

**Erosion Control, Revegetation, and Restoration Plan (ERRP)
For
Anschutz Pinedale Corporation**

I. INTRODUCTION

Clear identification of reclamation goal.

The objectives for reclamation efforts emphasize the following:

- 1) stabilization through establishment of ground cover
- 2) establishment of vegetation consistent with land use planning
- 3) reduction of visual contrast

Short description of activity causing disturbance and project time frames.

Activities of Anschutz Pinedale Corporation causing disturbance and their corresponding project time frames are shown in the table below.

Table 1: Projects and Timelines

Project Name	Duration of Project	End of Project Life (estimate)
Two Buttes 16-15cd Pad and Road	Reclamation efforts on this pad have begun, but were not completed due to changes in drilling plans and the possibility of another well at this site.	March 2038
Two Buttes 16-15 Central Production Facility	All areas not needed for operations have been reclaimed. The remaining areas will be reclaimed when the Two Buttes 16-15cd is abandoned.	March 2038
Mesa 3-19a Pad and Road	Multiple wells will be drilled on this pad, during multiple drilling seasons, so reclamation efforts will not begin until all wells have been completed.	July 2051

Project sites will be reclaimed within 60 days of submission of the sundry notice notifying the BLM of reclamation intentions. Estimates for the end of project life are based upon decline curve analysis when available. When a project is no longer economic, it is considered to have reached the end of its project life.

Set time frames for ERRP.

Reviews of reclamation efforts will be conducted in the second and fourth growing season following completion of the project. The ERRP will be

considered implemented when 70% of the original ground cover has been restored.

Soil surveys may be required in intensively developing areas for site development mitigation and impact analysis.

II. OBLIGATION

Exactly who (individual name, address, phone) is responsible for what in the design of plan, execution of plan, monitoring of progress.

The following individual is responsible for the design, execution, and monitoring of the plan:

Mr. Hal Koerner
Vice President
Anschutz Pinedale Corporation
555 Seventeenth Street, Suite 2400
Denver, CO 80202
(303) 298-1000

III. SITE MAPS FOR PROJECTS

Site maps for the projects listed in Table 1 can be found at the end of the ERRP.

Material removed from the construction site will be stored in stock piles. Topsoil and stripped vegetative cover will be stored in stockpiles separate from non-organic based fill-dirt. This material would remain stored in a stock pile until revegetation efforts begin.

Existing vegetative cover consists primarily of bunchgrasses and sagebrush. Vegetation cover is approximately 70%. Water will flow off the graveled road and drilling locations, onto non-irrigated sage.

IV. ZERO RUNOFF

Zero runoff for purposes of the ERRP means: NO portion of natural or man-caused liquid would leave the disturbed area by either surface or sub-surface flow.

All disturbed sites, except linear rights-of-way, would maintain zero runoff until the area is stabilized. Stabilization would be a value that must be clearly defined in the plan.

Stabilization for purposes of the ERRP is to mean: That point in time when neither erosion nor deposition occurs which is greater than pre-

disturbance. This point must be measurable (site monitoring) and self-sustaining, i.e., not dependent on site maintenance.

The AO can approve a variance from zero runoff based on detailed site specific analysis that would consider meteorology, topography, water quality, and special site design and/or construction measures.

All disturbed sites, except linear rights-of-way, will be designed so that they will maintain zero runoff until the areas are stabilized. A site is considered stabilized when neither erosion nor deposition occurs which is greater than pre-disturbance.

V. EROSION CONTROL MEASURES – BEST MANAGEMENT PRACTICES (BMPs)

Description of proposed measures. Map locating erosion control measures placement

Silt fences will be used to prevent transportation of sediment. Diversion ditches will be used to prevent the flow of water down steep slopes. Diagrams of a typical silt fence and diversion ditch are shown at the end of the ERRP. All culverts and diversion ditches will terminate in dissipaters. The locations of these BMPs are shown on the Site Maps described in Section III. BMPs will be inspected semi-weekly during active construction and monthly after construction but prior to final site stabilization (as per the Storm Water Pollution Prevention Plan), and any erosion control features not functioning properly will be repaired.

