

**START**

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Final

**Meeting Minutes Transmittal/Approval**  
**Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units**  
**2440 Stevens Center, Room 1200 Richland, Washington**  
**March 31, 1994**

FROM/APPROVAL: *Paul M. Pak* Date 4/28/94  
 Paul M. Pak, 200 Aggregate Area Unit Manager, RL (A5-19)

APPROVAL: *Paul R. Beaver* Date 4/28/94  
 Paul R. Beaver, 200 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: *Dib Goswami* Date 4/28/94  
 Dib Goswami, 200 Aggregate Area Unit Manager, WA Dept of Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary
- Attachment #2 - Attendance Sheet
- Attachment #3 - Agenda
- Attachment #4 - Action Item Status List
- Attachment #5 - 200-BP-5 Operable Unit
- Attachment #6 - Maximum VOC Concentrations by Well



Prepared by: *Kay Kimmel* Date: 4/28/94  
 Kay Kimmel, Jim Consort GSSC (B1-42)

Concurrence by: *Curt Wittreich* Date: 4/28/94  
 Curt Wittreich, WHC Coordinator (H6-03)

9443285-0928

**Attachment #1**  
**Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units**  
**March 31, 1994**

**Meeting and Summary of Commitments and Agreements**

- 1. SIGNING OF THE FEBRUARY 200 AREA UNIT MANAGER'S MEETING MINUTES:**  
Meeting minutes were reviewed and approved with minor changes.

- 2. ACTION ITEM UPDATE. See Attachment 4 for status:**

2AAMS.9 Close 03/31/94. On 03/22/94 Bill Lum indicated he had no current need for this data.

2AAMS.10 Closed 03/31/94.

2AAMS.11 Closed 03/31/94.

2AAMS.12 Closed 03/31/94.

- 3. NEW ACTION ITEMS (INITIATED March 31, 1994):**

2AAMS.13 Transmit the 200-UP-1 and 200-ZP-1 Treatability Test Plans and Mike Connelly's groundwater modeling studies for pump and treat to the regulators. Action: Paul Pak.

2AAMS.14 Provide to the regulators a map identifying RCRA wells and CERCLA wells for the 200 East and 200 West areas. Action: Paul Pak.

2AAMS.15 Submit draft dispositions to regulator comments on the 200-BP-5 Treatability Test Plan by April 6. Action: Paul Pak.

2AAMS.16 Provide a schedule describing activities that are required prior to initiating pilot scale studies in the 200-BP-5 Operable Unit by August 1994. Action: Dave Erb.

2AAMS.17 Notify attendees of the time and place for the April 6th meeting to discuss the groundwater strategy for the 200-ZP-1 and 200-BP-5 Operable Units. Action: Paul Pak.

- 4. INFORMATION ITEMS:**

- Status of 200-ZP-1 - Dan Parker provided the status of the 200-ZP-1 Operable Unit. He indicated all regulator comments have been incorporated into the Proposed Plans. The documents are currently in review at EPA Region 10, and comments are expected back the first of next week. The Proposed Plans for 200-BP-1 and 200-ZP-1 will be issued to the public together. The anticipated date is April 15, 1994.

The Treatability Test Plan for 200-ZP-1 will be issued to the regulators by April 8. Draft A is currently being finalized.

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Two wells have now been identified for extraction (299W-18-1) and reinjection (299W-18-5). Well useability testing is ongoing to identify more wells to provide for any contingency. WHC Geosciences is evaluating wells in the buffer zone identified by the Hanford Future Site Uses Working Group to identify point of compliance wells.

Work is progressing on the pilot scale test with site preparation underway. Groundwater extraction is tentatively scheduled for the end of May, however, a meeting to discuss progress of the pilot scale test will be arranged for mid-April.

- Status 200-BP-5 Operable Unit - Dave Erb provided the status of the 200-BP-5 Operable Unit Treatability Test (see Attachment #5). He indicated the number of groundwater wells will be reduced to 31 and that all of the 200-BP-1 wells are being retained. He noted that groundwater sampling is scheduled to begin in one week and will continue for two weeks. The analytical results are expected back in the mid to late summer timeframe. D. Erb indicated the data quality objectives are in preparation. An activity plan, providing a roadmap to follow after the test, will also be included in the treatability test plan. The activity plan can be prepared as an addendum, a separate chapter, or as an appendix to the treatability test plan.

It was noted that a meeting to define the sitewide approach to groundwater studies is scheduled for April 6 from 10am to 12pm. Operable unit managers agreed to meet after the groundwater strategy meeting concerning the overall groundwater strategy for the 200-BP-5 and 200-ZP-1 operable units. An offline meeting will also be scheduled to discuss the Description of Work for drilling activities.

- ERA Activity - George Henckel provided the status of the carbon tetrachloride extraction activities (see Attachment #6). He indicated that the carbon tetrachloride plume extends below the caliche layer where they are removing about 700 ppm of the contaminant. A total of 1,734 pounds have been extracted from the soils. He noted the plume is moving northwest, from Z-1A toward Z-12, which was not expected. He also noted that characterization work has been completed at Z-9.
- Status 200-UP-1 Operable Unit - Brian Innis provided an update on the field activities for the 200-UP-1 Operable Unit. He indicated the drilling rig was decontaminated and deployed. He noted an unidentified explosive gas was building in one of the well casings and that activity was closed down. An inert gas may be used to purge the casing. He noted that four wells remain to be sampled for groundwater monitoring activities. Two new wells to be done by mid-April, the other two should be done next week. A database search was performed to identify the contaminants in this operable unit, and a table was provided to the regulators of the contaminants currently being monitored. He indicated a need to determine if the data quality objectives are satisfied by the RCRA data.
- Next Meetings: The next meetings are scheduled for April 27 and 28, May 25 and 26, June 29 and 30.

