

To: Ken Ballard
MS 62355 HTR

12/14/87

WESTINGHOUSE HANFORD COMPANY
RICHLAND, WASHINGTON 99352

Cc: Anttonen
Jett
Lassila
Thompson
Mactee
Cook
Alberquerry
Armstrong

BASALT WASTE ISOLATION PROJECT
"ES" SITE

FAX NUMBER
TELEPHONE (509) 373-1329

VERIFICATION
TELEPHONE (509) 373-1323

| | | | |
|-------|--------------------|-------------------|---------------|
| TO: | <u>A. Lassila</u> | <u>Fed. Bldg.</u> | |
| | NAME | LOCATION | PHONE |
| | | | fax 6-4963 |
| FROM: | <u>L. Burleson</u> | <u>MD-242</u> | <u>3-5363</u> |
| | NAME | LOCATION | PHONE |

NUMBER OF PAGES 12 (excluding coversheet)

DAILY DRILLING STATUS FOR BOREHOLE: DC-24CX

DATE: December 11, 1987 (as of 2400 hours)

CURRENT DEPTH: 2195.00'

24-HOUR FOOTAGE: 59.00'

FORMATION: Ginko (upper flow)

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. Fluid level in the borehole was maintained at 240' to 245' below ground surface.

A survey was taken at 2158.51' indicating a deviation of 3/4°.

DISTRIBUTION:

| | | | | | |
|-------------|-------|------------|---------|-------------|-------|
| TA CURRAN | H9-19 | RT JOHNSON | B9-01 | WH PRICE | H9-20 |
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| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: F. V. Roeck