VI. FUGITIVE DUST CONTROL

Watering or other approved dust abatement procedures would be implemented, when necessary, to prevent severe wind erosion and loss of soil materials during construction. Describe How and When.

Watering or other approved dust abatement procedures will be implemented, when necessary, to prevent severe wind erosion and loss of soil materials during construction. During construction, a water truck will be kept on site and soil will be moistened when necessary to prevent wind erosion.

VII. REVEGETATION

Type

- **Seed**
- **Established stock**

Site Preparation

Planting

- **Planting time frames**
- **Planting method and equipment**

Fertilization Program

- **Rationale for fertilizing or not fertilizing**

Only plant species adaptable to local soil and climatic conditions will be utilized in revegetation efforts. The following certified or registered seed mixture and application rates will be used:

- 6 lbs PLS/acre Rosana Western Wheatgrass
- 4 lbs PLS/acre Critana Thickspike Wheatgrass
- 4 lbs PLS/acre Bluebunch Wheatgrass
- 4 lbs PLS/acre Indian Ricegrass
- 1 lb PLS/acre Great Basin Wildrye
- 3 lbs PLS/acre Fourwing Saltbush (dewinged)
- 1 lb PLS/acre Winterfat
- ¼ lb PLS/acre Wyoming Big Sagebrush

Seeds will be planted between ¼” and ½” deep. All seeds will be drilled on the contour. Where drilling is not possible (too steep or rocky), seed will be broadcast then the area will be raked or chained so that the seed is covered. If the seed mixture is broadcast, the above seed rate will be doubled. The seeding shall be repeated until a satisfactory stand is obtained.

Efforts will be made to seed after September 1 but prior to ground frost. If it is not possible to seed during this time, seeding will occur in the spring during the BLM approved window.

Fertilization will be utilized if there is evidence of nutrient deficiency in the soil.

VIII. MONITORING SITE RECLAMATION PROGRESS

Methods

Timeframes

The first evaluation of growth will be made during the first growing season following seeding. The second evaluation of growth will be made following completion of the first growing season after seeding. Further reviews of reclamation efforts will be conducted in the second and fourth growing season following completion of the project. The ERRP will be considered implemented when 70% of the original ground cover has been restored.

IX. SITE ABANDONMENT

Include timeframes.