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**Attachment #3**  
**Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units**  
**March 31, 1994**

**Agenda**

200 Area Activities

200-ZP-1 - D. Parker  
\* Status

200-BP-5 - D. Erb

ERA Activity - G. Henckel  
\* Carbon Tetrachloride

200-UP-1 - B. Innis  
\* Activities

2060-5828146

## Attachment #4

**Action Item Status List**  
**Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units**  
**March 31, 1994**

Item No.	Action/Source of Action	Status
2AAMS.9	Provide to Bill Lum any data to compare these slug tests to other tests. Action: Craig Swanson	On 03/22/94 Bill Lum indicated he had no current need for this data. CLOSE 03/31/94.
2AAMS.10	Present to EPA and Ecology the groundwater sampling strategy, and the hydrogeological implications of pump and treat operations at the 200-ZP-1 Operable Unit next Wednesday, March 2, 1994. Action: Dan Parker.	Closed 03/31/94.
2AAMS.11	Provide a schedule for the issuance of an Interim Record of Decision for 200-ZP-1. Action: Dennis Faulk.	Closed 03/31/94. The Proposed Plan goes out for public review by the end of April. the ROD to be issued by July.
2AAMS.12	Within two weeks of receipt, evaluate RL's proposed overall strategy for the 200-ZP-1 Operable Unit, if not acceptable, write a letter with EPA's strategy, indicating all changes EPA will require. Action: Dennis Faulk.	Closed 03/31/94.
2AAMS.13	Transmit the 200-UP-1 and 200-ZP-1 Treatability Test Plans and Mike Connelly's groundwater modeling studies for pump and treat to the regulators. Action: Paul Pak.	Open 03/31/94.
2AAMS.14	Provide to the regulators a map identifying RCRA wells and CERCLA wells for the 200 East and 200 West areas. Action: Paul Pak.	Open 03/31/94.

9413285-0933

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Item No.	Action/Source of Action	Status
2AAMS.15	Submit draft dispositions to regulator comments on the 200-BP-5 Treatability Test Plan by April 6. Action: Paul Pak.	Open 03/31/94.
2AAMS.16	Provide a schedule describing activities that are required prior to initiating pilot scale studies in the 200-BP-5 Operable Unit by August 1994. Action: Dave Erb.	Open 03/31/94.
2AAMS.17	Notify attendees of the time and place for the April 6th meeting to discuss the groundwater strategy for the 200-ZP-1 and 200-BP-5 Operable Units. Action: Paul Pak.	Open 03/31/94.

**200-BP-5 OPERABLE UNIT**

**UNIT MANAGERS MEETING**

**D. B. ERB**

**MARCH 31, 1994**

9403205-0935

## TOPICS

### \* GROUNDWATER MONITORING ACTIVITIES

Task Order and SAF approved and distributed.  
Paperwork in sampling group underway.  
Sampling will start in ~ 1 week.

### \* DQO PREPARATION FOR FUTURE GROUNDWATER MONITORING ACTIVITIES

IRM Plume geometry refinement.  
Treatability test - aquifer impacts & response  
Conceptual model refinement.  
BY Cribs Remedial Action support-assess source impacts on groundwater.  
Point of Compliance.

### \* TREATABILITY TEST STATUS

Comment responses to Plan being prepared.  
Meeting to discuss comment resolutions.  
Activity Plan to respond to work supporting the Treatability Test and post-Treatability Test activities.  
Design drawings nearly complete, some procurement in progress.

9413285-0936

**\* WELL FITNESS-FOR-USE ACTIVITIES**

Letter of Instruction prepared.

Work to start concurrent with groundwater monitoring.

Examine 10 wells-3 at BY Cribs plume & 7 at B-5 Reverse Well plume.

**\* DRILLING DOW**

DOW being prepared by Geosciences.

2 boreholes planned between 699-50-53A and 699-49-55A at ~500-650 ft spacing.