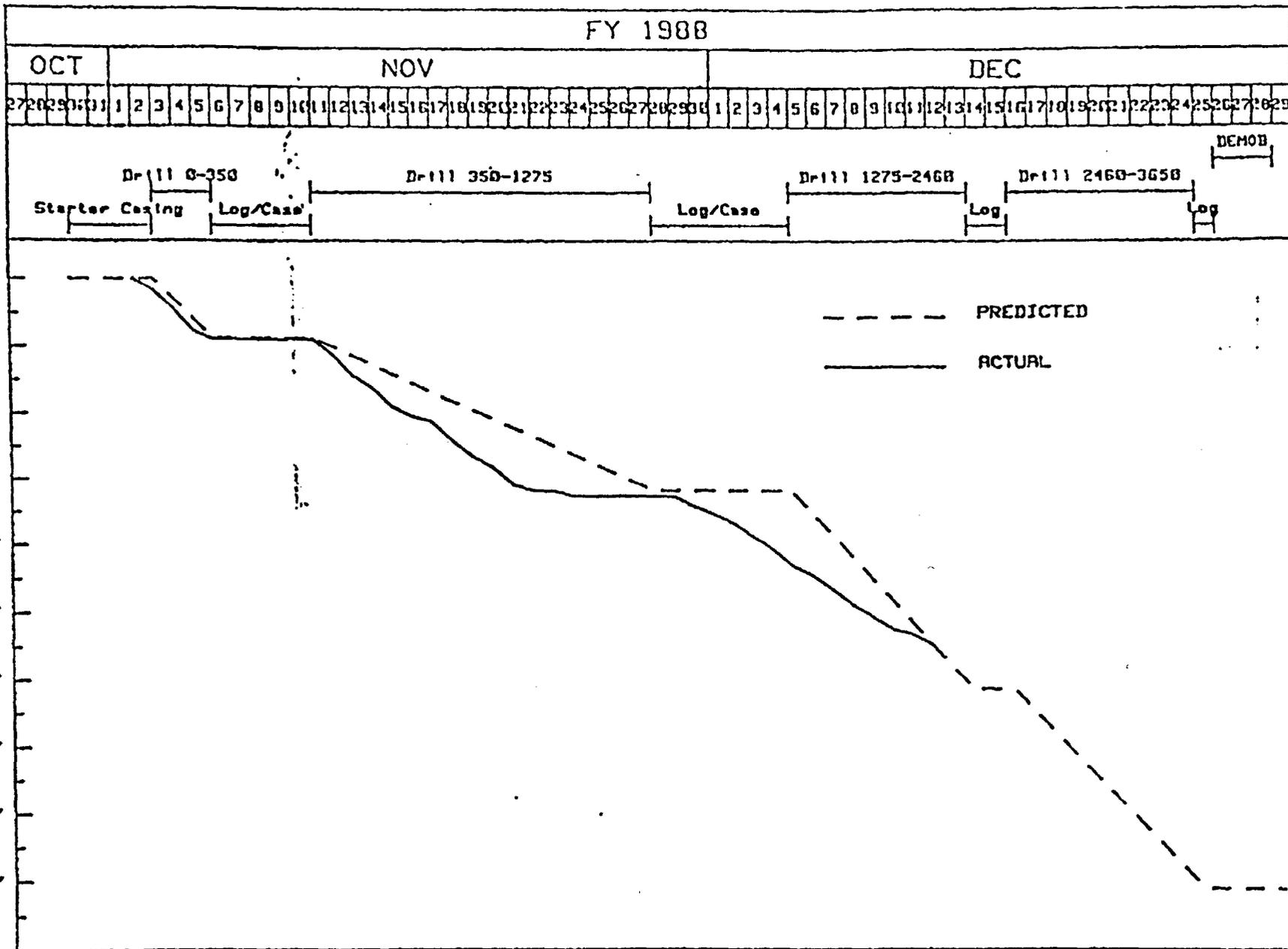
DC-24CX DRILLING SCHEDULE

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NO. 10

PAGE 3



DAILY DRILLING STATUS FOR BOREHOLE: DC-24CX

DATE: December 12, 1987 (as of 2400 hours)

CURRENT DEPTH: 2212.70'

24-HOUR FOOTAGE: 17.70'

FORMATION: Ginko

DESCRIPTION OF ACTIVITIES:

At a depth of 2212.70' the drill string twisted off at the crossover sub between the 10" and the 8" drill collars. Fishing operations commenced immediately with the fish being retrieved on the first run. Magnaflux inspection was performed on all drill collars before running the drill string back in the hole to resume drilling.

The fluid level in the borehole is being maintained between 240' and 250' below ground level.

