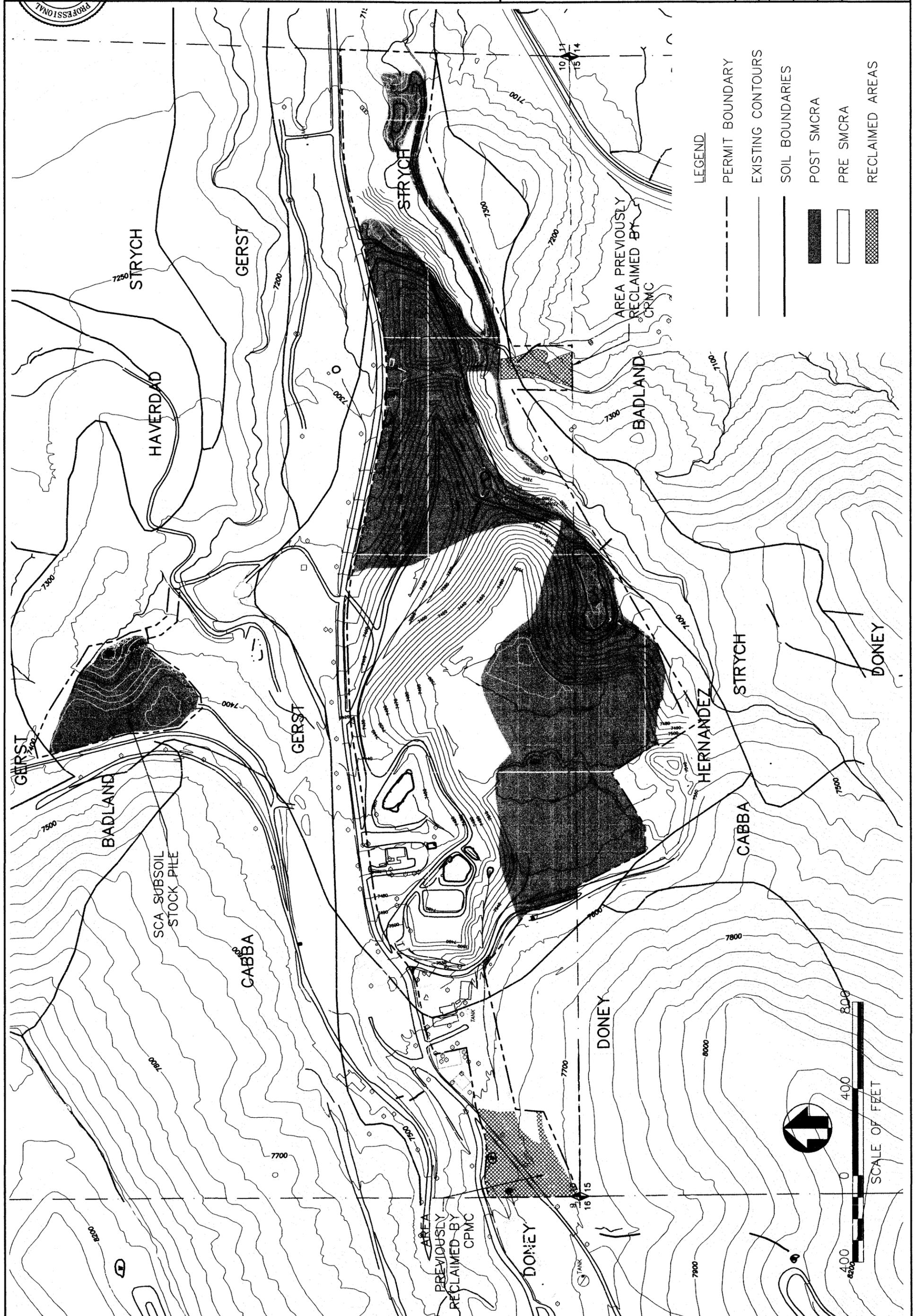
222.100a



SCALE OF FEET

LEGEND

- 87-R-7 SOIL & REFUSE
- V-1 SOIL & REFUSE
- △ BH-7 SOIL & REFUSE
- PERMIT BOUNDARY
- EXISTING CONTOURS



LEGEND

---	PERMIT BOUNDARY
—	EXISTING CONTOURS
—	SOIL BOUNDARIES
■	POST SMCRA
□	PRE SMCRA
▨	RECLAIMED AREAS

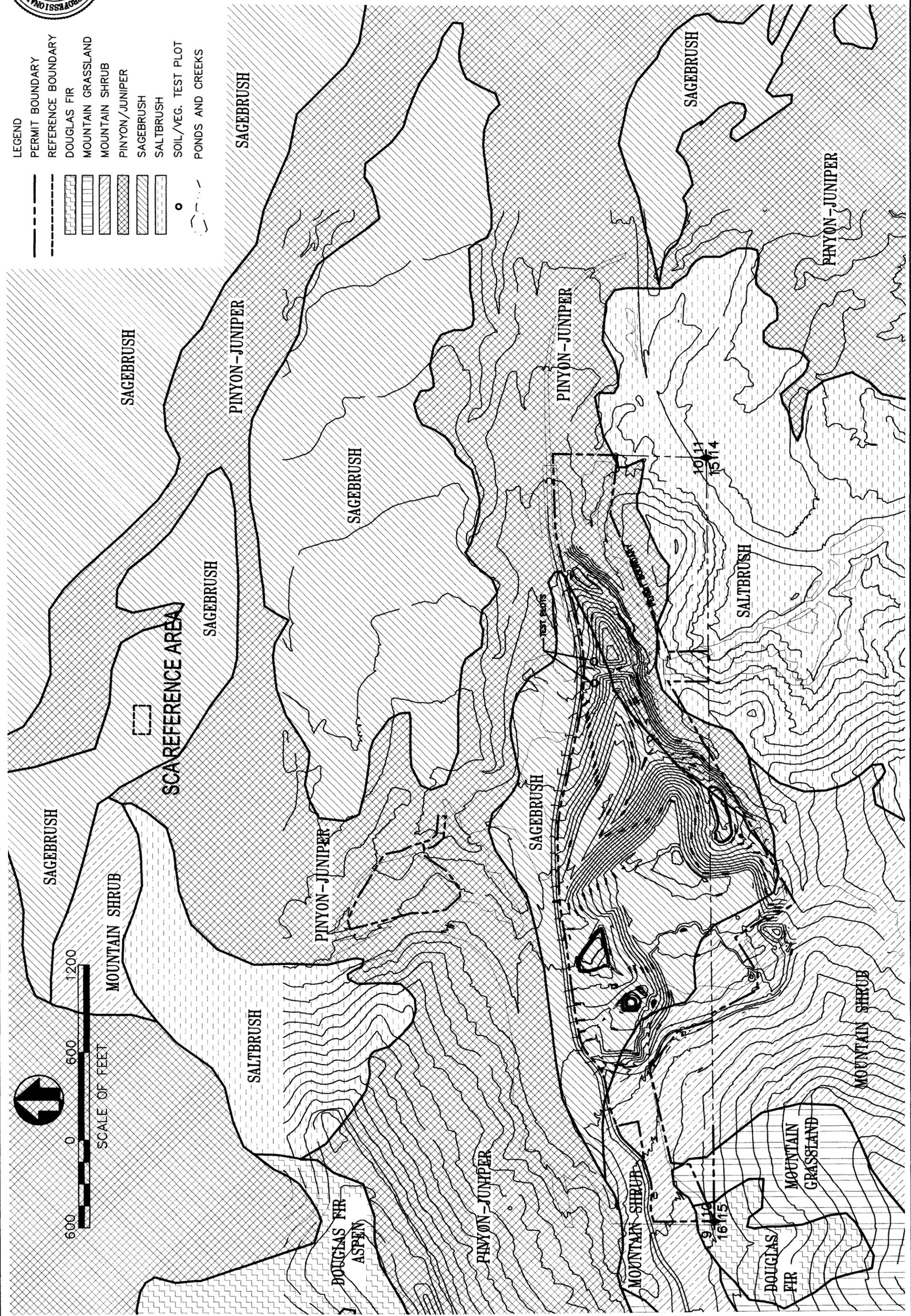


SCA / STAR POINT WASTE FUEL
DISTURBED AREA SOILS MAP

TWIN PEAKS
Engineering & Land Surveying
1880 NORTH 800 EAST LEHI, UTAH 84043
(801) 450-3511, (801) 439-0700 FAX