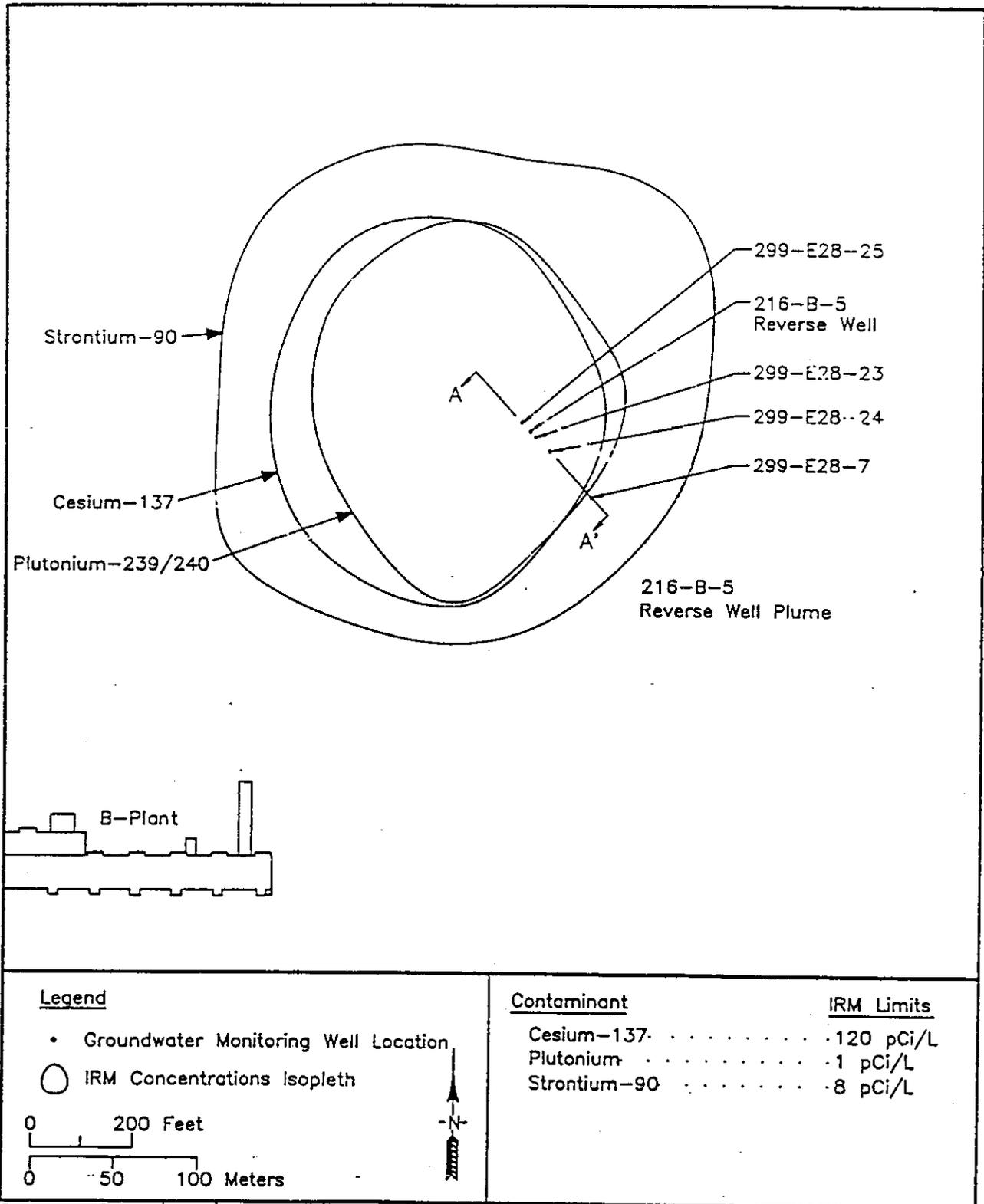
Primary intent of boreholes are to provide location for returning treated groundwater.

Recognize regulatory desire to find extraction well location within both Co-60 and Tc-99 plumes.