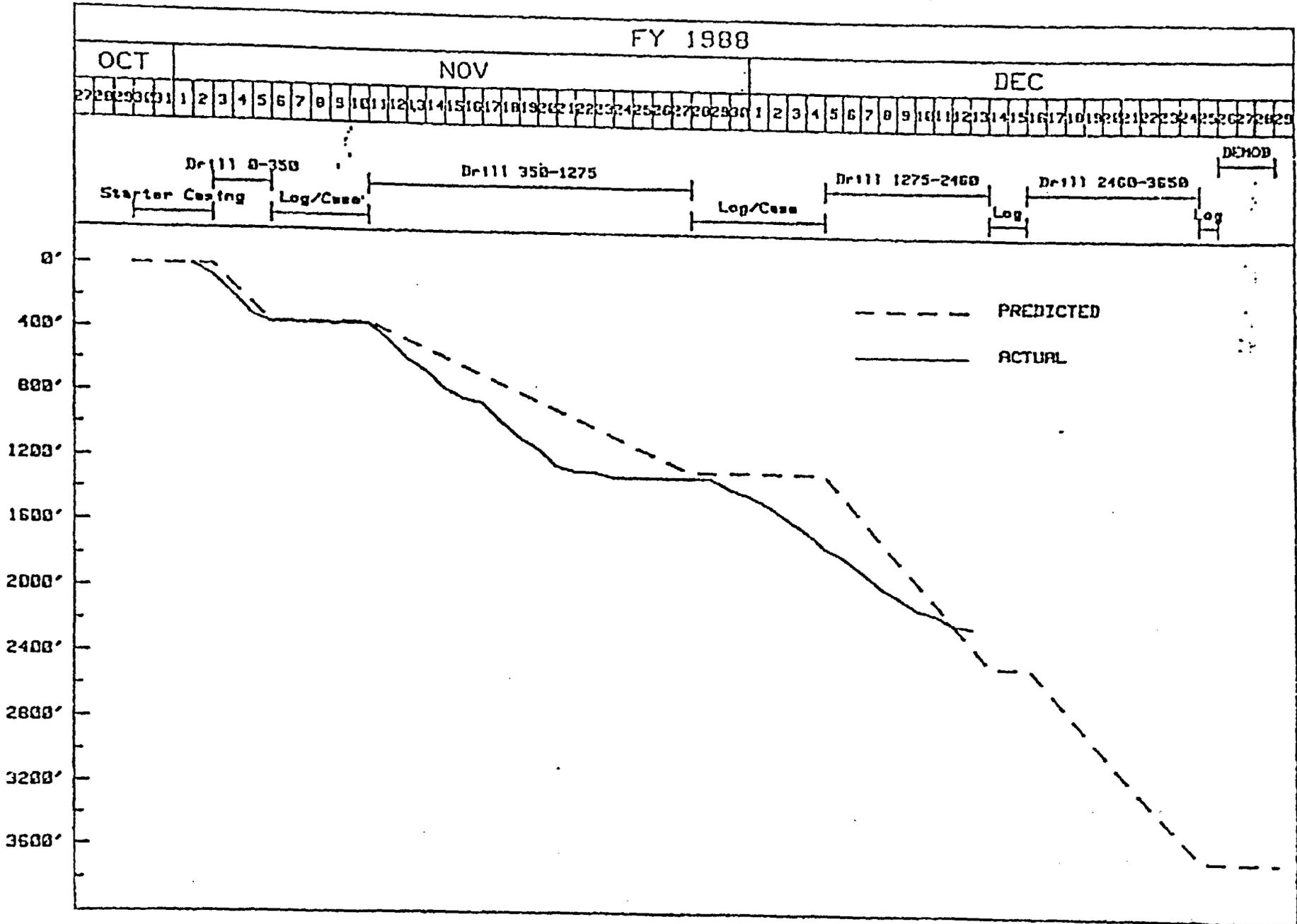
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| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOCLARD | S9-44 |

PREPARED BY: F. V. Roeck

DC-24CX DRILLING SCHEDULE

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DAILY DRILLING STATUS FOR BOREHOLE: DC-24CX

DATE: December 13, 1987 (as of 2400 hours)

CURRENT DEPTH: 2282.00'

24-HOUR FOOTAGE: 69.3'

FORMATION: Ginko

DESCRIPTION OF ACTIVITIES:

Drilling resumed at 0500 hours and progressed with no significant problems. Fluid level in the borehole remained between 240' and 250' below ground surface.