DATE	
DATE	
DATE	

222.100b



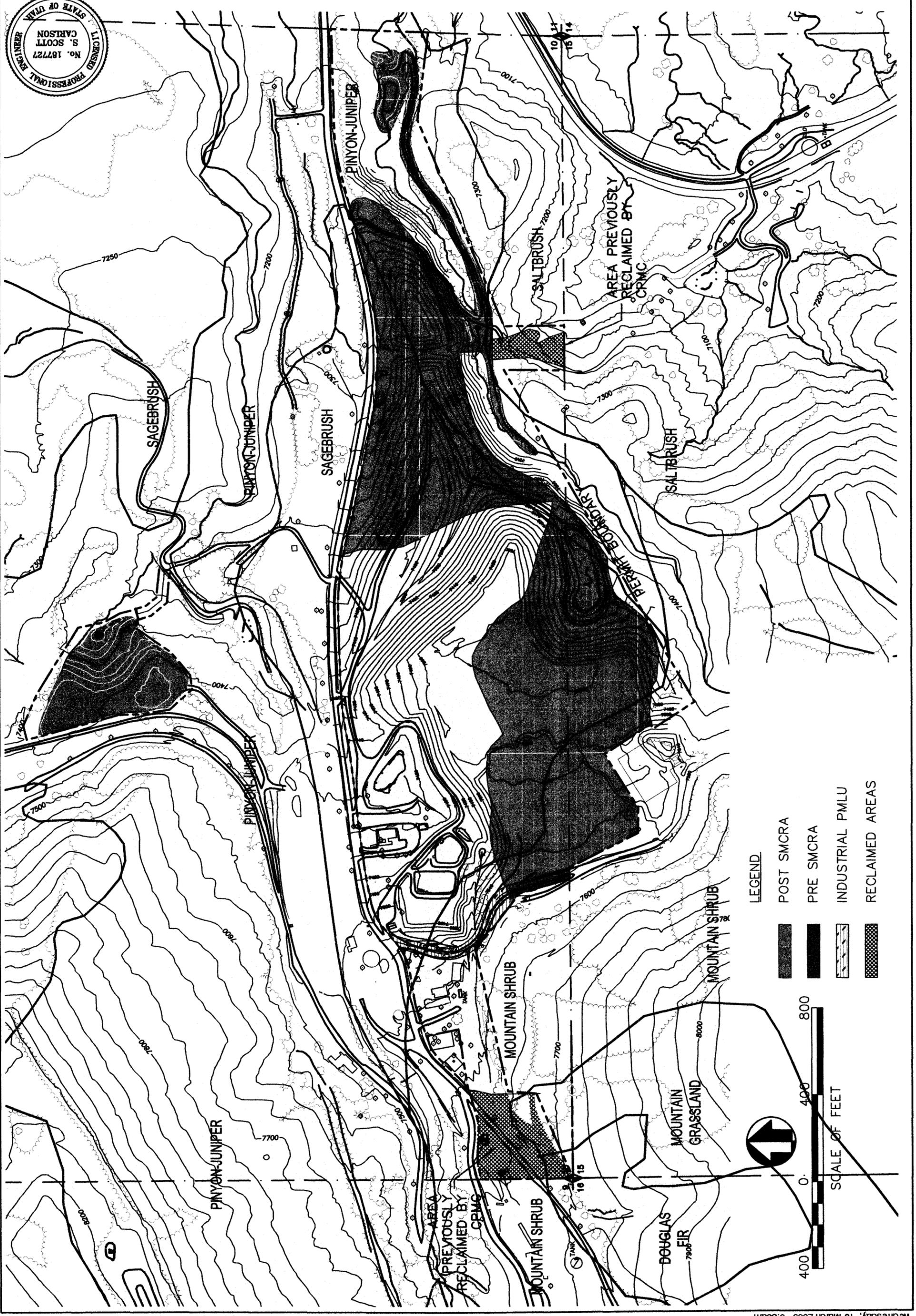
LEGEND

	PERMIT BOUNDARY
	REFERENCE BOUNDARY
	DOUGLAS FIR
	MOUNTAIN GRASSLAND
	MOUNTAIN SHRUB
	PINYON/JUNIPER
	SAGEBRUSH
	SALTBRUSH
	SOIL/VEG. TEST PLOT
	PONDS AND CREEKS



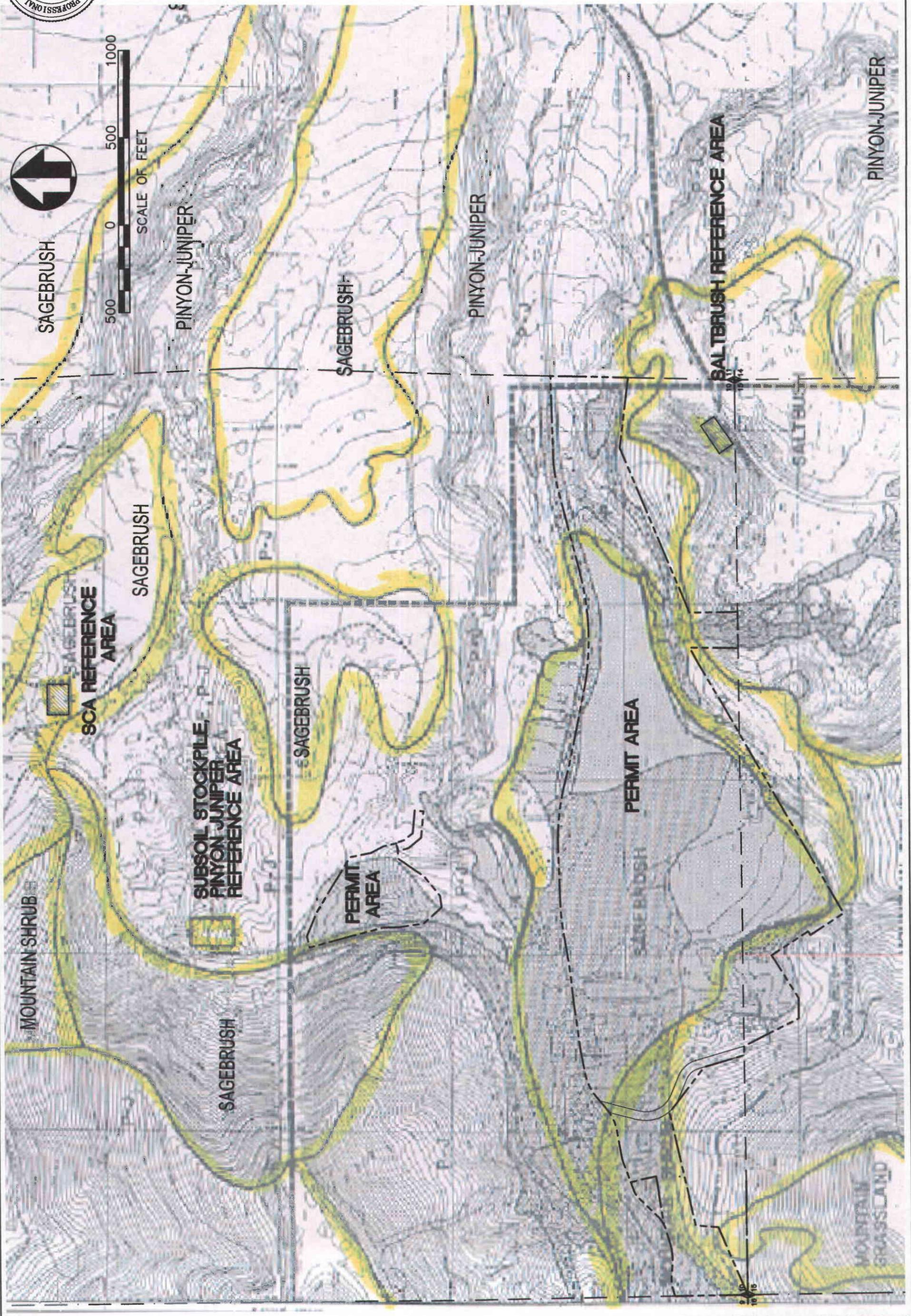
**SCA / STAR POINT WASTE FUEL
REFUSE PILE AND SOIL BORROW AREA
PERMIT AREA VEGETATION OVERVIEW**

TWIN PEAKS
Engineering & Land Surveying
1880 NORTH 800 EAST LEHI, UTAH 84043
(801) 450-3511, (801) 439-0700 FAX



LEGEND

	POST SMCRA
	PRE SMCRA
	INDUSTRIAL PMLU
	RECLAIMED AREAS

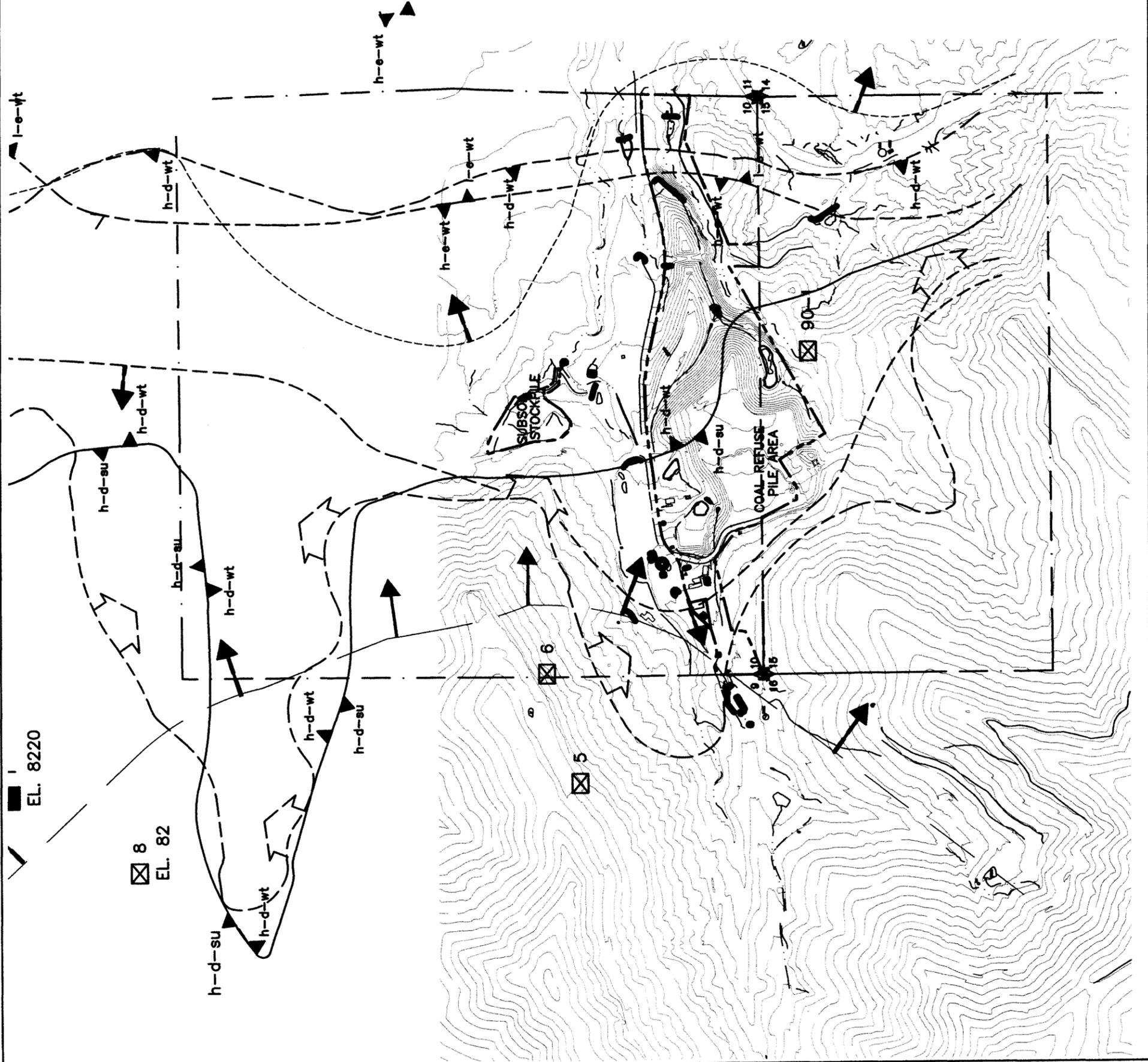


SCA / STAR POINT WASTE FUEL VEGETATION REFERENCE AREA

TWIN PEAKS Engineering & Land Surveying 1880 NORTH 800 EAST LEHI, UTAH 84043 (801) 450-3511, (801) 439-0700 FAX