Drilling expected to start in mid-late June.

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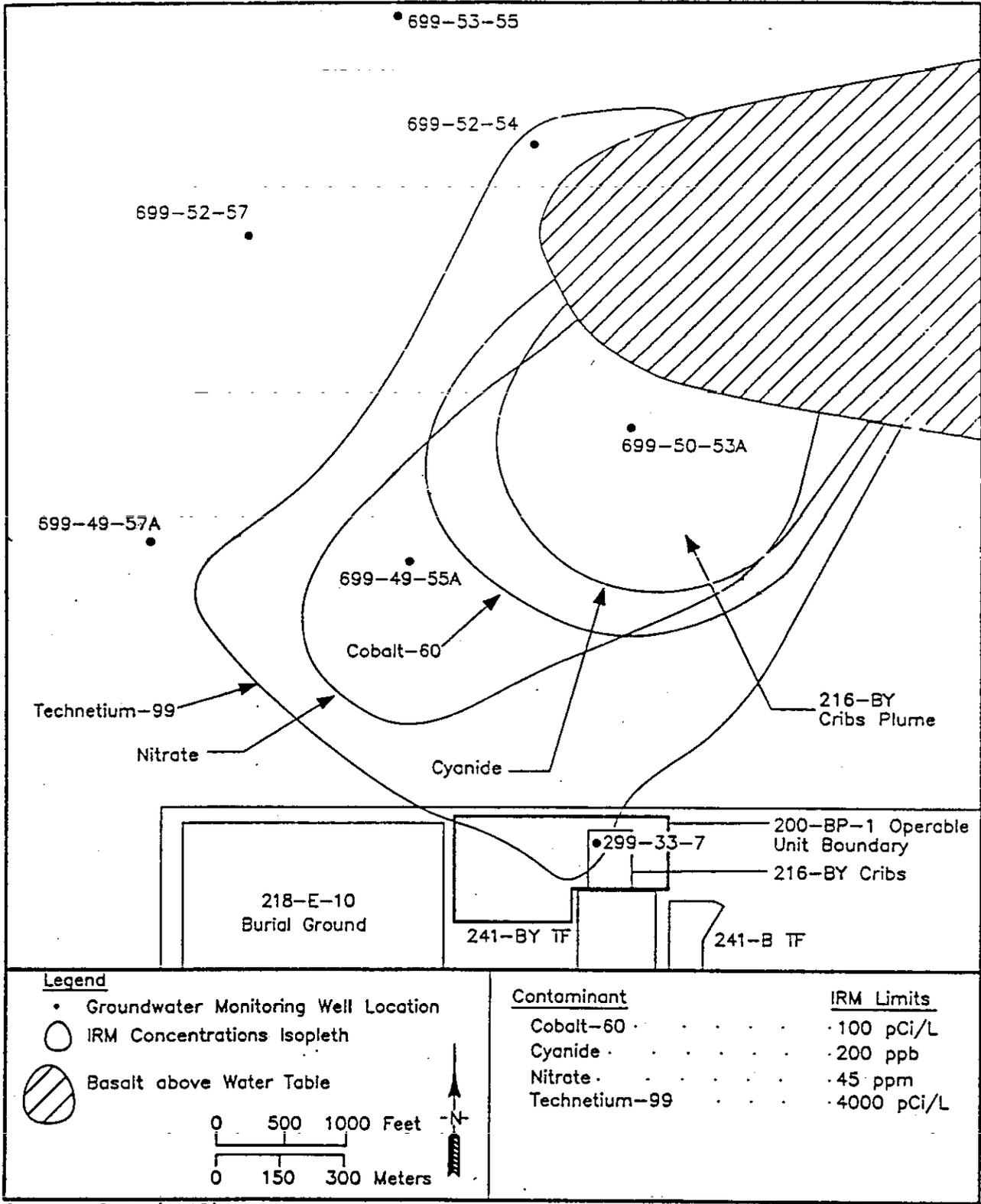
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Source: Ford, (1993)

