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Incoming
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FACSIMILE TRANSMITTAL

DATE: 4/22/03 No. Of Pages (Including Cover Sheet) 10

TO: Priscilla Barton

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REMARKS: CALL ME WITH ANY QUESTIONS.

INCLUDED ARE REVISED PAGES 1-1, 1-5, 2-5

2-7, 2-8, 2-9, 3-6, 5-7 AND PAD

AREA DRAWING FOR WELL MW-6.

FIGURE 1-1 IS BEING REVISED TO SHOW

ONLY EXISTING ROADS, NOT UPGRADED

ROADS WILL EXIST. SEE TEXT ON PAGE 5-7.

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APR 22 2003

**Canyon Fuel Company, LLC
Dugout Canyon Mine**

**Methane De-gasification Amendment
March April 2003**

**110 MINIMUM REQUIREMENTS FOR LEGAL, FINANCIAL, COMPLIANCE AND RELATED
INFORMATION**

111 Introduction

The de-gasification wells will be located on property owned by Canyon Fuel Company, LLC. The well locations are found in Table 1-1 and are shown in Figure 1-1.

**TABLE 1-1
Well Site Locations
Pine Canyon, Utah Quadrangle
Salt Lake Meridian**

Hole Number	Section	Township and Range
* MW-06	Portion of SE1/4SE1/4NE1/4 Section 16	Township 13 South, Range 12 East
* MW-08	Portion of SW1/4SW1/4NE1/4 Section 15	Township 13 South, Range 12 East

112 Identification of Interests

Refer to the same section of the approved M&RP.

112.100 Business Entity

Refer to the same section of the approved M&RP.

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113 Violation Information

Refer to the same section in the approved M&RP.

114 Right-of-Entry Information

Refer to the same section of the approved M&RP.

See Table 1-2 for disturbed acreage for each well site. The disturbed acres will be added to the total disturbed acreage for the Dugout Mine as each site is constructed.

**TABLE 1-2
Disturbed Acres by Well Site**

Well Site	Disturbed Acres
MW-06	0.86
MW-08	1.41

The disturbed acreage for MW-06 was derived from the acreage within the pad area minus the dimensions of the road to be left after reclamation.

115 Status of Unsuitability Claims

Refer to the same section of the approved M&RP.

116 Permit Term

Refer to the same section of the approved M&RP.

117 Insurance, Proof of Publication, and Facilities and Structures Used in Common

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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.

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 temporary 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.~~

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234 Topsoil Storage

234.100 Topsoil Stockpiling

Topsoil will be stockpiled for later use in reclamation operations.

234.200 Topsoil Stockpile

Stable Stockpile Site - Stockpiled material will be placed on a stable site.

Protection from Contaminants and Compaction - To protect the topsoil from contaminants and unnecessary compaction that could interfere with vegetation, the stockpile will be isolated from the main surface area by a berm and/or silt fence. A sign designating "topsoil storage" will be installed on the stockpile.

The topsoil stockpile will be constructed in such a manner as to allow equipment access for repair of the pile surfaces and diversion structures as needed.

Wind and Water Erosion Protection - The topsoil stockpile will be protected from water erosion by berms and/or silt fence to help trap sediment runoff from the stockpile. The stockpile will be surface pitted and/or roughened and revegetated using the grass, forb, and shrub seeds listed in Table 3-2 (no seedlings will be planted on the stockpile) to prevent wind erosion.

Topsoil Redistribution - Stockpile soil will not be moved until redistribution during contemporaneous or final reclamation operations unless approved by the Division.

234.300 Topsoil Stockpile Relocation

Stockpiled soil in jeopardy of being detrimentally affected in terms of its quantity and quality by drilling operations may be temporarily redistributed or relocated on approval by the Division and modification of this M&RP.

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240 RECLAMATION PLAN

241 General Information

Reclamation of the de-gasification sites (topsoil redistribution, amendments, and stabilization) is discussed in Sections 242, 243, and 244 respectively.

242 Soil Redistribution

242.100 Soil Redistribution Practices

The topsoil will be placed after recontouring of the site has occurred. The approximate amount of topsoil available for each site is shown in Table 2-1.

Topsoil will be handled when they are loose or in a friable condition. The moisture content will be visually monitored and water will be added as needed to enhance the soil's condition for handling.

Topsoil will be moved from the stockpile and spread using a front-end loader and/or track excavator.

Soil Thickness - The topsoil will be distributed to the disturbed area as shown in Table 2-3.