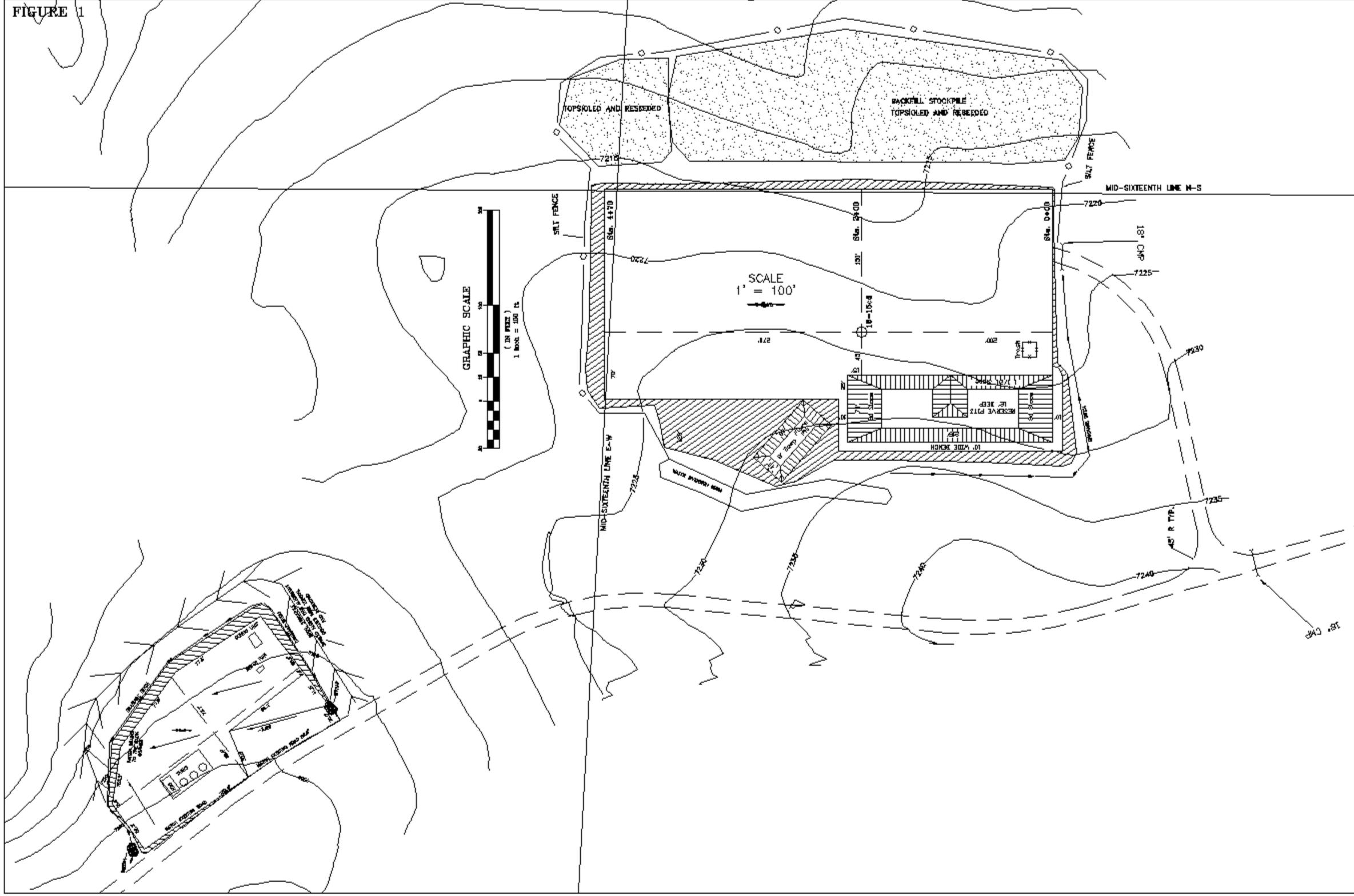
Well sites will be abandoned after they are no longer profitable (end of project life, as estimated in Table 1 of Section I). Areas not previously stabilized will be seeded and the site will be brought to a state of final stabilization.

X. POTENTIAL PROBLEMS

Address possible weak points

Erosion will be monitored as per the Storm Water Pollution Prevention Plan. Snow removal will occur in active areas.

FIGURE 1



ANSCHUTZ PINEDALE CORP.