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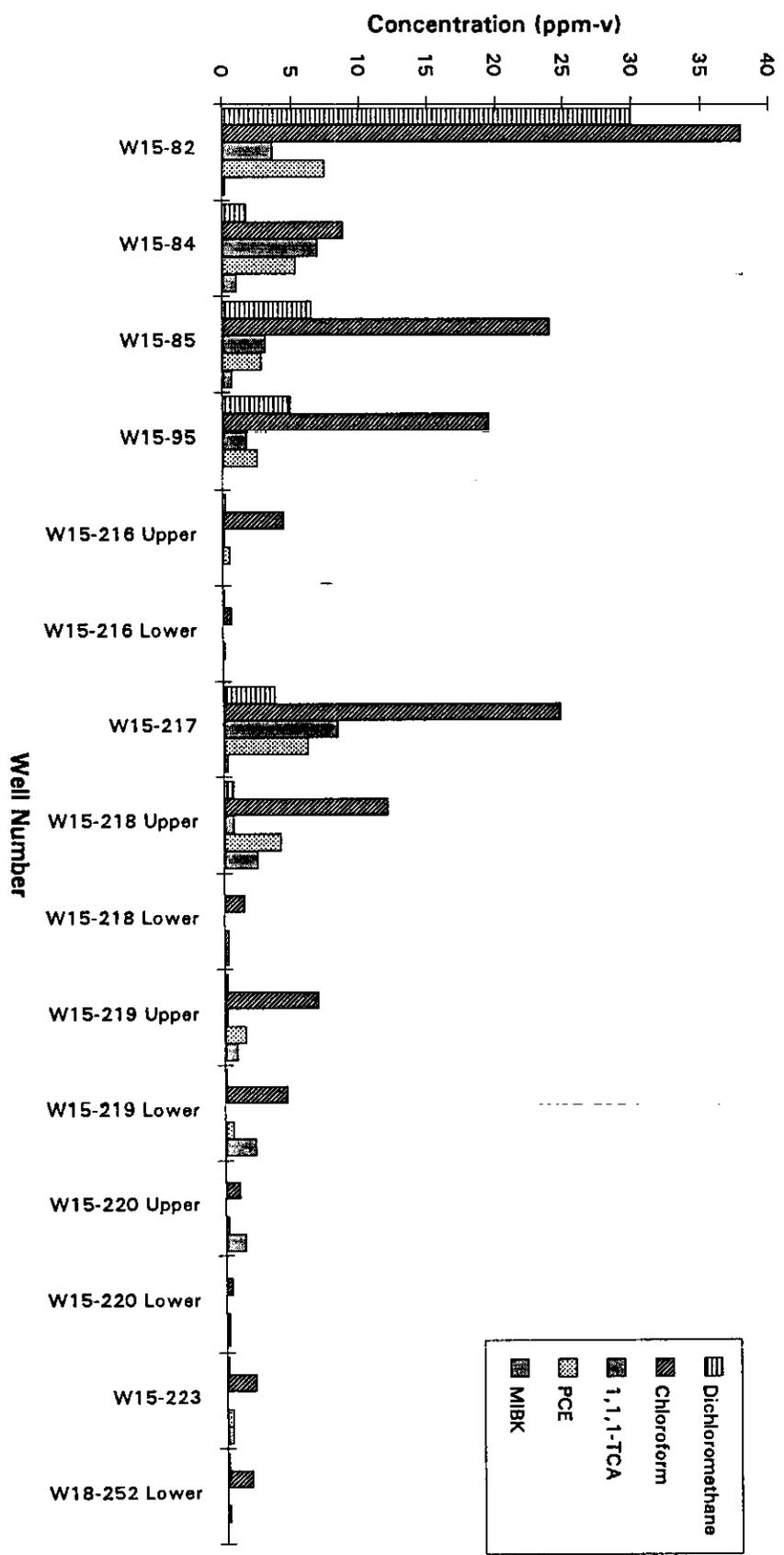
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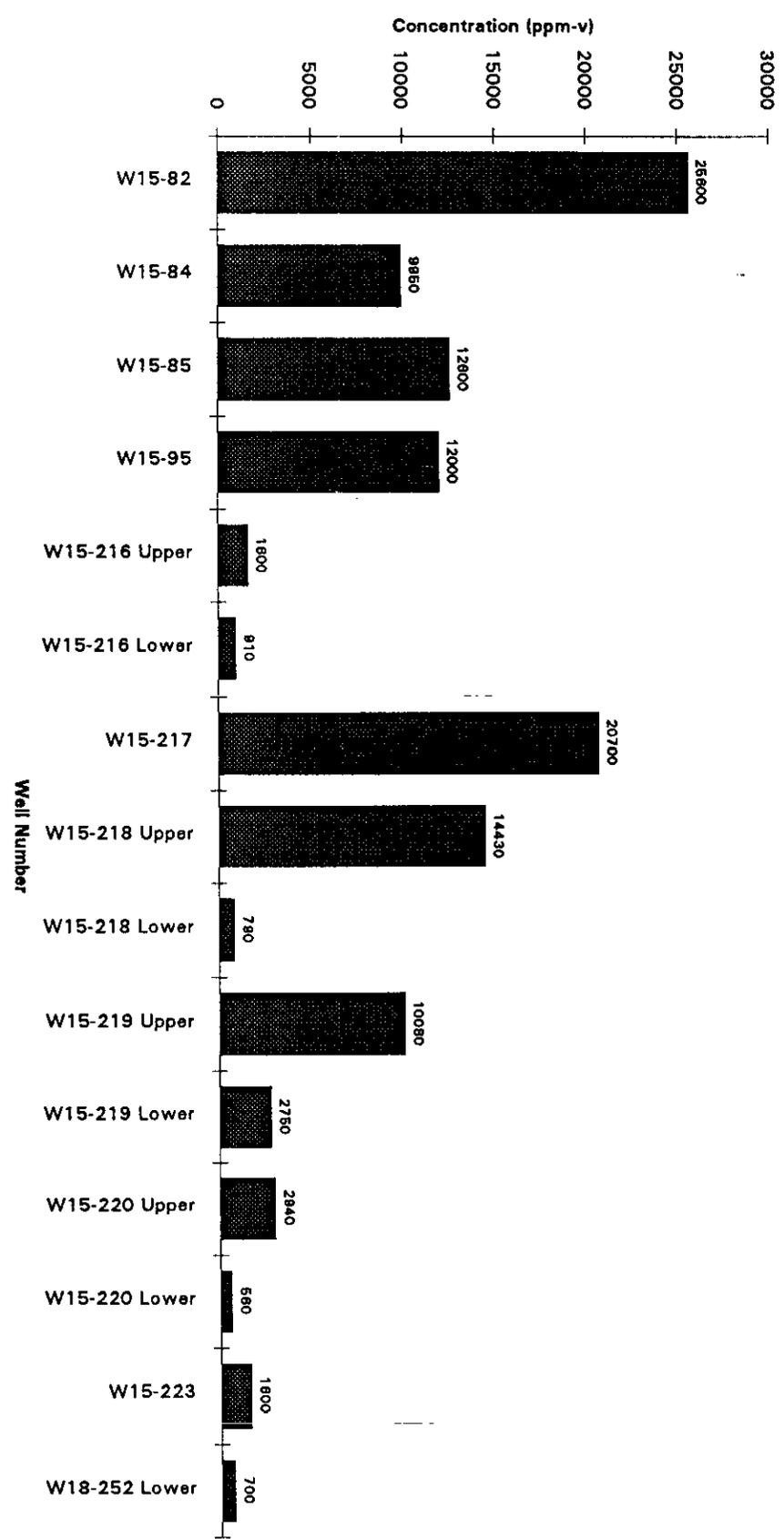
Source: Ford, (1993)

