

Incoming  
2/007/039



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FACSIMILE TRANSMITTAL

DATE: 4/24/03 No. Of Pages (Including Cover Sheet) 5

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REMARKS: Pages 2-2, 2-4 then 2-6

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THANKS  
Vicky

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**222.200 Soil Identification**

<u>Well No.</u>	<u>Soil Map Unit</u>	<u>Soil Components</u>
MW-06	62	Midfork-Comodore complex
MW-08	7	Beje-Trag complex, 3-30% slopes

**222.300 Soil Description**

Refer to Attachment 2-1 of the submittal for soil descriptions.

**222.400 Soil Productivity**

The depth of topsoil at each site was measured to determine the amount of growth medium available for reclamation. The following table lists each well site and the approximate amount of growth medium available.

**TABLE 2-1  
 Topsoil Volumes**

<b>Well No.</b>	<b>Cubic Yard of Material</b>
MW-06	540 1387
MW-08	2967

Figure 5-1 and Figure 5-2 show the layout and approximate size of each well pad.

Estimated topsoil salvage from the MW-06 well site will be 10" on the west side of the existing road, 18" on the east side of the road the north portion and 12" on the south portion. All available topsoil will be salvaged and stockpiled.

**231.300 Testing of Topsoil Handling and Reclamation Procedures  
Regarding Revegetation**

Dugout will exercise care to guard against erosion during and after application of topsoil and will employ the necessary measures to ensure the stability on graded slopes. Erosion control measures will include silt fences, berms, seeding, straw bales, and mulching of the soils.

Topsoil will be redistributed and the original soil surface beneath the topsoil stockpile will be roughened and seeded with seed mix as presented in Section 242.100 and Chapter 3, Section 352.

Phase two (2) reclamation grading of the sites will occur after venting of the methane gas is completed. See De-Gasification Well Reclamation on Figure 5-7 for details on timing.

Methods used to evaluate success of revegetation and stabilization are discussed in Chapter 3, Section 356.

**231.400 Construction, Modification, Use, and Maintenance of Topsoil Storage Pile**

Topsoil removed from the drill pad sites will be stockpiled on the site. The estimated volumes of topsoil stockpile for each site are shown in Table 2-1. The stockpiles will be sized as shown in Table 2-2.

The slopes of the stockpile will be 1.25H:1V or approximately 38° the natural angle of repose for earth.

**TABLE 2-2  
Topsoil Stockpile Dimensions\***

Well No.	Length (ft)	Width (ft)	Height (ft)
MW-06	120	20 30	6.4 10
MW-08	160	40	12.5

\* These are approximate Dimensions of the topsoil stockpile and construction Dimensions may vary.

See Section 234.200 for detailed information on the topsoil stockpile(s).

## 232 Topsoil and Subsoil Removal

### 232.100 Topsoil Removal and Segregation

All topsoil will be removed as a single layer with no segregation. Topsoil will be removed using a dozer and/or loader. Refer to Section 231.100 for additional details.

### 232.200 Poor Topsoil

No poor soils exist at either well site see Attachment 2-1.

### 232.300 Thin Topsoil

Not applicable.

### 232.400 Minor Disturbances Not Requiring Topsoil Removal

Not applicable.

### 232.500 Subsoil Segregation

The B and C soil horizons will not be removed. Any small quantity of subsoil removed with the topsoil will not be segregated.

### 232.600 Timing

Topsoil removal will take place after all vegetation that could interfere with salvaging the topsoil has been grubbed and moved to the disturbed area perimeter. ~~if space is not available to temporarily store all the vegetation, the excess will be burned. Burning permits will be obtained and burning will only occur when allowed by the burning index.~~

### **232.700 Topsoil and Subsoil Removal Under Adverse Conditions**

The topsoil will be removed first and stockpiled and the remaining soil horizons will be left in place, except where natural conditions render removal operations hazardous or detrimental to soils outside the disturbed area then topsoil will not be removed.

**Conventional Machines** - In locations where steep grades, adverse terrains, severe rockiness, limited depth of soils, or other adverse conditions exist that render soil removal activities using conventional machines hazardous, soils will not be salvaged and stockpiled. Such conditions are not likely to occur in these areas.

**Substitute Topsoil** - Importing of substitute topsoil is not anticipated (Section 224).

### **233 Topsoil Substitutes and Supplements**

#### **233.100 Overburden Materials Supplementing and/or Replacing Topsoil**

No overburden material will be used.

#### **233.200 Suitability of Topsoil Substitutes and Supplements**

Not applicable.

#### **233.300 Physical and Chemical Analysis**

\* See Section 243. Not applicable.

#### **233.400 Testing of Substitute Topsoil**

No substitute topsoil if planned.