TWO BUTTES 16-15cd
 LOCATED IN THE
 SW/4SE/4, SEC. 15, T32N, R109W
 SUBLETTE COUNTY, WYOMING

EROSION CONTROL PLAN

JO 2727 15-15 12-18-06

RIO VERDE
ENGINEERING
 P.O. BOX 842 82941
 PINEDALE, WY
 (307) 367-2826
 FAX# (307) 367-2546

EROSION CONTROL PLAN

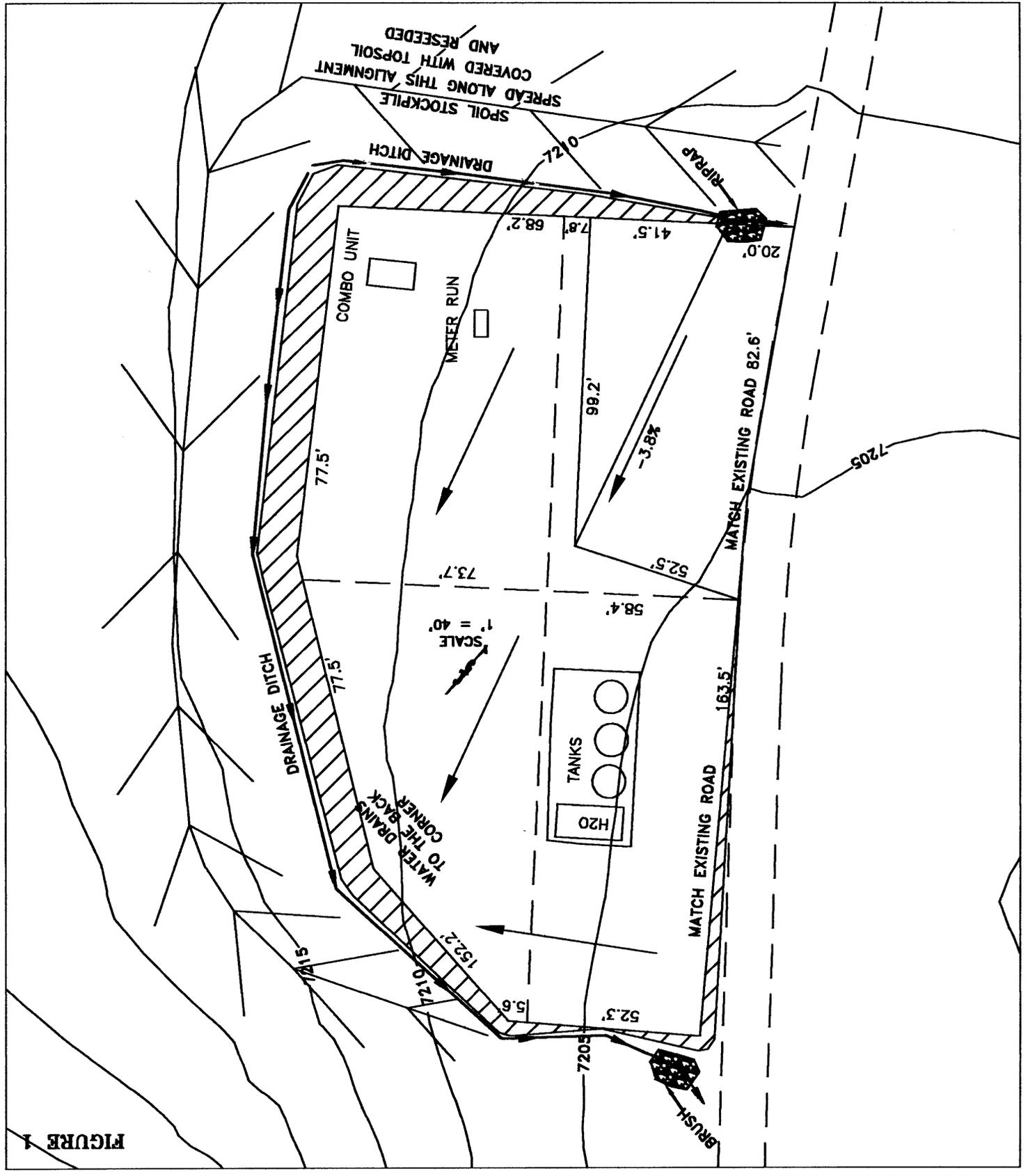
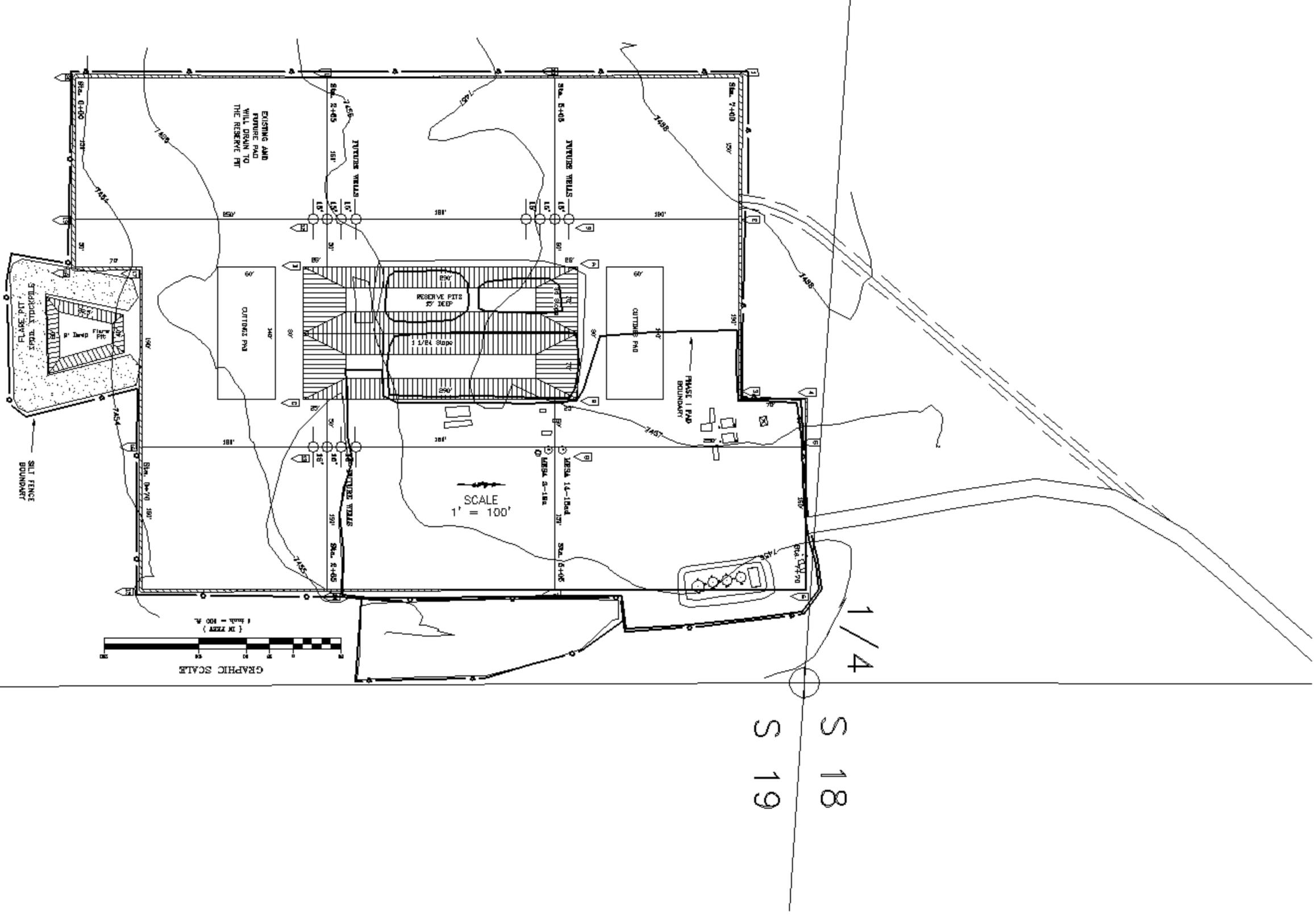