321.100c





LEGEND:

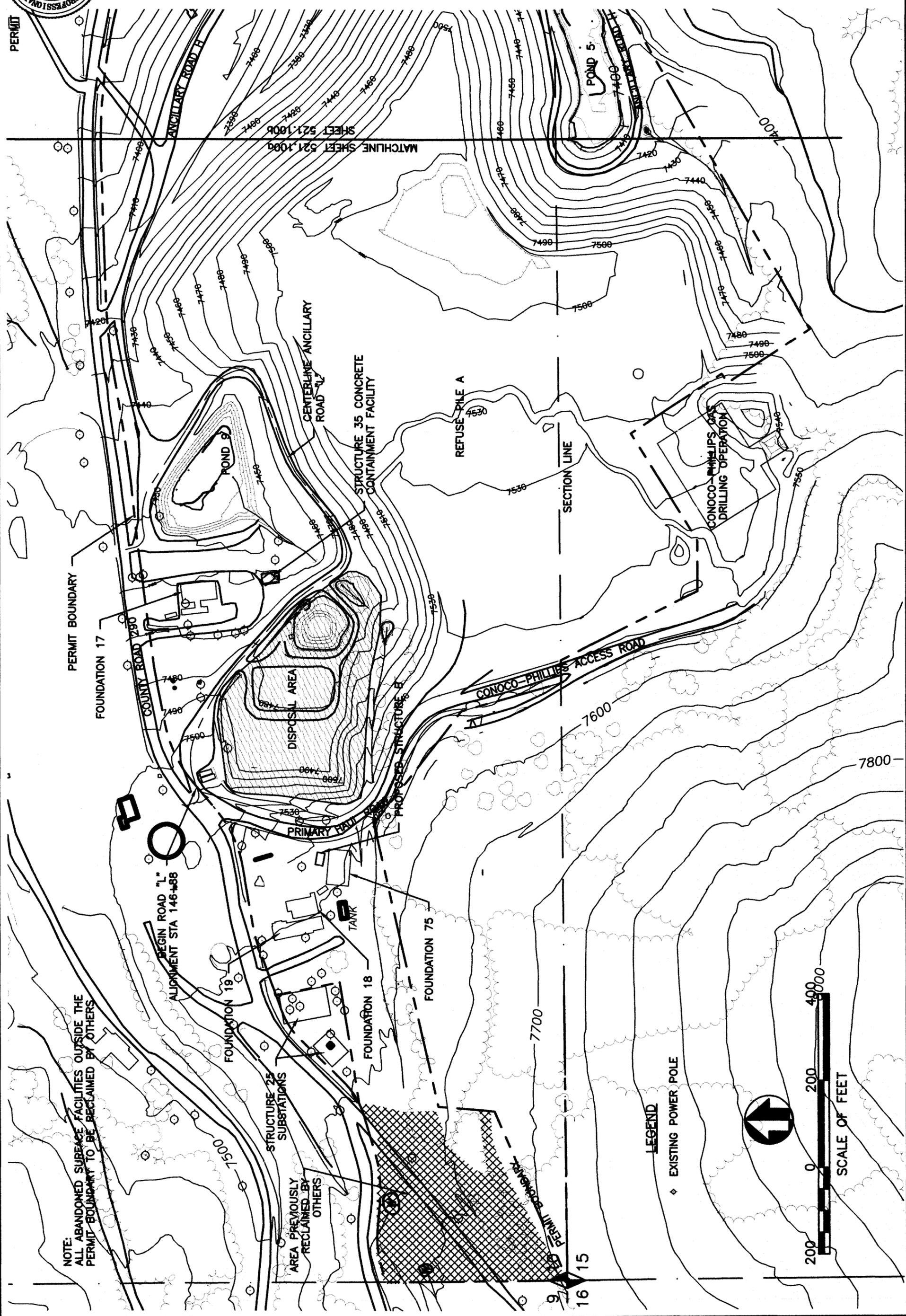
- MULE DEER HABITAT
 high priority deer summer range h-d-su
 high priority deer winter range h-d-wt
- ELK HABITAT
 limited value elk winter range i-e-wt
 high priority elk winter range h-e-wt
- MOUNTAIN COTTONTAIL HABITAT
 DESERT COTTONTAIL/ GRAY FOX HABITAT
 COUGAR/BOBCAT/
- COYOTE - ENTIRE AREA
- DEER MIGRATORY ROUTE
- BALD EAGLE WINTER AREA
- GOLDEN EAGLE NEST
- STICK NEST-BUTEO OR RAVEN
- 10-FOOT TOPOGRAPHIC CONTOUR
- SECTION LINE
- EXISTING PERMIT BOUNDARY
- SEDIMENT PONDS/STREAMS

SCA / STAR POINT WASTE FUEL
 WILDLIFE HABITAT TYPE



TWIN PEAKS
 Engineering & Land Surveying
 1880 NORTH 800 EAST LEHI, UTAH 84043
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322.220a

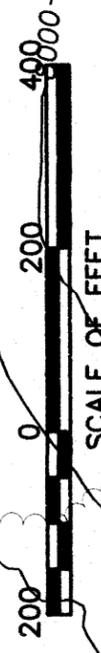


NOTE:
ALL ABANDONED SURFACE FACILITIES OUTSIDE THE
PERMIT BOUNDARY TO BE RECLAIMED BY OTHERS

BEGIN ROAD "L"
ALIGNMENT STA 146+88

LEGEND

◇ EXISTING POWER POLE



SCALE OF FEET



SCA / STAR POINT WASTE FUEL
REFUSE PILE
WEST SIDE SURFACE FEATURES

TWIN PEAKS
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(801) 450-3511, (801) 439-0700 FAX

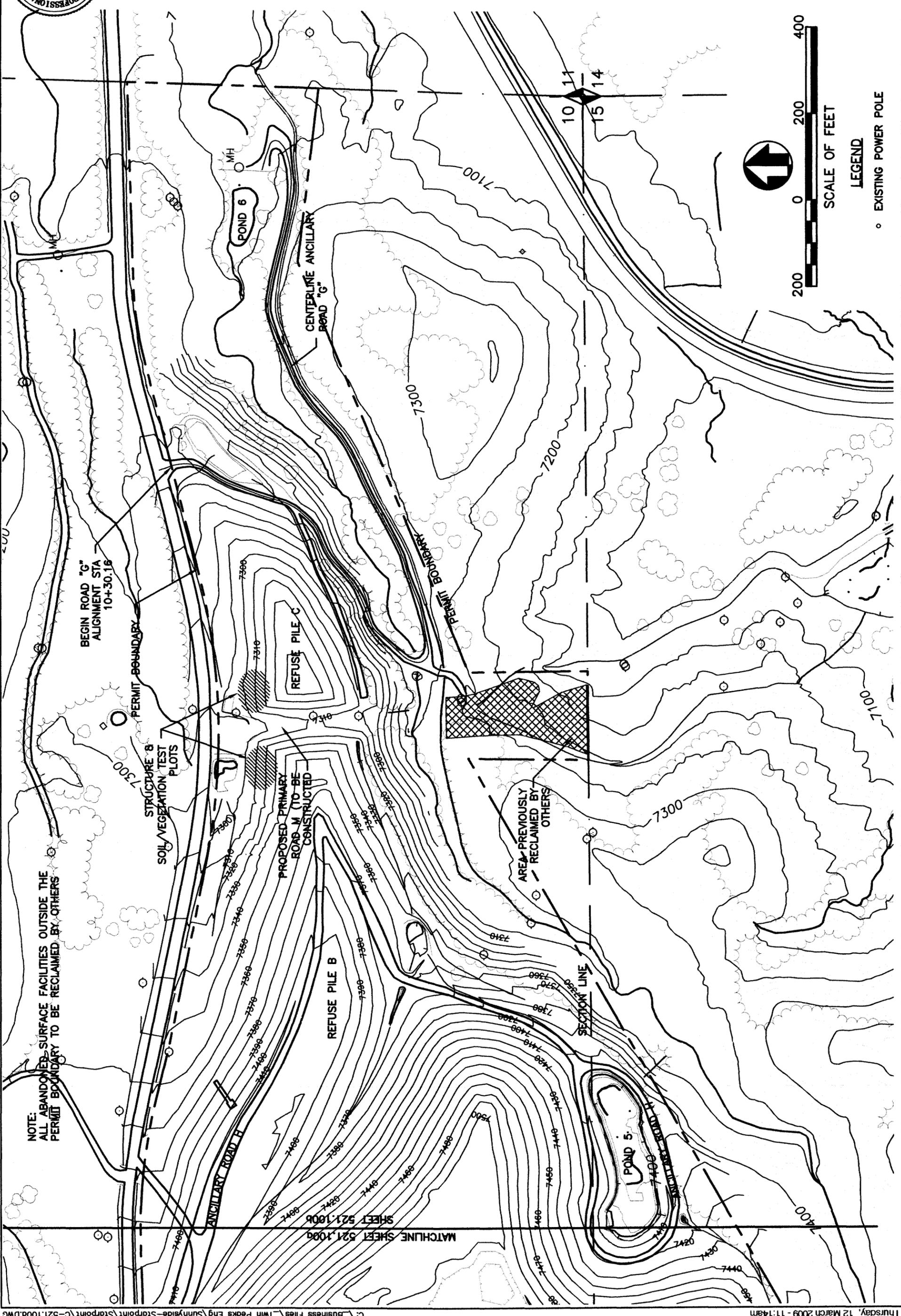
521.100a



SCA / STAR POINT WASTE FUEL
REFUSE PILE
EAST SIDE SURFACE FEATURES

TWIN PEAKS
Engineering & Land Surveying
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(801) 450-3511, (801) 439-0700 FAX

