

This is a RED Stamp

**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-GW
Procedure No.: Table of Contents, Rev 7
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Effective Date: 10/22/92
Organization: Environmental Management**

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

**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)**

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GW.01	Water Level Measurements in Wells and Piezometers	2	05/12/92
GW.02	Well Development	2	05/12/92
DCN 92.01	Practice Clarification	2	10/05/92
DCN 92.02	Update Forms to Include Form Number	2	10/22/92
GW.03	Pump-In Borehole Packer Testing	2	05/12/92
GW.04	Slug Testing	2	05/12/92
GW.05	Field Measurement of Groundwater Field Parameters	2	05/12/92
GW.06	Groundwater Sampling	2	05/12/92
DCN 92.01	Form Update	2	10/05/92
DCN 92.02	Update Forms to Include Form Number	2	10/22/92
GW.08	Aquifer Pumping Tests	1	05/12/92
DCN 92.01	Clarify pump testing procedures	1	05/22/92
DCN 92.02	New pumping test data sheets	1	05/15/92

ADMIN RECORD

**DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991**

A-SW-001084

**ENVIRONMENTAL MANAGEMENT
DOCUMENT CHANGE NOTICE (DCN)**

This is a **CONTROLLED DOCUMENT**

Procedure Number **ROCKY FLATS PLANT OPS-GW.02, Rev. 2**
ENVIRONMENTAL MANAGEMENT

This is a RED Stamp

Title Well Development	Date 10/14/92	DCN Number 5-21000-OPS-GW.02 9202 <i>KAM</i>
Expires <u>10/14/93</u> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation: <u>None</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)
1	Form GW.2B (2 pg)	N/A	Replace the old form (Rev. 1.3, 6/1/92), entitled "Rocky Flats Plant Ground Water Redevelopment Log" with the new form (Rev. 2) attached.

Justification (Reason for change - Provide numbers to reference corresponding items above.)

- Old form (issued in DCN 92.01) did not include the form number on the form attached to DCN 92.01. This form (Rev. 2) includes the form number and the revision number.

Concurrence	Organization	Req.	Date	Concurrence	Organization	Req.	Date
<i>[Signature]</i>	QAPM	X	<i>10/22/92</i>	<i>Stephen M. Stuey</i>	User		<i>10/15/92</i>
<i>M.C. Brown</i>	EOM	X	<i>10-20-92</i>				

Approval of Responsible Manager <i>[Signature]</i>	Date <i>10-20-92</i>	Is Posting required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, by what date? date of receipt	Date posted _____
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U.S. DEPARTMENT OF ENERGY

FORM GW.2B
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ROCKY FLATS PLANT GROUND WATER WELL REDEVELOPMENT LOG

PROJECT NAME: Ground Water Re-Development WELL I.D.: _____
 PROJECT NO.: 304902 TEAM MEMBERS: _____
 QC REVIEW BY/DATE: _____ SAMPLES COLLECTED BY: _____
 SOLINST: _____ DATE: _____
SERIAL NUMBER CALIBRATION DATE

PURGE METHOD - TYPE USED:
 BAILER PNEUMATIC PERISTALTIC INERTIA OTHER _____
 BAILER TEFLON STAINLESS OTHER _____

PURGING REQUIREMENTS & CALCULATIONS - DATUM: TOP OF WELL CASING (TOWC)
 ID - WELL CASING INSIDE DIAMETER (INCHES) = _____
 UV - UNIT CASING VOLUME (GAL/LINEAR FOOT) = _____
 WD - DEPTH TO WATER (FEET) = _____
 TD - TOTAL DEPTH (FEET) MEASURED TOTAL DEPTH (MTD) + PROBE END _____
 IC - INITIAL WATER COLUMN (FEET) = TD - WD = _____ - _____ = _____
 IV - INITIAL WATER VOLUME (GALLONS) = UV x IC = _____ x _____ = _____
 CHECKED BY: _____

PURGED VOLUMES AND RECHARGE

VOLUME PURGED (GAL)	TEMPERATURE °C	CONDUCTANCE (ms/cm)	pH (SU)	DO (mg/L)	NITRATE (ppm)	TIME (24 HOUR)	TURBIDITY (FTU)	WATER DESCRIPTION (COLOR, TURBIDITY, ODOR, OIL, ETC.)

EQUIPMENT CALIBRATION

EQUIPMENT TYPE	EQUIPMENT ID NUMBER	STANDARD USED/LOT NUMBER	EQUIPMENT READING	TEMPERATURE (°C)	DATE	TIME

FINAL TOTAL DEPTH FROM MARK ON NORTH SIDE OF INNER CASING

TEAM MEMBER	READING	TOTAL DEPTH	PROBE END	MEASURED TOTAL DEPTH	AVG. MEAS. TOTAL DEPTH

SIGNATURE: _____
 DATE: _____

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ROCKY FLATS PLANT
GROUND WATER WELL REDEVELOPMENT LOG
(Continued)

COMMENTS

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VOLUME 2

VOLUME 3

VOLUME 4