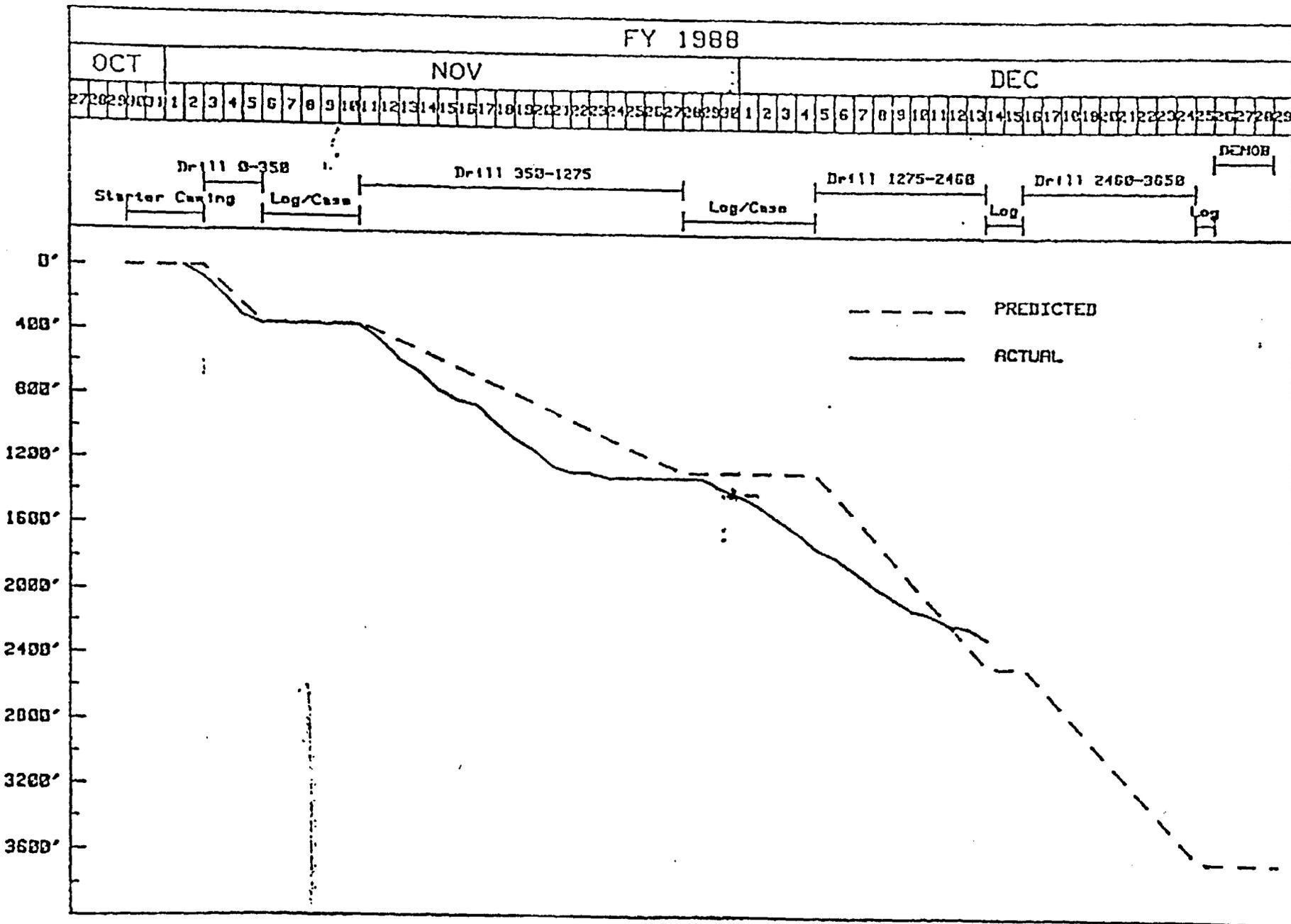
A survey was taken at 2226.81' indicating a deviation of 3/4°.

DISTRIBUTION:

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| TA CURRAN | H9-19 | RT JOHNSON | B9-01 | WH PRICE | H9-20 |
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| NM HUTCHINS | G9-12 | PE LONG | H9-19 | KL TOMAC | H9-20 |
| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: F. V. Roeck

DC-24CX DRILLING SCHEDULE



DAILY DRILLING STATUS FOR BOREHOLE: DC-250A

DATE: December 11, 1987 (as of 2400 hours)

CURRENT DEPTH: 1645.23'

24-HOUR FOOTAGE: -0-

FORMATION: Wanapum Basalt - Lolo Flow

DESCRIPTION OF ACTIVITIES:

The logging operations resumed with the Borehole Compensated Sonic, Gamma Ray, Dual Induction Lateral Caliper, Compensated Neutron Density and the Magnetometer Logs being run. Upon completion of the logging the drill string was tripped to the bottom of the hole and the borehole was circulated to condition the mud and prepare for running casing. At 2000 hours, casing operations commenced. The type casing run was 16" OD, 75#/ft. K55 pipe.

A survey was taken at 1630.0' indicating a 3/4° deviation.