521.100b



NOTE:
ALL ABANDONED SURFACE FACILITIES OUTSIDE THE
PERMIT BOUNDARY TO BE RECLAIMED BY OTHERS

BEGIN ROAD "G"
ALIGNMENT STA
10+30.16

STRUCTURE &
SOIL/VEGETATION TEST
PLOTS

PROPOSED PRIMARY
ROAD "M" TO BE
CONSTRUCTED

AREA PREVIOUSLY
RECLAIMED BY
OTHERS

MATCHLINE SHEET 521.100a
SHEET 521.100b



LEGEND

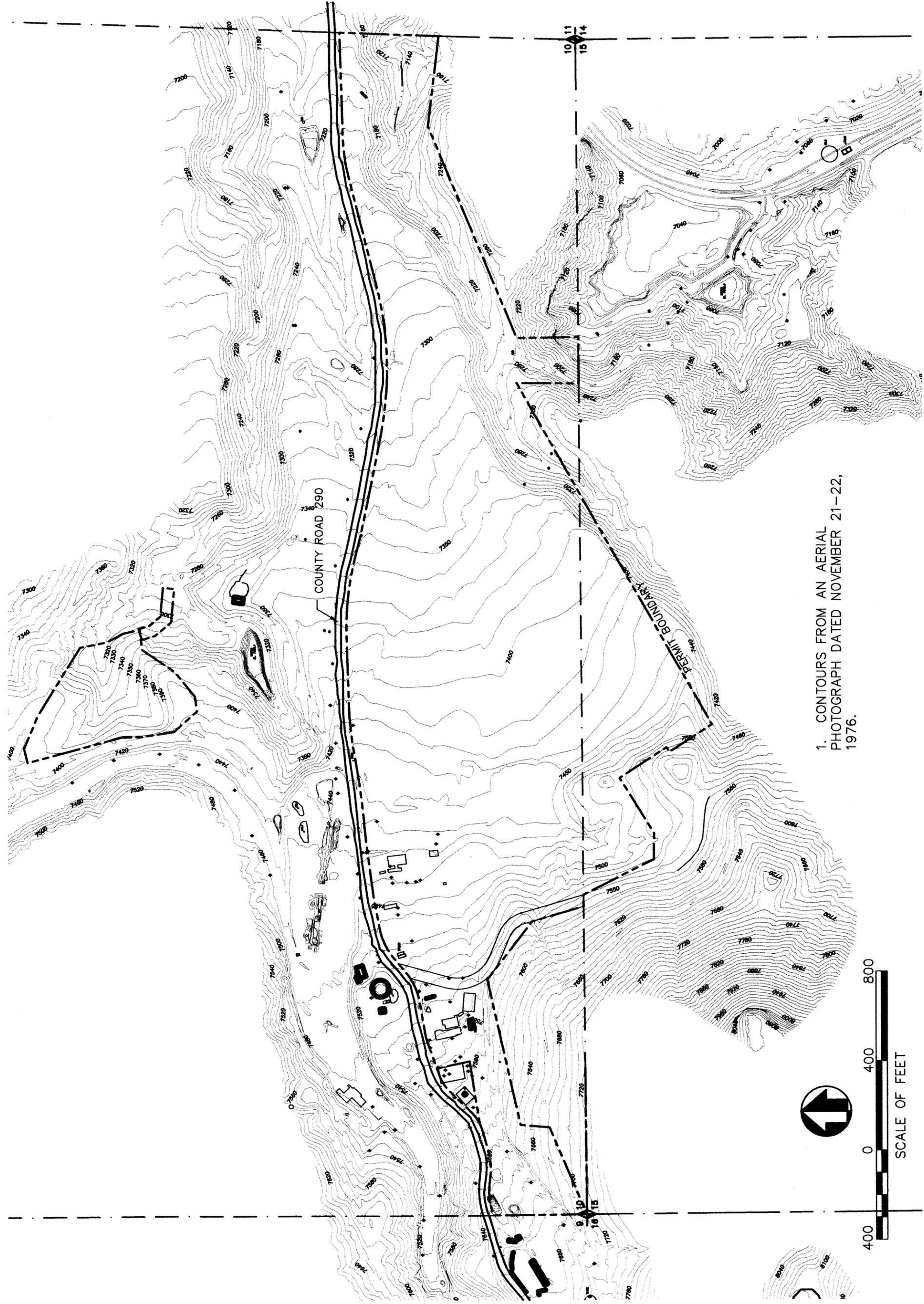
o EXISTING POWER POLE



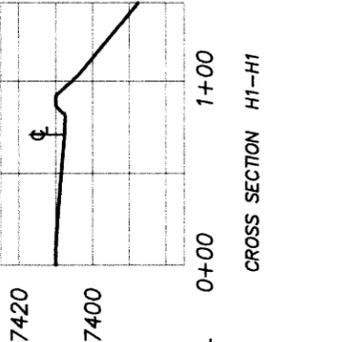
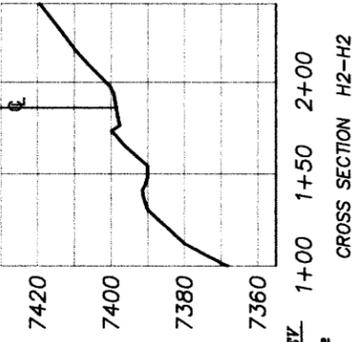
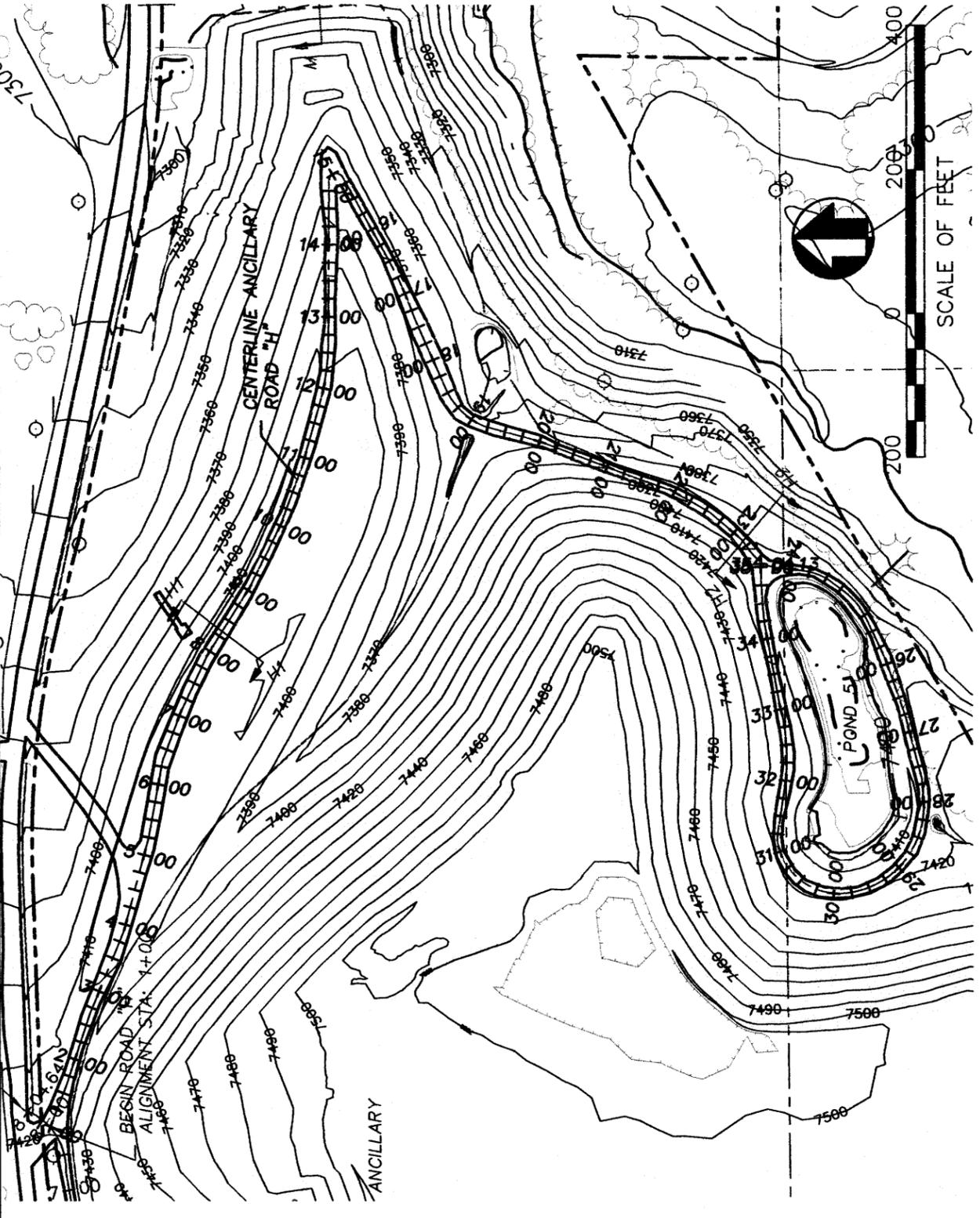
SCA / STAR POINT WASTE FUEL
PRE-SMRA SURFACE CONFIGURATION