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Maximum VOC Concentrations by Well



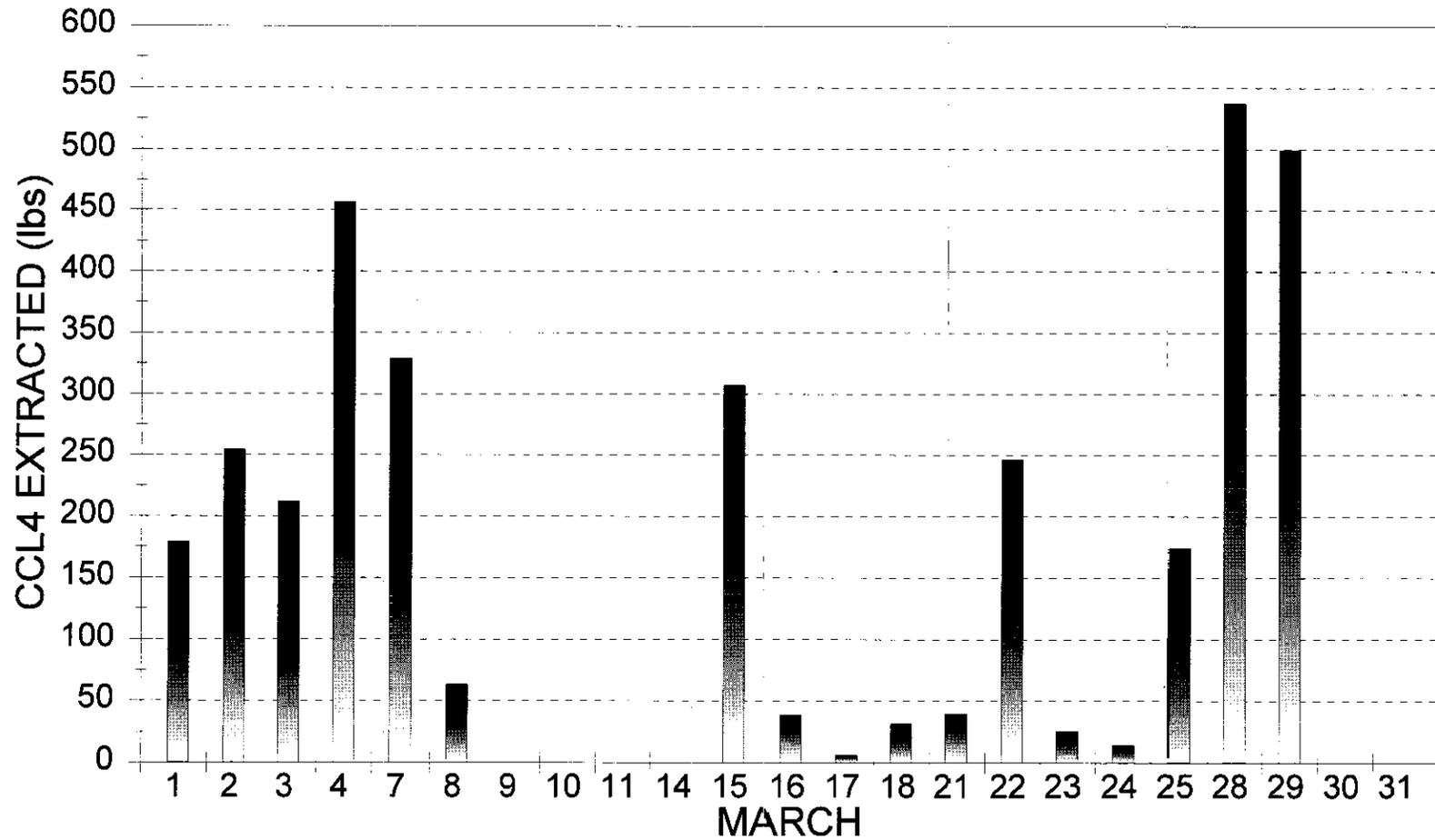
### Maximum CCl4 Concentration by Well



# 1500 CFM VES

## DAILY CCL4 EXTRACTION TOTALS

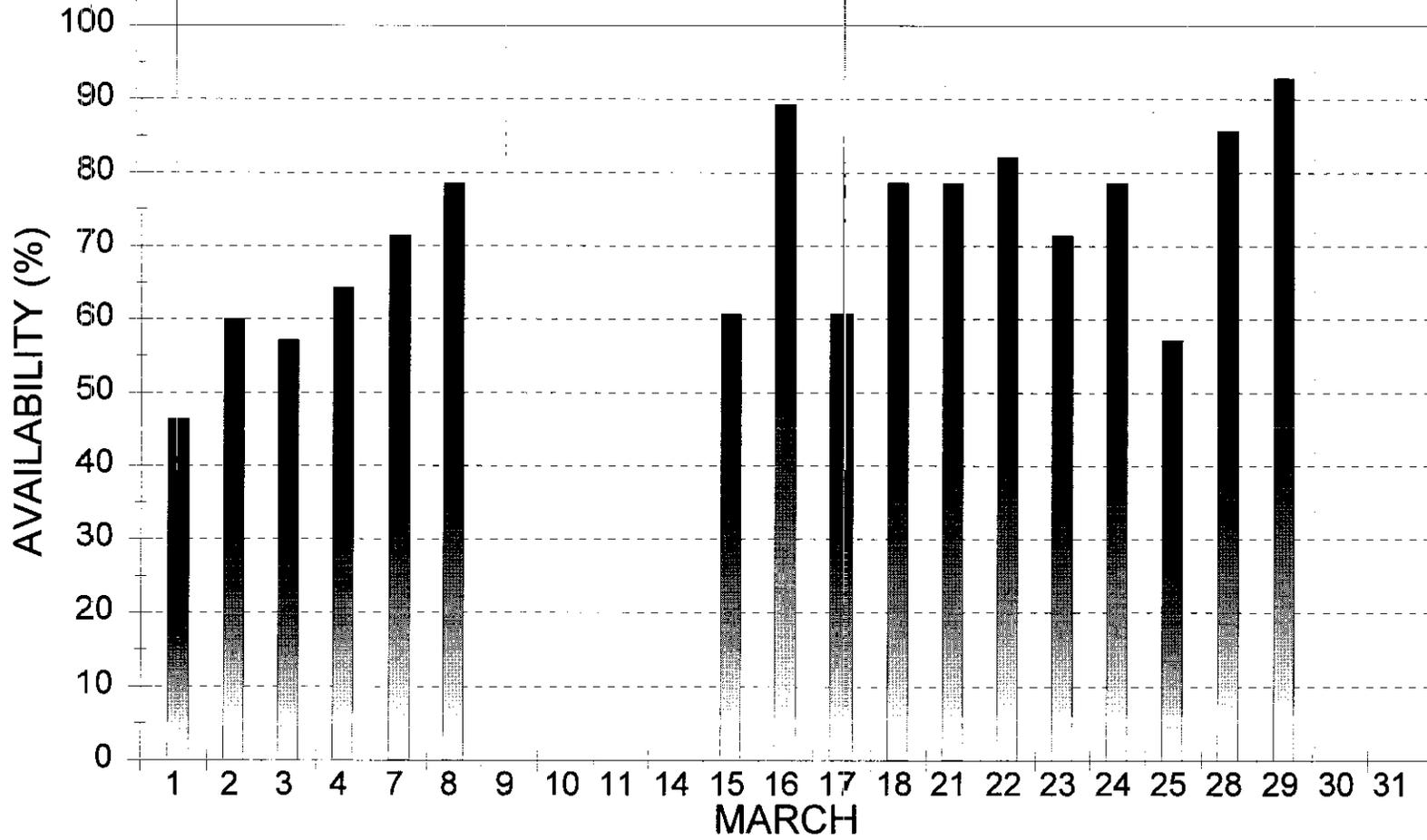
Average Daily CCl4 Extraction = 200 lbs



# 1500 CFM VES

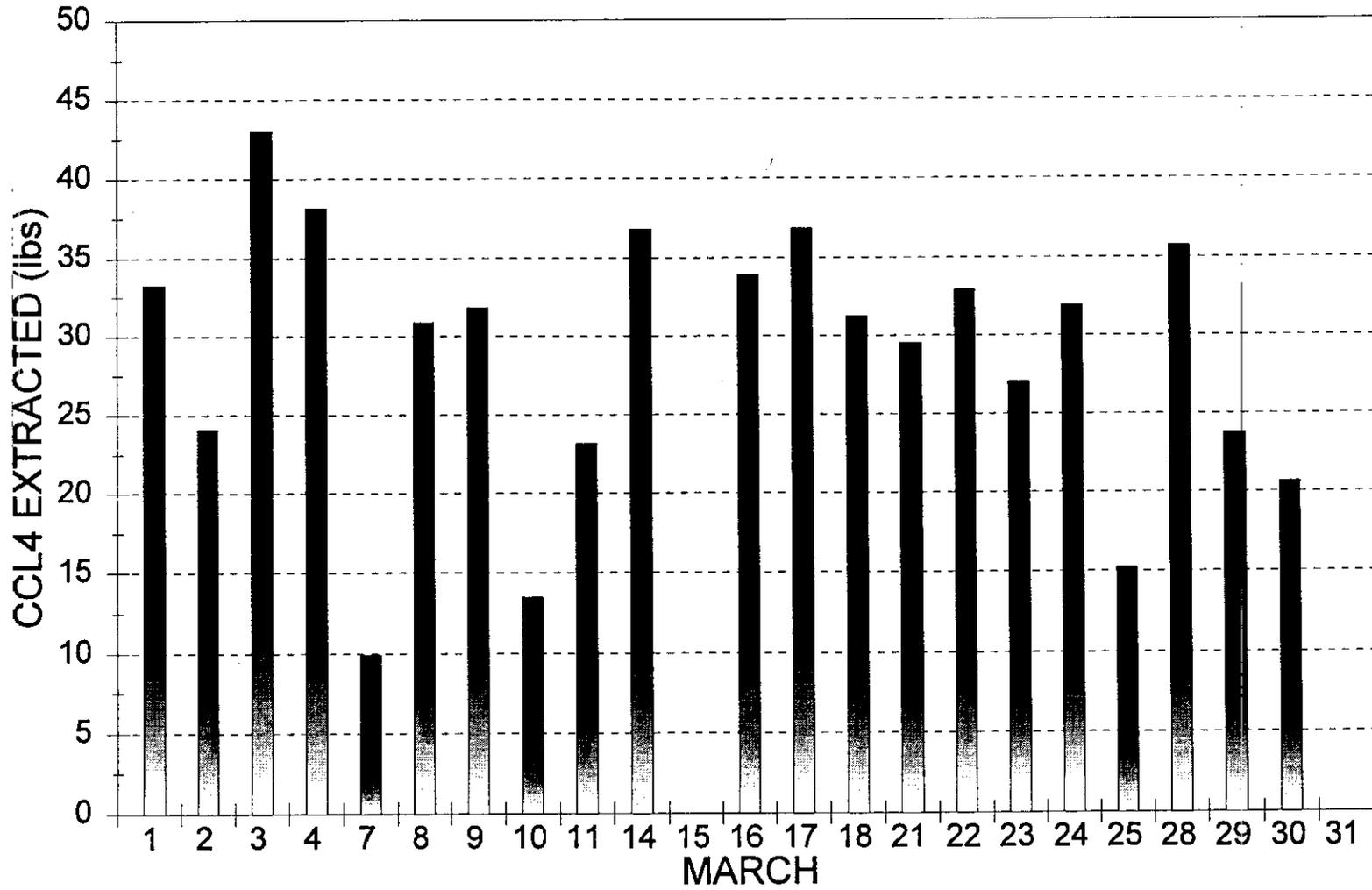
## PERCENT OF DAILY AVAILABILITY

Average Daily Availability = 71.4 %



# 1000 CFM VES DAILY CCL4 EXTRACTION TOTALS

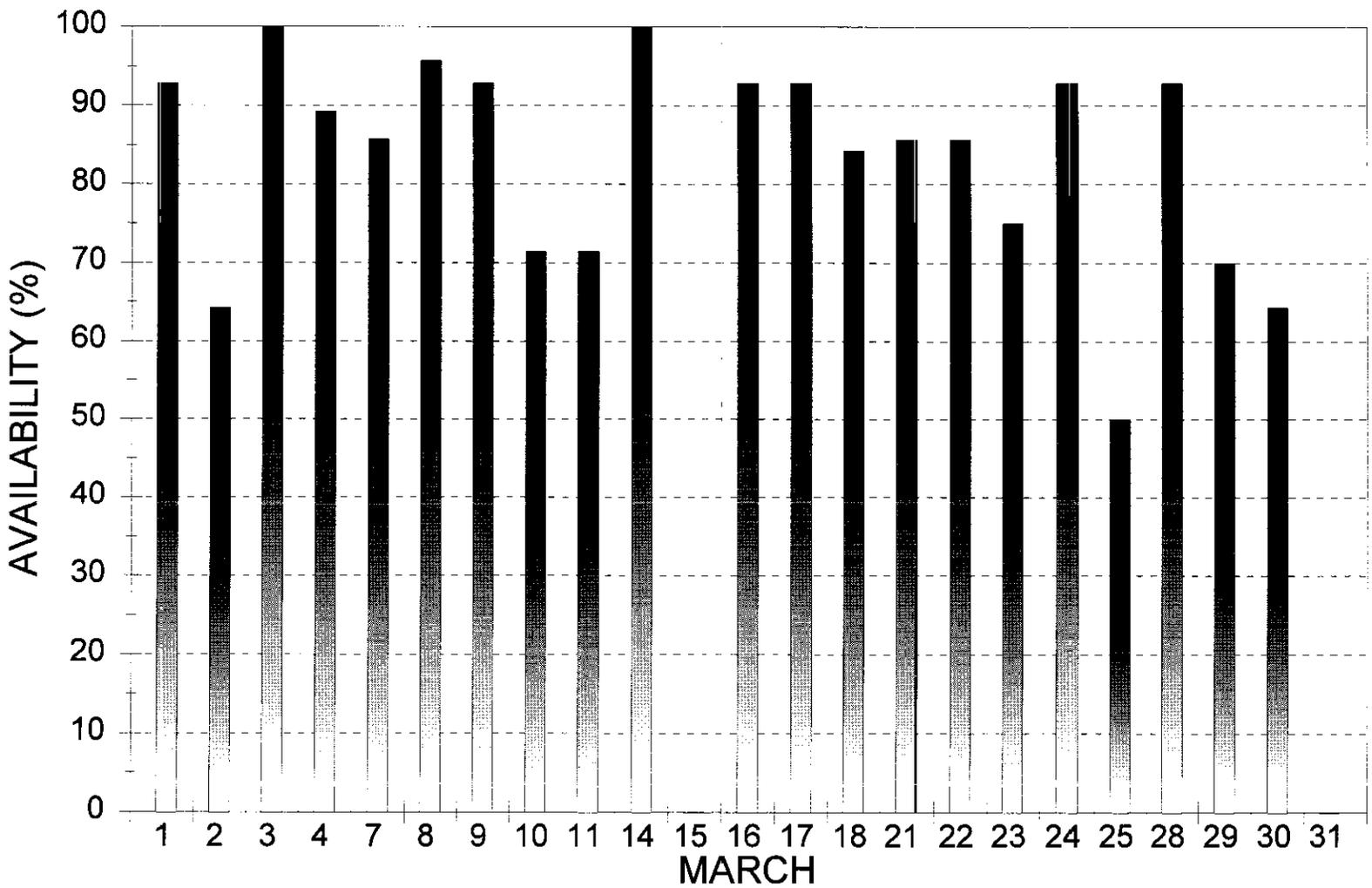
Average Daily Extraction = 28.7 lbs.



# 1000 CFM VES

## PERCENT OF DAILY AVAILABILITY

Average Daily Availability = 83.3 %



Distribution

Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units  
March 31, 1994

Paul Pak . . . . . DOE-RL, ERD (A5-19)  
Diane Clark . . . . . DOE-RL, TSD/SSB (A5-55)  
Mary Harmon . . . . . DOE-HQ (EM-442)

Paul Beaver . . . . . 200 Aggregate Area Manager, EPA (B5-01)  
Brian Drost . . . . . USGS, Support to EPA  
Audree DeAngeles . . . . . PRC, Support to EPA

Dib Goswami . . . . . WDOE (Kennewick)  
Larry Goldstein . . . . . WDOE (Lacey)

Lynn Albin . . . . . Washington Dept. of Health

Curt Wittreich . . . . . WHC (H6-03)  
Mel Adams (Please route to:) . . . . . WHC (H6-01)  
    Rich Carlson . . . . . WHC (H6-03)  
    M.J. Galgoul . . . . . WHC (H6-03)  
L.D. Arnold . . . . . WHC (B2-35)  
Diana Sickle . . . . . WHC (H6-27)  
Chris Widrig (Please route to:) . . . . . PNL (K1-21)  
    Wayne Martin . . . . . PNL (K1-19)  
    Mark Hanson . . . . . PNL (K1-51)  
    Roy Gephart . . . . . PNL (K1-22)  
    Steve Slate . . . . . PNL (K1-19)  
    Joan Keller . . . . . PNL (K1-21)  
    Ben Johnson . . . . . PNL (K1-78)

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Original Sent To: ADMINISTRATIVE RECORD: 200 AAMS Care of EPIC, WHC  
(H6-08)

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Please inform Kay Kimmel (946-3692) of Mactec/Dames & Moore (B1-42) of deletions or additions to the distribution list.

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