TABLE 2-3

Topsoil Distribution Thickness

Well No.	Approximate Topsoil Thickness
MW-06	8 1/4"
MW-08	16 1/4"

Compaction - Prior to the application of topsoil, compacted subsoils will be roughened or loosened for a depth of 18 to 24 inches. To prevent compaction of topsoil, soil moving equipment will refrain from unnecessary operation over spread topsoil. The topsoil will be loosened prior to seeding.

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The dirt excavated to create the mud pit will be mixed with the drill cutting to prevent a boundary of hard material from forming in the mud pit area that would hamper root penetration.

Erosion - Care will be exercised to ensure the stability of topsoil on graded slopes to guard against erosion during and after topsoil application. Post reclamation erosion control measures will be surface roughing.

242.200 Regrading

The area will be graded to the approximate original topographic configuration.

242.300 Topsoil Redistribution on Impoundments and Roads

The mud pits and embankments will be dismantled and reclaimed with the well site. The access roads will not be reclaimed.

243 Soil Nutrients and Amendments

The soils will be analyzed directly following salvage ~~before being redistributed~~ to determine if amendments are needed. Testing of the topsoil will be done according to Table 6 of the Division's Topsoil and Overburden Guidelines. The topsoil will be tested at a minimum for the following parameters: pH, electrical conductivity, total carbon, SAR, water holding capacity, plant available nitrogen, and phosphorus.

244 Soil Stabilization

244.100 Protection and Stabilization of Surface Area

All reclaimed areas will be stabilized to control erosion by application of mulch and roughening of the surface. The areas will be graded to the approximately original topographic configuration. Seeding will be accomplished with the application of seeds and mulch with a long fiber tackifier. Methods of protection and stabilization are further discussed in Section 340.341.

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and maintain revegetated areas throughout the bond liability period.

The well sites will be fenced to prevent wildlife and livestock from grazing the reclaimed areas until bond release.

341.100 Schedule and Timetable

The reclamation timetable as shown in Figure 5-7 of this submittal and reclamation monitoring schedule is found in Chapter 3, Table 3-3 of the approved M&RP.

341.200 Descriptions

Species and Amounts of Seed - The well sites will be planted with the seed mixes listed in on Table 3-2. The seed mix will be used in both contemporaneous and final reclamation phases. The seed will be incorporated with mulch and applied by hydroseeding. Refer to Section 234.200 for topsoil stockpile seeding description.

Methods Used for Planting and Seeding - The de-gasification sites will be graded and reclaimed. Refer to Chapter 5 for discussion of the sequence of the construction and reclamation of the sites.

The area will be graded to final contour, then ripped to relieve compaction. The depth of ripping will be from 18 to 24 inches. Following ripping, topsoil will be applied to the ripped surface and left in a roughened state.

Mulching Techniques - Organic mulch will be applied at the rate of 2,000 pounds per acre and anchored with a tackifier.

Irrigation, Pest, and Disease Control - No irrigation is planned and pesticides will not be used unless previously approved by the Division.

Measures Proposed for Revegetation Success - Refer to Section 356.

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527 Transportation Facilities

527.100 Road Classification

MW-06 and MW-08 will be developed on or next to existing private roads as shown on Figure 1-1. The existing roads will be classified as primary roads and will be maintained as required by landowner.

527.200 Description of Transportation Facilities

The well sites were chosen close to existing roads in the area to prevent disturbing more surface. ~~The existing roads are shown on Figure 1-1. are classified as an existing road with no up grade (red) and existing roads requiring up grade (yellow). When necessary existing roads will be graded, but no additional soils or vegetation will be disturbed. The roads requiring up grade will be regraded, but will not be cut any wider.~~ The existing roads are approximately 20 feet wide and are shown on Figure 1-1. See Figure 5-5 for a typical cross section of the existing roads.

528 Handling and Disposal of Coal, Excess Spoil, and Coal Mine Waste

No disposal of coal, excess spoil, and coal mine waste will occur at the well sites.