TWIN PEAKS
Engineering & Land Surveying
1880 NORTH 800 EAST LEHI, UTAH 84043
(801) 450-3511, (801) 439-0700 FAX

DATE	
DRAWN BY	
CHECKED BY	
SCALE	
PROJECT NO.	
521.100j	



1. CONTOURS FROM AN AERIAL PHOTOGRAPH DATED NOVEMBER 21-22, 1976.



PROFILE ROAD H CROSS SECTIONS
SCALE: HORIZ: 1" = 100' VERT: 1" = 50'

7408.9	7410.1 MATCHLINE A
7412.5	7412.5
7415.4	7415.4
7417.7	7417.7
7418.7	7418.7
7418.3	7418.3
7417.8	7417.8
7415.5	7415.5
7414.1	7414.1
7413.5	7413.5
7412.2	7412.2
7411.3	7411.3
7409.2	7409.2
7406.9	7406.9
7402.8	7402.8

00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00

4.76% -0.87% -3.10% -2.52% -7.72%

PROFILE ROAD H - VIEWPORT B
SCALE: HORIZ: 1" = 200' VERT: 1" = 100'

7419.0	7419.0
7413.4	7413.4
7415.1	7415.1
7410.4	7410.4
7409.6	7409.6
7408.6	7408.6
7409.0	7409.0
7409.2	7409.2
7409.4	7409.4
7409.5	7409.5
7409.6	7409.6
7407.3	7407.3
7406.9	7406.9
7406.0	7406.0
7405.5	7405.5
7404.4	7404.4
7403.3	7403.3
7402.8	7402.8
7401.4	7401.4
7398.8	7398.8
7395.3	7395.3
7384.6	7384.6
7377.9	7377.9
7375.4	7375.4
7374.3	7374.3
7372.0	7372.0
7369.9	7369.9
7368.7	7368.7
7365.9	7365.9
7363.4	7363.4
7362.0	7362.0
7362.0	7362.0
7366.4	7366.4
7374.4	7374.4
7380.6	7380.6
7384.8	7384.8
7388.6	7388.6
7393.0	7393.0
7396.7	7396.7
7401.6	7401.6
7402.9	7402.9
7402.4	7402.4
7402.1	7402.1
7402.9	7402.9
7404.4	7404.4
7405.9	7405.9
7407.4	7407.4
7408.9	7408.9
7410.1 MATCHLINE A	7410.1 MATCHLINE A
7412.5 MATCHLINE B	7412.5 MATCHLINE B

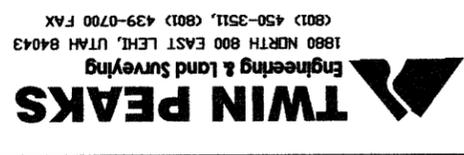
1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 .

8.88% -2.27% -2.20% 0.19% -1.66% -6.40% -12.23% -3.10% -1.47% 7.82% 13.48% 8.24% 4.72% -3.19% 3.16%

PROFILE ROAD H - VIEWPORT A
SCALE: HORIZ: 1" = 200' VERT: 1" = 100'



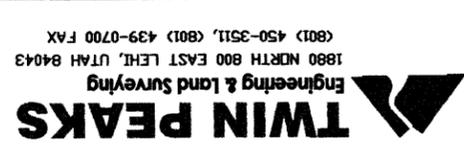
SCA / STAR POINT WASTE FUEL
ROAD H
PLAN, PROFILE AND CROSS-SECTIONS



534.100d



SCA / STAR POINT WASTE FUEL
REFUSE PILE BONDING SCENARIO
RECLAMATION CROSS-SECTIONS



DATE	
PLAT	
DATE	

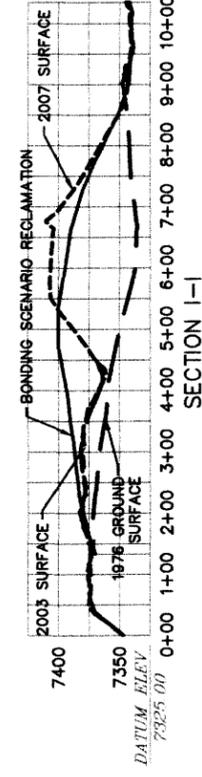
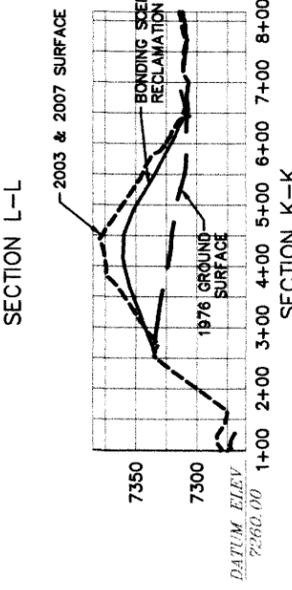
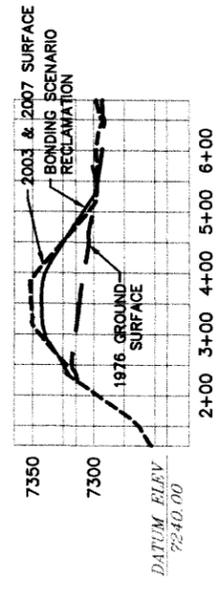
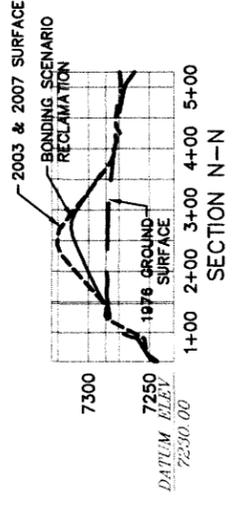
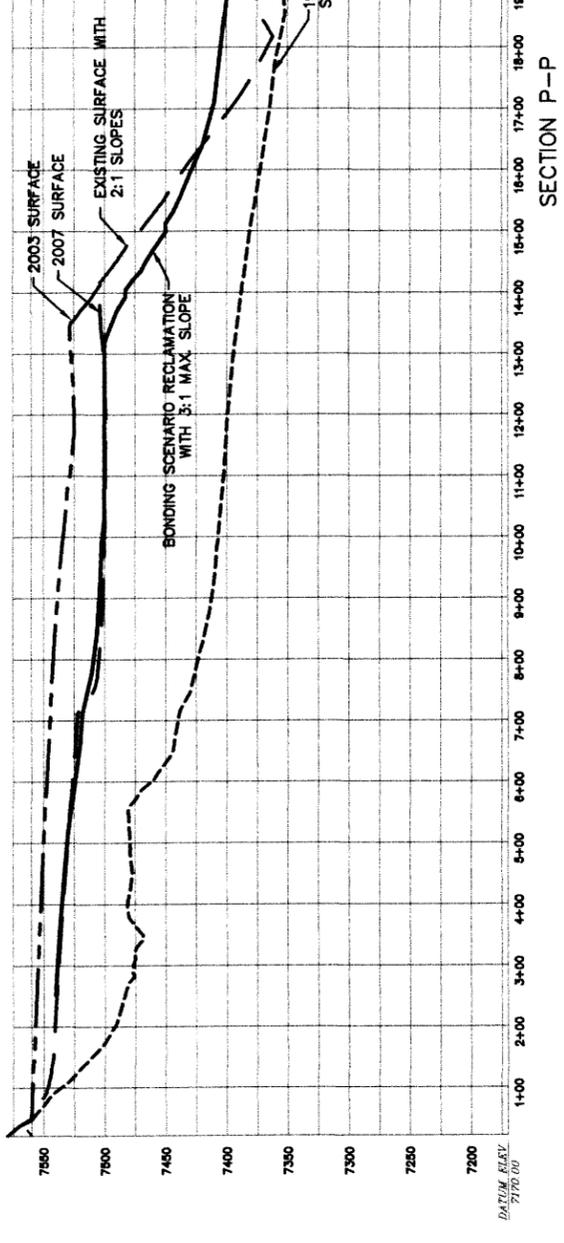
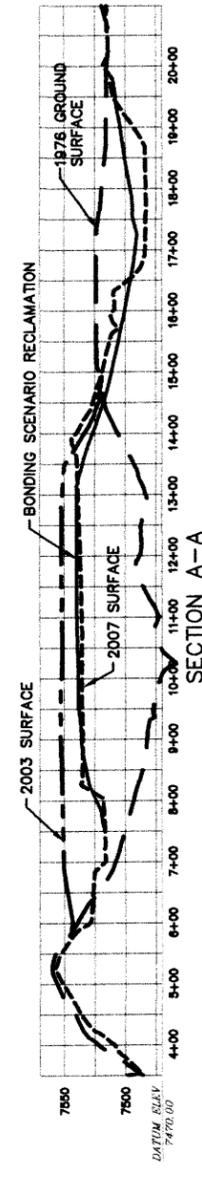
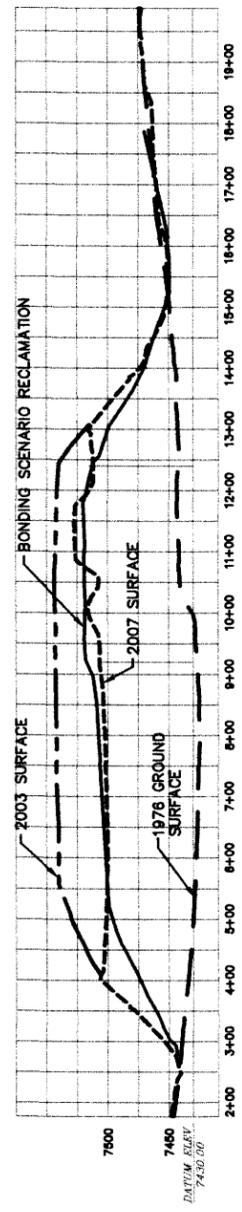
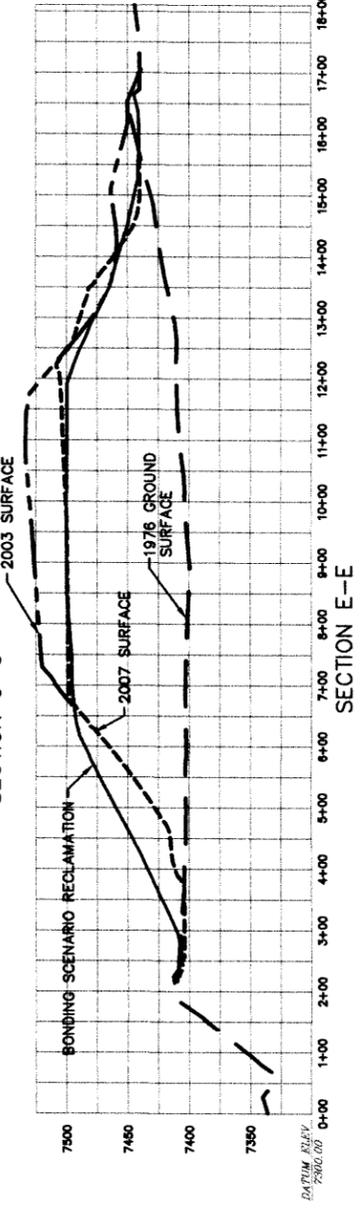
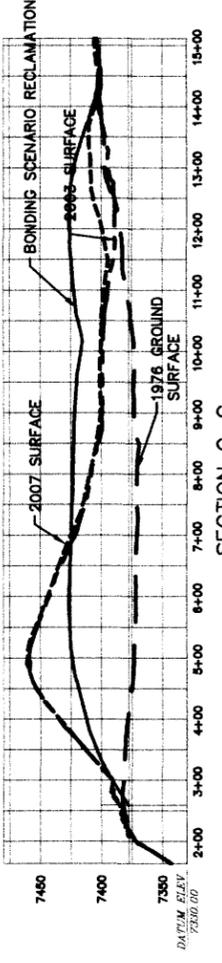
542.200b