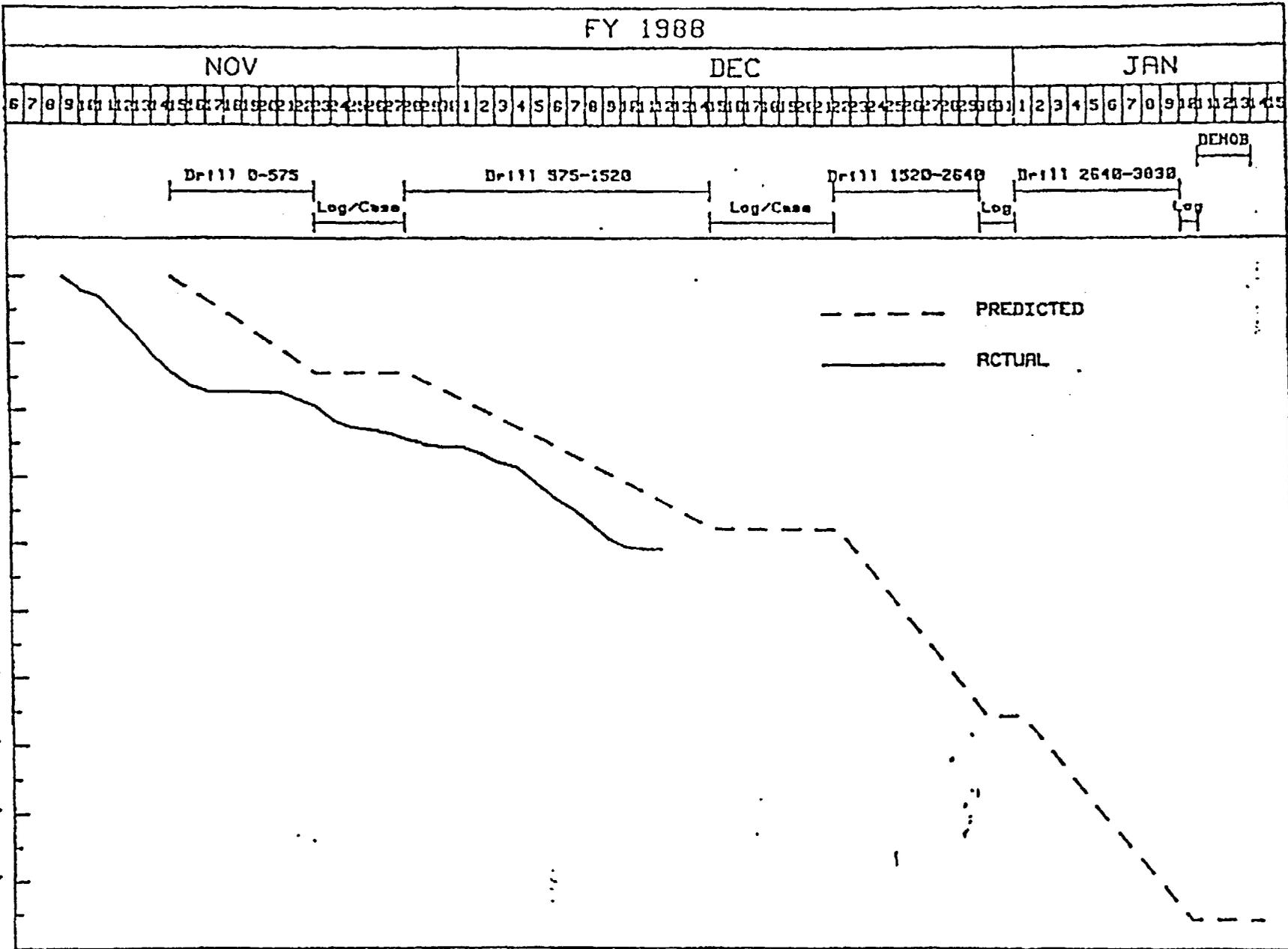
The following verification and hold points were signed off: FI-DC-251, Rev. 0, 6.4.3, 6.4.5.2, 6.4.6, 6.4.7, and 6.4.8.

