

ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL

Manual No.: 5-21000-OPS-GT  
Procedure No.: Table of Contents, Rev 15  
Page: 1 of 4  
Effective Date: 01/31/92  
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH  
INCLUDES:

This is a  
**CONTROLLED DOCUMENT**  
This is a RED Stamp

VOLUME I: FIELD OPERATIONS (FO)  
VOLUME II: GROUNDWATER (GW)  
VOLUME III: GEOTECHNICAL (GT)  
VOLUME IV: SURFACE WATER (SW)  
VOLUME V: ECOLOGY (EE)  
VOLUME VI: AIR (AP)

TABLE OF CONTENTS  
FOR VOLUME III: GEOTECHNICAL

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT.01	Logging Alluvial and Bedrock Material	1	08/30/91
DCN 91.01	Recording lithologic descriptions and securing core boxes	1	11/15/91
DCN 91.02	Clarification of log approval for multi-use wells	1	12/03/91
GT.02	Drilling and Sampling Using Hollow Stem Auger Techniques	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 91.02	Correction of well location for low Alluvial thickness	1	11/06/91
DCN 91.03	Ten foot long core barrels	1	11/15/91
DCN 92.01	Clarify unconsolidated core sample requirements	1	01/20/92
GT.03	Isolating Bedrock from Alluvium with Grouted Surface Casing	1	08/30/91
DCN 91.01	Superseded by DCN 91.03	1	12/12/91
DCN 91.02	Superseded by DCN 92.01	1	01/20/92

ADMIN RECORD

CLASSIFICATION/UCM

By *[Signature]*  
Date *10/92*

REVIEWED FOR CLASSIFICATION

By *[Signature]*  
Date *31 Oct 92 Not Used*

A-SW-000237

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

**Manual No.:**  
**Procedure No.:**  
**Page:**  
**Effective Date:**  
**Organization:**

**5-21000-OPS-GT  
Table of Contents, Rev 15  
2 of 4  
01/31/92  
Environmental Management**

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
DCN 91.03	Change in criteria for cement grouting	1	12/12/91
DCN 91.04	Depth of casing emplacement	1	12/17/91
DCN 91.05	Addition of Grout Ports	1	12/19/91
DCN 92.01	Grout procedure clarification	1	01/20/92
GT.04	Rotary Drilling and Rock Coring	1	08/30/91
DCN 91.01	Superseded by DCN 92.02	1	01/20/92
DCN 91.02	Superseded by DCN 92.01	1	01/20/92
DCN 91.03	Superseded by DCN 91.04	1	12/17/91
DCN 91.04	Clarification of the use of super gel-x	1	12/17/91
DCN 92.01	Clarification of measuring tape decontamination requirements	1	01/20/92
DCN 92.02	Clarification of core barrel decontamination	1	01/20/92
GT.05	Plugging and Abandonment of Boreholes	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 92.01	Surface casing classification	1	01/20/92
GT.06	Monitoring Wells and Piezometer Installation	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 91.02	Superseded by DCN 92.02	1	01/20/92
DCN 91.03	Superseded by DCN 91.06	1	11/08/91
DCN 91.04	Low Alluvial thickness wells	1	11/06/91
DCN 91.05	Superseded by DCN 91.08	1	11/15/91

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-GT  
Procedure No.: Table of Contents, Rev 15  
Page: 3 of 4  
Effective Date: 01/31/92  
Organization: Environmental Management**

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
DCN 91.06	Change in filter pack guidance	1	11/08/91
DCN 91.07	Decontamination for site-wide geological chracterization	1	11/15/91
DCN 91.08	Figure replacement (GT.6-1)	1	11/15/91
DCN 91.09	Sampling with center bit drilling	1	12/03/91
DCN 92.01	Change in penetration depth into bedrock	1	01/20/92
DCN 92.02	Specification of auger size	1	01/20/92
DCN 92.03	Clarification of casing requirements	1	01/31/91
GT.07	Logging and Sampling of Test Pits and Trenches	1	08/30/91
GT.08	Surface Soil Sampling	1	08/30/91
DCN 91.01	Clarification supplementation of GT.08 - Surface Soil Sampling	1	11/26/91
DCN 92.01	Soil core sampling revision	1	01/02/92
GT.09	Soil Gas Sampling and Field Analysis	1	08/30/91
GT.10	Borehole Clearing	1	08/30/91
GT.11	Plugging and Abandonment of Wells	1	08/30/91
DCN 92.01	Clarification of handling of contaminated/ decontaminated surface pad materials	1	01/20/92
GT.15	Geophysical Borehole Logging	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 92.01	Clarification of hole logging requirements	1	01/20/92
GT.17	Land Surveying	1	08/30/91

---

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-GT  
Procedure No.: Table of Contents, Rev 15  
Page: 4 of 4  
Effective Date: 01/31/92  
Organization: Environmental Management**

---

<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
GT.18	Surface Geophysical Surveys	1	08/30/91
GT.19	Field Gas Chromatographs	1	08/30/91
GT.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	1	08/30/91
GT.21	Cone Penetrometer Testing	0	12/19/91

## ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

PRESS FIRMLY AND PRINT LEGIBLY OR TYPE PROPOSED CHANGES TO INSURE DUPLICATE IS MADE ON ALL COPIES

DOCUMENT NUMBER Procedure No. GT.6, Rev.1, 5-21000-OPS-GT

PAGE 1 OF 1

TITLE <b>Monitoring Wells and Piezometer Installation</b>		DATE <b>January 30, 1992</b>	DCN NUMBER <b>5-21000-OPS-GT.6 92.03</b>				
Expires <b>4/30/92</b>							
Limitations/Notes							
Item Number	Page	Step or Paragraph	Changes <small>(Use DCN CONTINUATION SHEET for additional space)</small>				
(1)	9 of 17	Section 5.3.2.1	In the first sentence of the second paragraph, change "...the well assembly will be measured to the nearest 0.01 foot." to "...the well assembly will be measured to the nearest 0.1 foot."				
(2)	14 of 17	Section 5.3.2.3	After the second sentence of the first paragraph, add "A shorter lengthed protective steel casing (no less than 3-foot-long) may be used if installing alluvial monitoring wells where the bedrock is shallow."				
(3)	14 of 17	Section 5.3.2.3	In the second sentence of the first paragraph and the fourth sentence of the fifth paragraph, change "48 hours" to "72 hours."				
<p>Justification (Reason for change - Provide numbers to reference corresponding items above.)</p> <p>(1) An accuracy of a tenth of a foot is adequate.</p> <p>(2) The change is required for shallow monitoring wells.</p> <p>(3) This would compensate for wells drilled on Friday.</p>							
Confirmer	Organization	Req.	Date	Confirmer	Organization	Req.	Date
<i>[Signature]</i>	DAPM	X	1/31/92	<i>[Signature]</i>	EM/PPD	X	1/30/92
<i>[Signature]</i>	EOM	X		<i>[Signature]</i>	CPD	X	1/31/92
12. Approval of Responsible Manager		14. Date		15. Is Posting Required		16. If Yes, by what date	
<i>[Signature]</i>		1/31/92		<input checked="" type="radio"/> Yes <input type="radio"/> No		2-3-92	
				17. Date Posted			