GRAPHIC SCALE
0' 150' 300' 600' 900'

Horiz. Scale: 1"=300'
Vert. Scale: 1"=150'

LEGEND

- 2007 SURFACE
- 2003 SURFACE
- 1976 SURFACE
- BOND SCENARIO

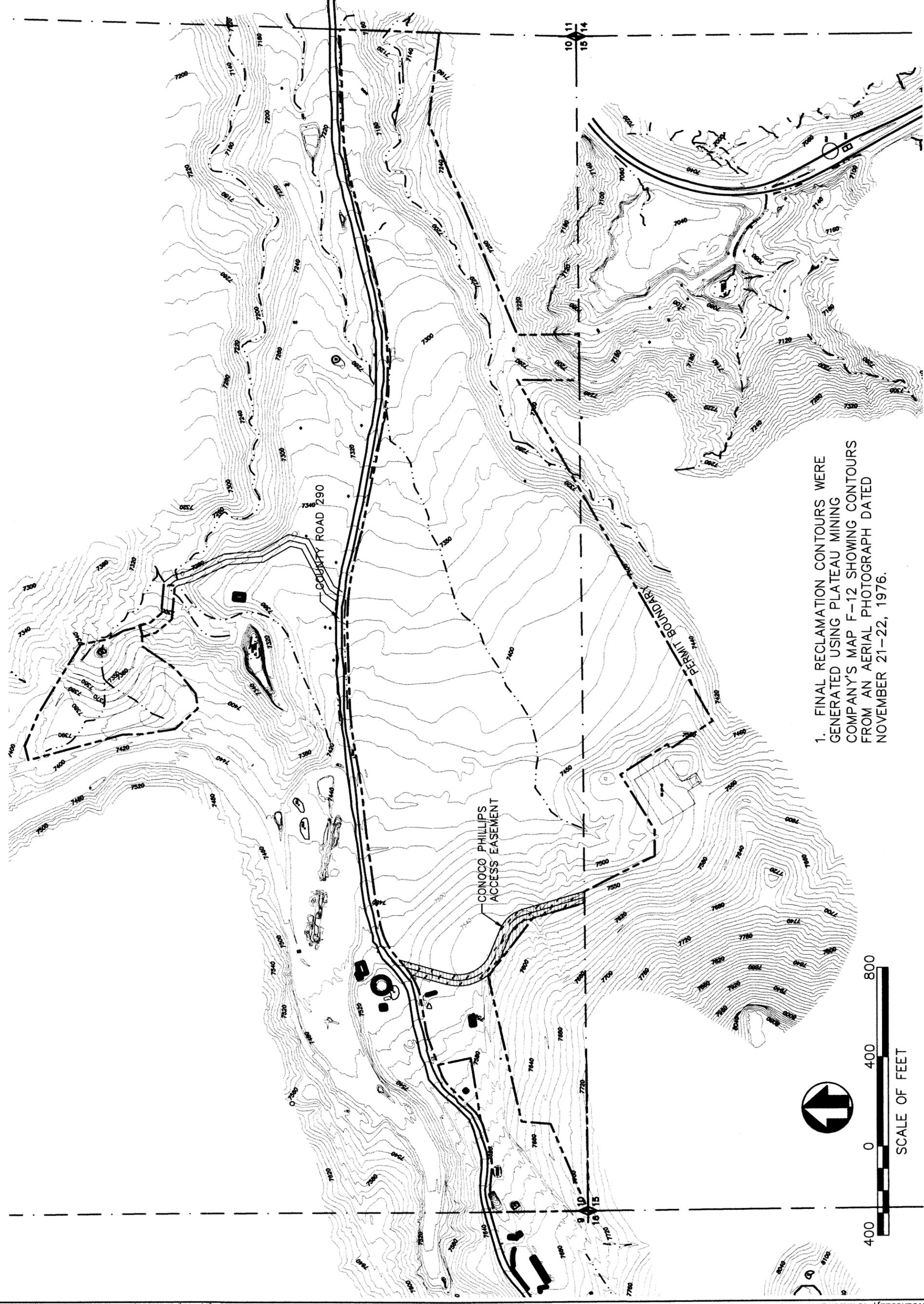




SCA / STAR POINT WASTE FUEL
REFUSE PILE
FINAL RECLAMATION TOPOGRAPHY

TWIN PEAKS
Engineering & Land Surveying
1880 NORTH 800 EAST LEHI, UTAH 84043
(801) 450-3511, (801) 439-0700 FAX

542.200e



1. FINAL RECLAMATION CONTOURS WERE
GENERATED USING PLATEAU MINING
COMPANY'S MAP F-12 SHOWING CONTOURS
FROM AN AERIAL PHOTOGRAPH DATED
NOVEMBER 21-22, 1976.



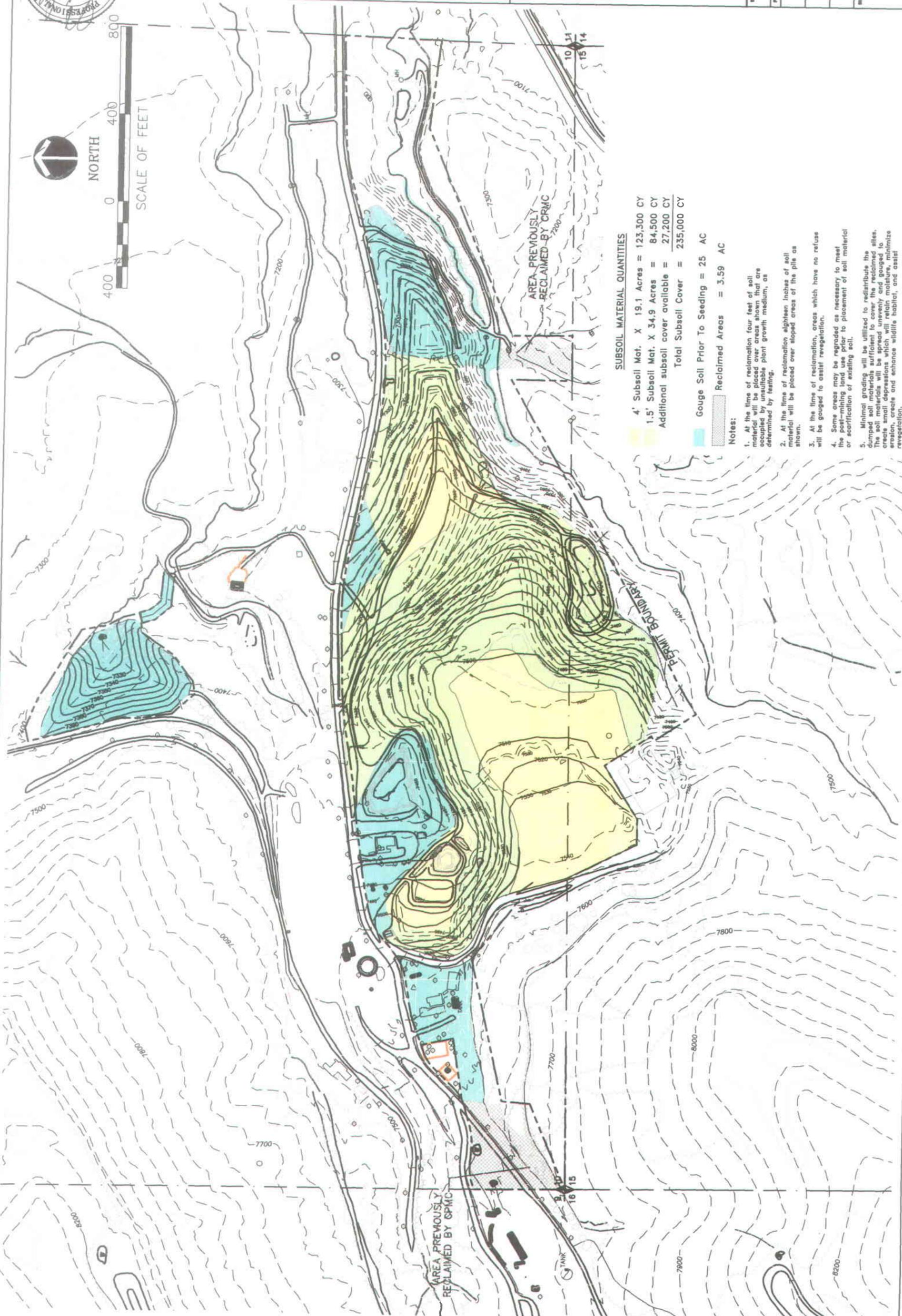
SCA / STAR POINT WASTE FUEL
 BONDING SCENARIO RECLAMATION
 SUBSOIL COVER PLAN

TWIN PEAKS
 Engineering & Land Surveying
 1880 NORTH 800 EAST LEHI, UTAH 84043
 (801) 450-3511, (801) 439-0700 FAX