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| MG GARDNER | S9-44 | AG LASSILA | FED/700 | LC SWANSON | S9-41 |
| NM HUTCHINS | G9-12 | PE LONG | H9-19 | KL TOMAC | H9-20 |
| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: E. A. Henry

DC-25CX DRILLING SCHEDULE



DAILY DRILLING STATUS FOR BOREHOLE: DC-25CX

DATE: December 12, 1987 (as of 2400 hours)

CURRENT DEPTH: 1645.23'

24-HOUR FOOTAGE: -0-1

FORMATION: Wanapum Basalt - Lolo Flow

DESCRIPTION OF ACTIVITIES:

The installation of the 16" OD, 75 #/ft., K55 casing was completed at 0200 hours. The bottom of the hole was tagged at approximately 1645.23'. The casing was raised 1.10' off bottom and secured for cementing at a depth of approximately 1644.13'. The casing was tripped-up and the borehole was circulated for three hours while the mud was conditioned prior to cementing. Following this, the drill string was run into the hole and stabbed into the casing shoe. The hole was circulated for another 1 1/2 hours to condition the drilling fluid and the borehole. Cementing operations commenced at 1045 hours and were completed at 1230 hours. The 24 hour wait on cement period began at 1230 hours. A temperature log was run at 2030 hours to determine top of the cement. Began rig-up operations to convert drilling configuration to air assist reverse circulation method.

The following verification and hold points were signed off: FI-DC-251, Rev. 0, 6.4.4, 6.5.1.1, 25-1.1.4, 25-1.5.3, 25-1.5.4, 25-1.5.5 and 6.5.2.2.

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| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: E. A. Henry