529 Management of Mine Openings

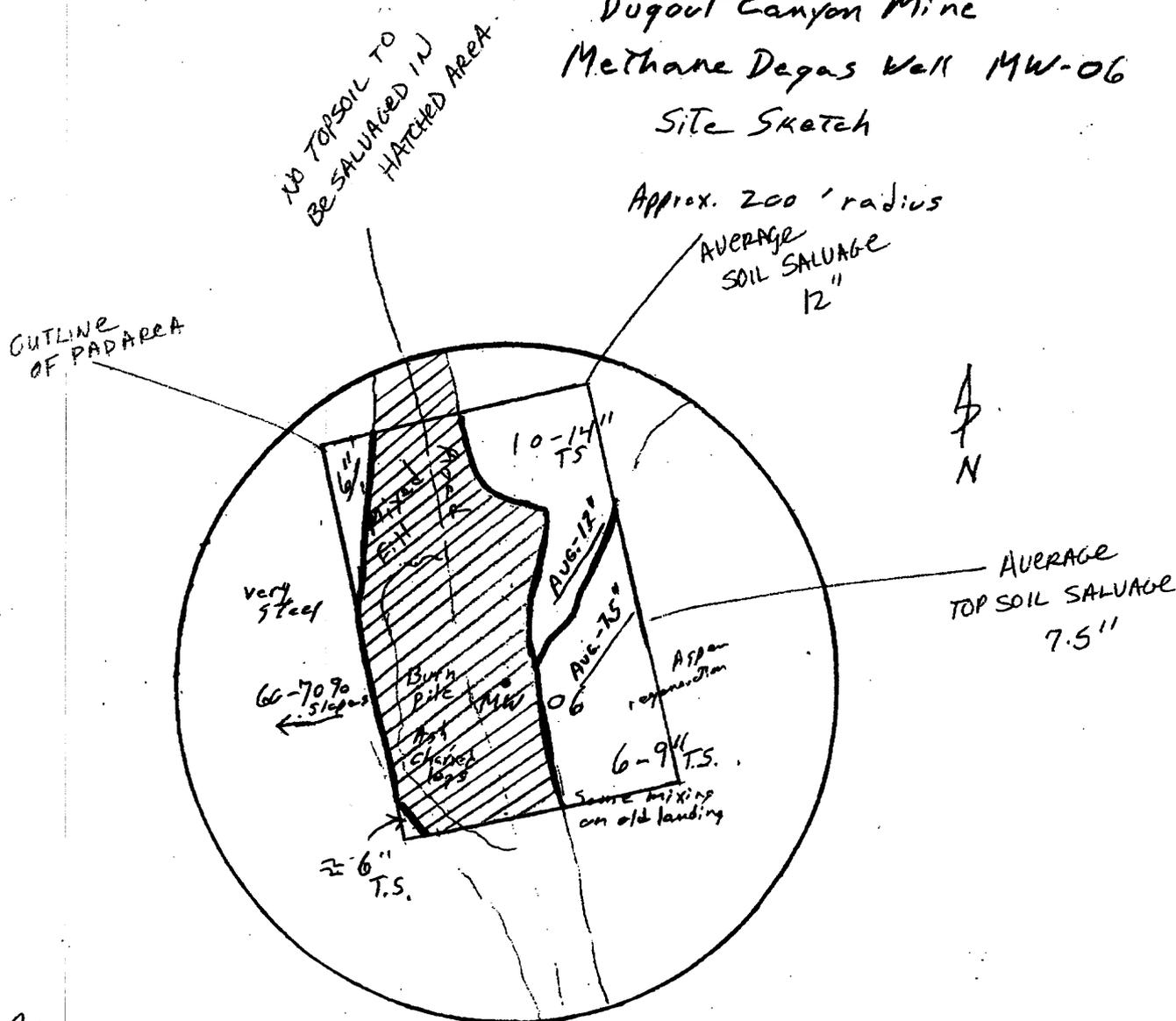
The perimeter of the sites will be fenced. MW-06 will have two (2) gates to allow access through the site since the pad will be built on the existing road. The well casing will have a valve that is closed and locked. The valve will also prevent access by animals or other material. A 20 foot radius around the well casing will be free of any plant life to reduce the possibility of fuel for fires.

530 OPERATIONAL DESIGN CRITERIA AND PLANS

531 General

5-8-02 DML

Dugout Canyon Mine
Methane Degas Well MW-06
Site Sketch



Topsoil Amounts

$$8067.60 \text{ SF} \times 1 \text{ FT} = 8,067.60 \text{ CF} \div 27 \text{ CF/CY} = 298.80 \text{ CY}$$

$$8901.5 \text{ SF} \times .63 \text{ FT} = 5,607.63 \text{ CF} \div 27 \text{ CF/CY} = 207.69 \text{ CY}$$

$$1804.14 \text{ SF} \times .5 \text{ FT} = 902.07 \text{ CF} \div 27 \text{ CF/CY} = 33.41 \text{ CY}$$

539.90 CY

USE 590 CY

Topsoil (T.S.)

The northeast corner has the thickest topsoil (10-14")

The old landing area east of the road has some mixed soil but about 6 to 9 inches is suitable topsoil.

There is a large burn pile site and very steep slopes on the west half