DATE	
DATE	
DATE	

542.200f



SUBSOIL MATERIAL QUANTITIES

- 4' Subsoil Mat. X 19.1 Acres = 123,300 CY
- 1.5' Subsoil Mat. X 34.9 Acres = 84,500 CY
- Additional subsoil cover available = 27,200 CY
- Total Subsoil Cover = 235,000 CY**

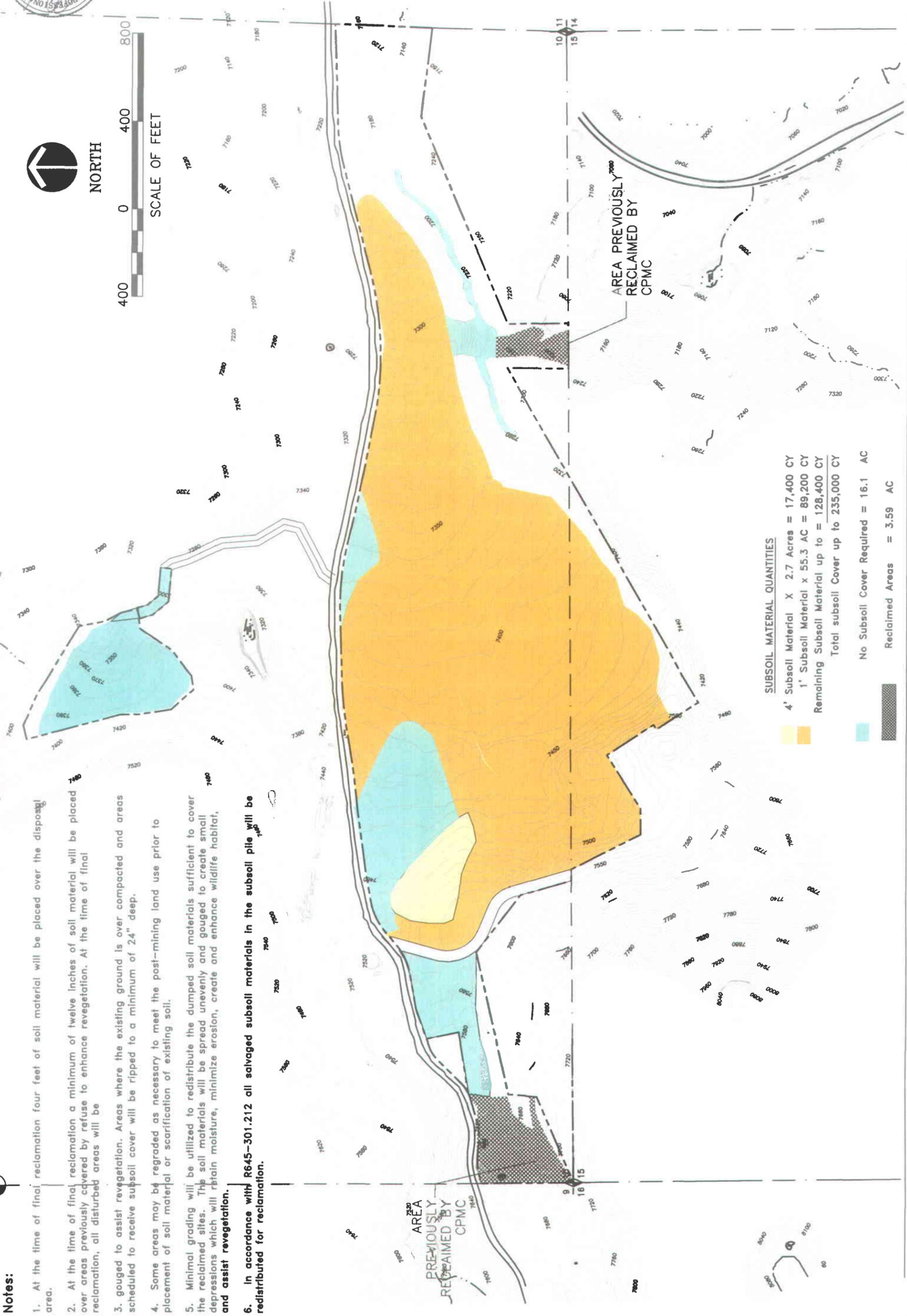
- Gauge Soil Prior To Seeding = 25 AC
- Reclaimed Areas = 3.59 AC

Notes:

1. At the time of reclamation four feet of soil material will be placed over areas shown that are occupied by unsuitable plant growth medium, as determined by testing.
2. At the time of reclamation eighteen inches of soil material will be placed over sloped areas of the pile as shown.
3. At the time of reclamation, areas which have no refuse will be gouged to assist revegetation.
4. Some areas may be regraded as necessary to meet the post-mining land use prior to placement of soil material or scarification of existing soil.
5. Minimal grading will be utilized to redistribute the dumped soil materials sufficient to cover the reclaimed sites. The soil materials will be spread unevenly and gouged to create small depressions which will retain moisture, minimize erosion, create and enhance wildlife habitat, and assist revegetation.

Notes:

1. At the time of final reclamation four feet of soil material will be placed over the disposal area.
2. At the time of final reclamation a minimum of twelve inches of soil material will be placed over areas previously covered by refuse to enhance revegetation. At the time of final reclamation, all disturbed areas will be
3. gouged to assist revegetation. Areas where the existing ground is over compacted and areas scheduled to receive subsoil cover will be ripped to a minimum of 24" deep.
4. Some areas may be regraded as necessary to meet the post-mining land use prior to placement of soil material or scarification of existing soil.
5. Minimal grading will be utilized to redistribute the dumped soil materials sufficient to cover the reclaimed sites. The soil materials will be spread unevenly and gouged to create small depressions which will retain moisture, minimize erosion, create and enhance wildlife habitat, and assist revegetation.
6. In accordance with R645-301.212 all salvaged subsoil materials in the subsoil pile will be redistributed for reclamation.



SUBSOIL MATERIAL QUANTITIES

4' Subsoil Material X 2.7 Acres = 17,400 CY
1' Subsoil Material x 55.3 AC = 89,200 CY
Remaining Subsoil Material up to = 128,400 CY
Total subsoil Cover up to 235,000 CY

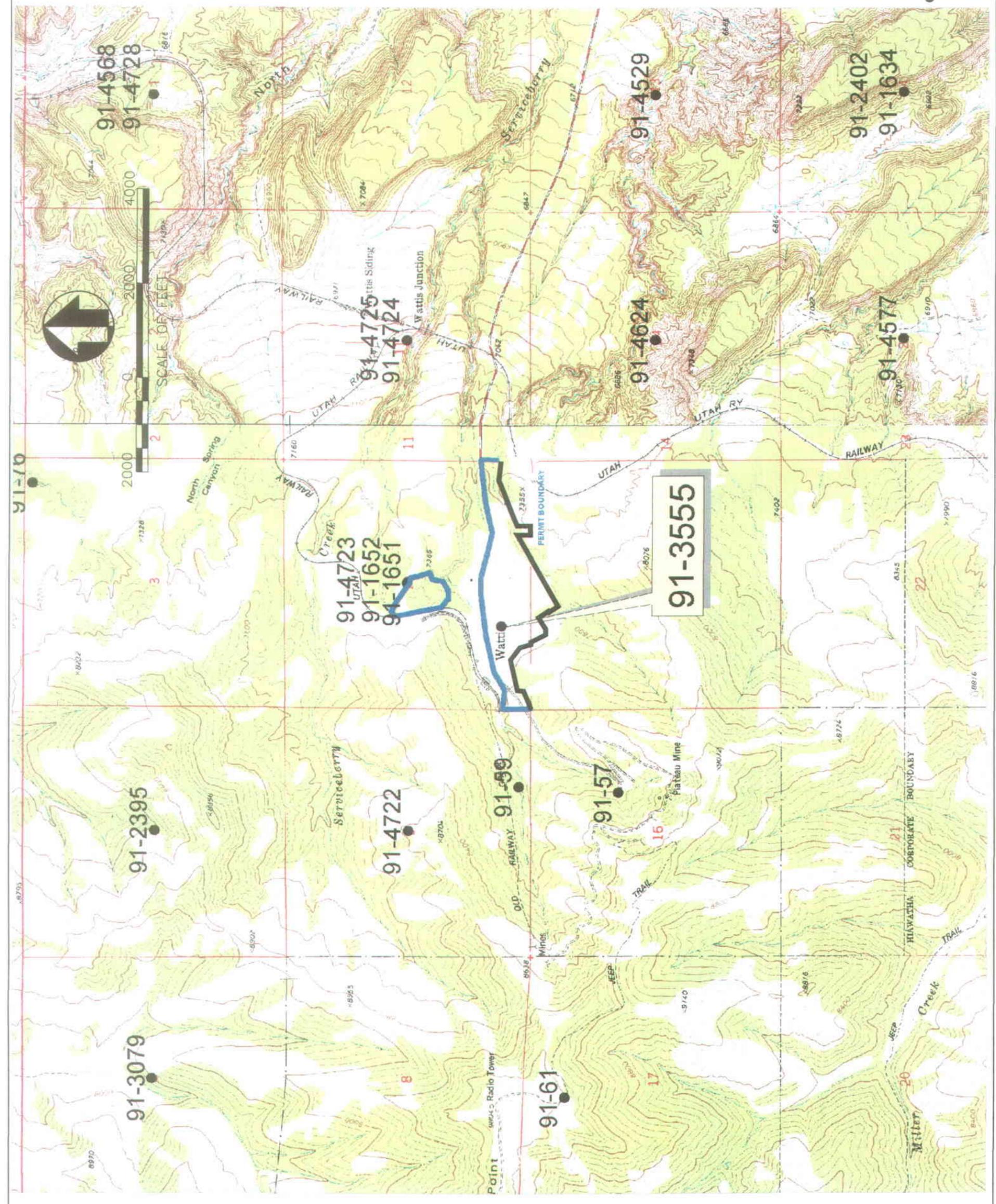
	No Subsoil Cover Required = 16.1 AC
	Reclaimed Areas = 3.59 AC