FIGURE 1

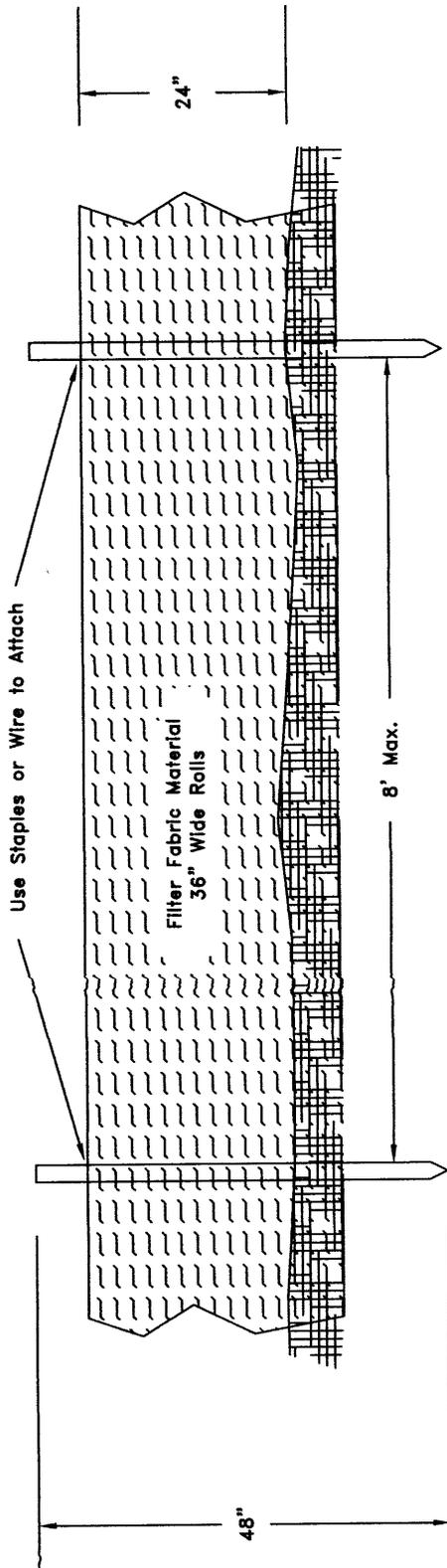


ANSCHUTZ PINEDALE CORP.

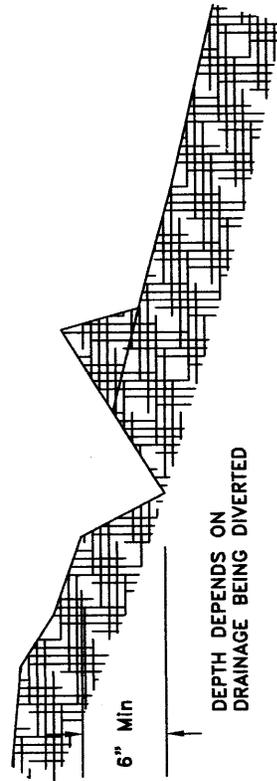
MESA 14-18ad & 3-18a
 LOCATED IN
 LOT 1 (NE/4NW/4), SEC. 19, T32N, R109W
 SUBLETTE COUNTY, WYOMING

DESIGNED BY: MCE
 DRAWN BY: MCE
 CHECKED BY: RVE
 DATE: 12-18-06
 J.D. 2727
 PAGE: 1 OF 1

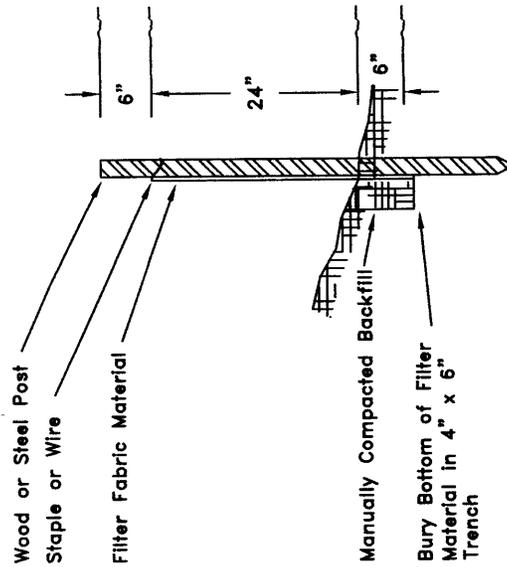
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 PINEDALE, WYOMING



FRONT VIEW NTS



TYPICAL DITCH
DETAIL NTS



SIDE VIEW NTS