SCA / STAR POINT WASTE FUEL
FINAL RECLAMATION
SUBSOIL COVER PLAN

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542.200g



LEGEND
 ● 91 4624
 — WATER RIGHT POINT OF DIVERSION



SCA / STARPOINT WASTE FUEL
 WATER RIGHT
 POINT OF DIVERSION LOCATIONS

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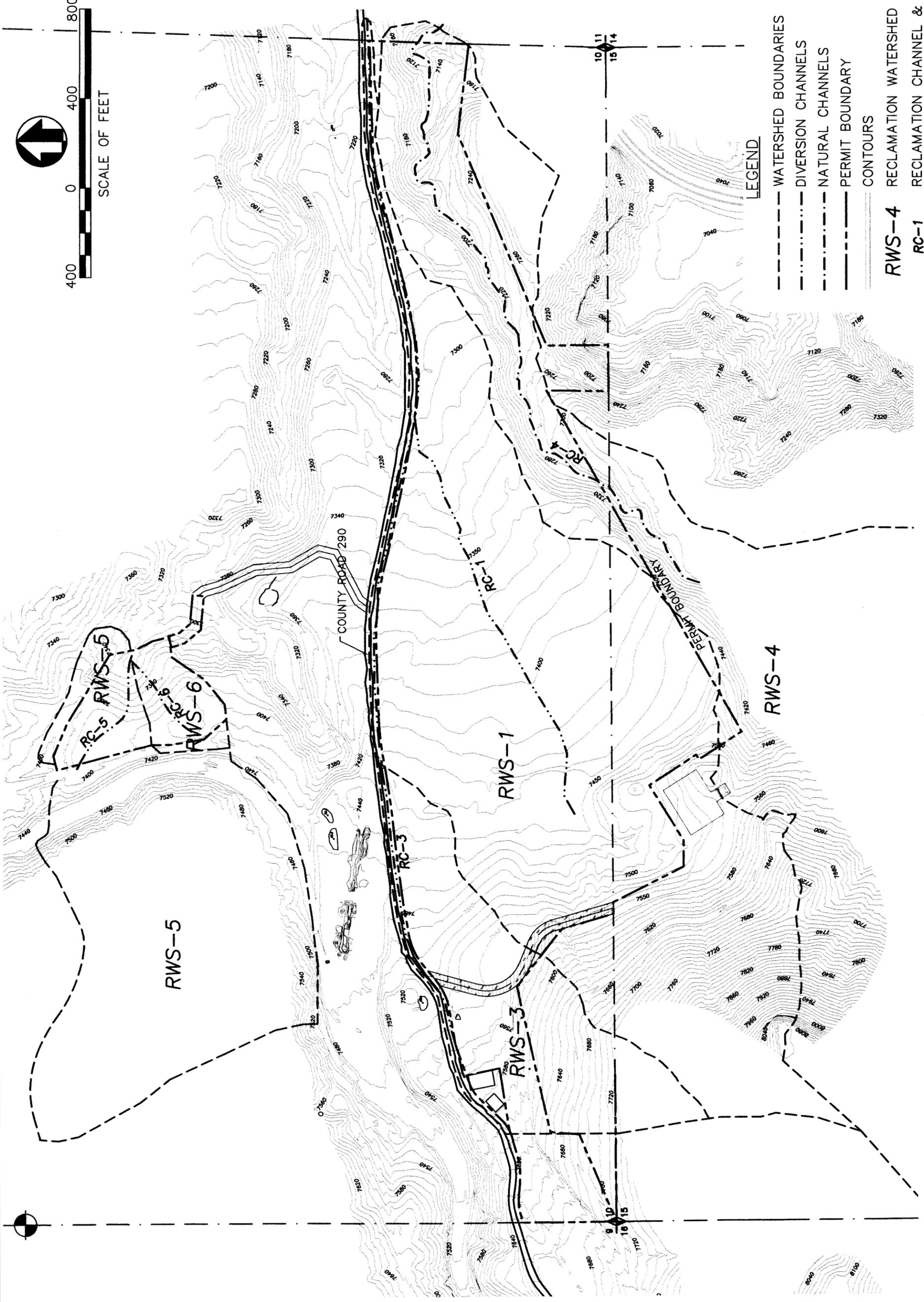
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SCA / STAR POINT WASTE FUEL
FINAL RECLAMATION
WATERSHEDS & SEDIMENT CONTROL

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761a

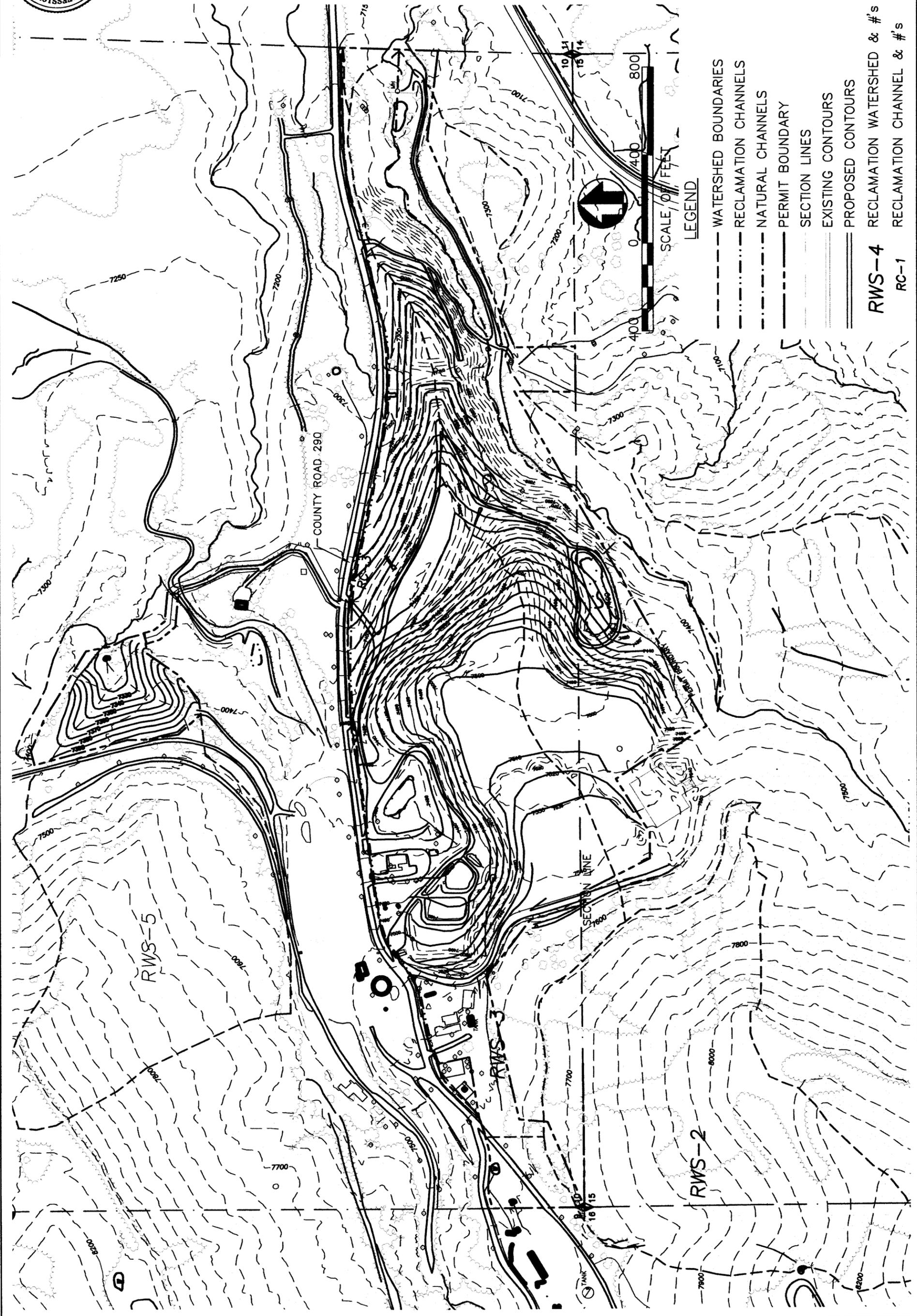


LEGEND

- WATERSHED BOUNDARIES
- - - - - DIVERSION CHANNELS
- · - · - · NATURAL CHANNELS
- PERMIT BOUNDARY
- CONTOURS

RWS-4 RECLAMATION WATERSHED & #'s

RC-1 RECLAMATION CHANNEL & #'s



RWS-4 RECLAMATION WATERSHED & #'s
 RC-1 RECLAMATION CHANNEL & #'s

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SCA / STAR POINT WASTE FUEL
 BONDING SCENARIO RECLAMATION
 WATERSHEDS AND SEDIMENT CONTROL