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PAGE 10

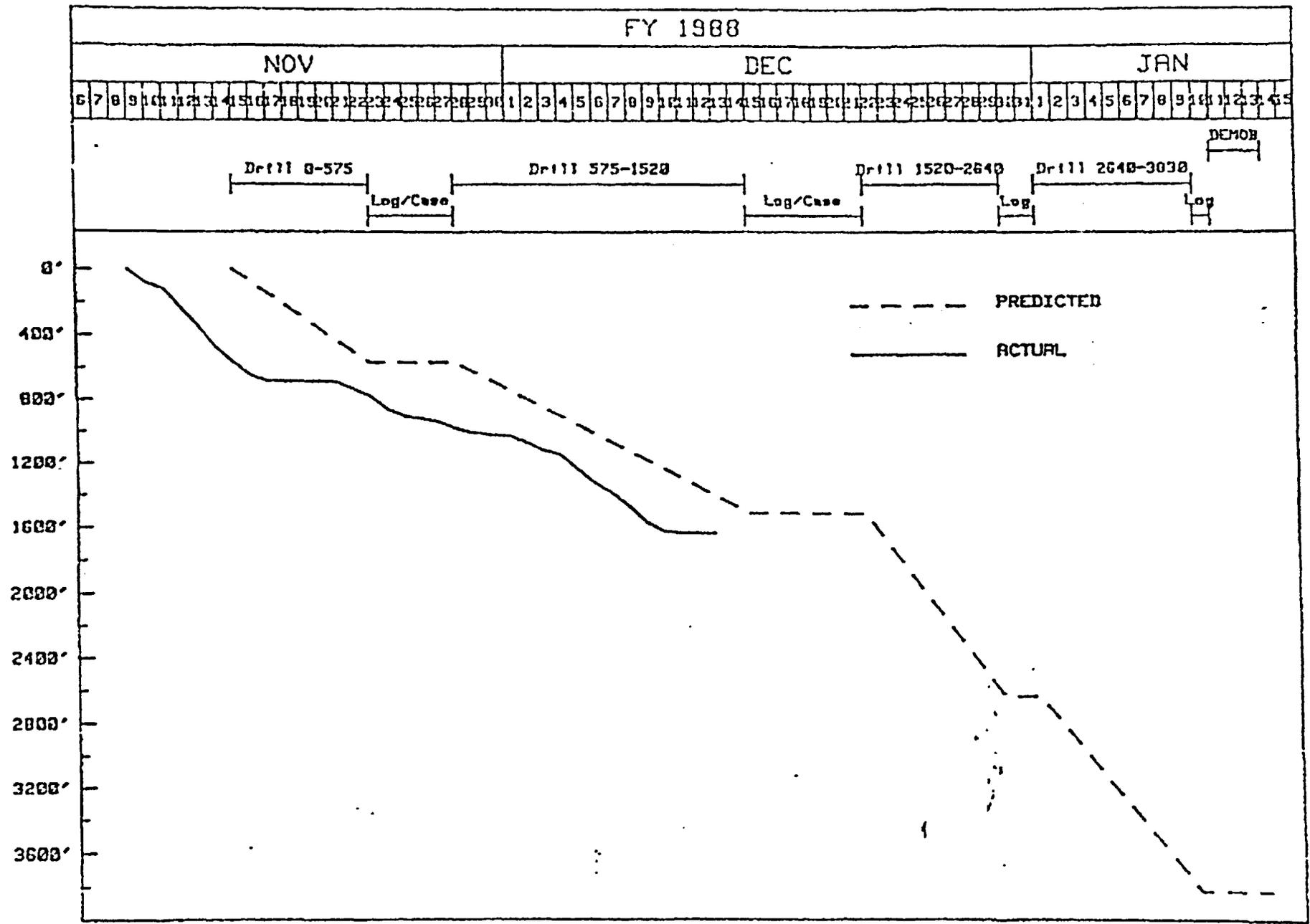
DC-25CX DRILLING SCHEDULE

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DAILY DRILLING STATUS FOR BURENOLE, DC-200A

DATE: December 13, 1987 (as of 2400 hours)

CURRENT DEPTH: 1645.23'

24-HOUR FOOTAGE: -0-

FORMATION: Wanapum Basalt - Lolo Flow

DESCRIPTION OF ACTIVITIES:

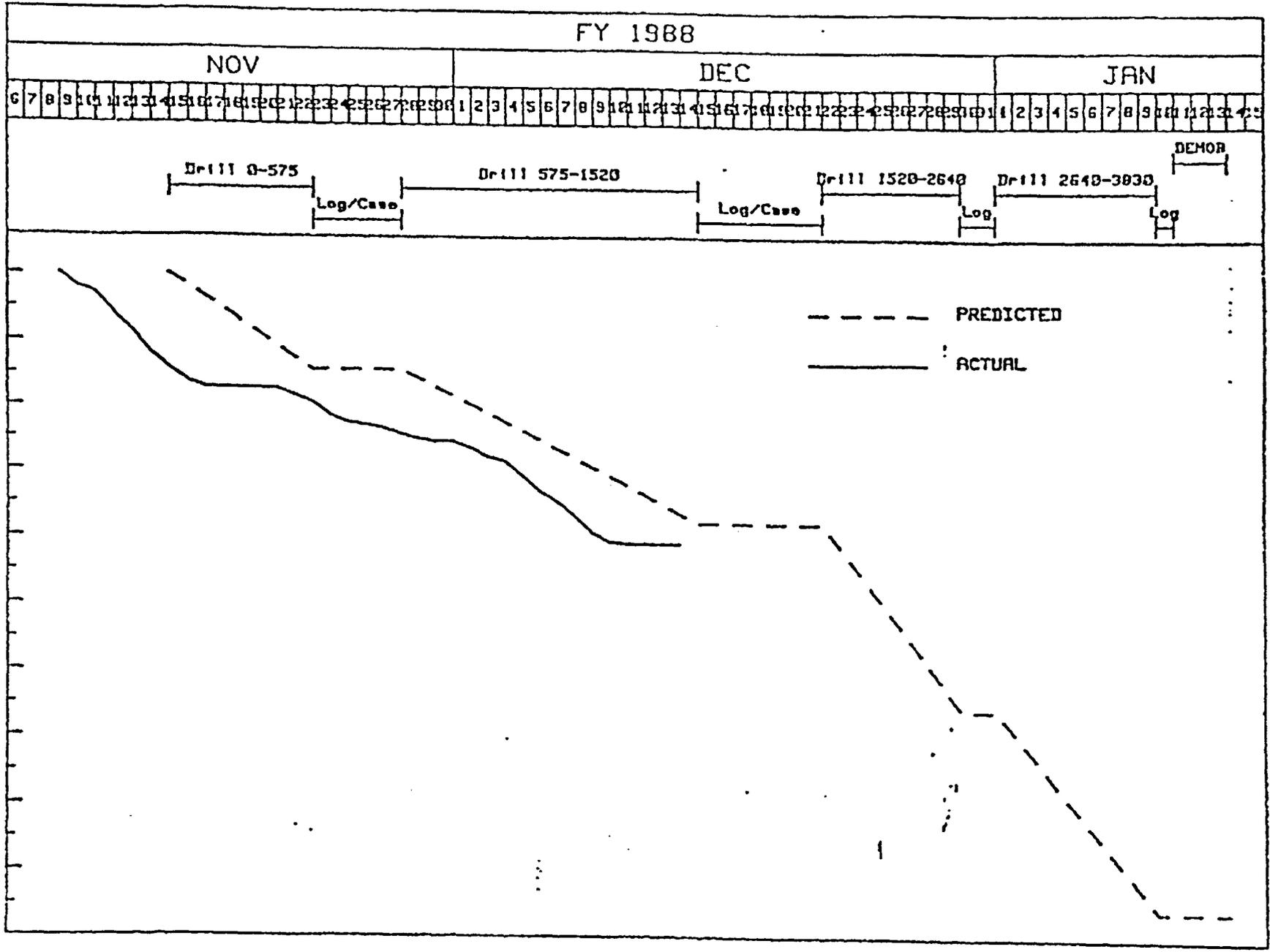
Magnaflux inspection was performed on all the drill collars and cross-over subs. Operations to convert drilling configuration to air assist reverse circulation method progressed. Following the 24 hour wait on cement period, the drill string assembly was run into the hole and drilling of the cement in the casing and of the cement shoe commenced at 1700 hours using the conventional circulation method. Cement was tagged at approximately 13' from casing shoe. The drilling was completed at 2000 hours. At 2300 hours the placement of the RTTS tool began in preparation for the casing shoe test.

DISTRIBUTION:

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| NM HUTCHINS | G9-12 | PE LONG | H9-19 | KL TOMAC | H9-20 |
| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: E. A. Henry

DC-25CX DRILLING SCHEDULE



cc: 12/11/87
 Anttonen
 Szatt
 Lassila
 Thompson
 Mactec
 Cook
 Alleygreen
 Armstrong

WESTINGHOUSE HANFORD COMPANY
 RICHLAND, WASHINGTON 99352

BASALT WASTE ISOLATION PROJECT
 "ES" SITE

FAX NUMBER
 TELEPHONE (509) 373-1329

VERIFICATION
 TELEPHONE (509) 373-1323

| | | | |
|-------|--------------------|-------------------|---------------|
| TO: | <u>A. Lassila</u> | <u>Fed. Bldg.</u> | <u>PHONE</u> |
| | NAME | LOCATION | fax 6-4963 |
| FROM: | <u>L. Burleson</u> | <u>MD-242</u> | <u>3-5363</u> |
| | NAME | LOCATION | PHONE |

NUMBER OF PAGES 4 (excluding coversheet)

DATE: December 10, 1987 (as of 2400 hours)

CURRENT DEPTH: 2136.0'

24-HOUR FOOTAGE: 33.0'

FORMATION: Frenchman Springs, Silver Falls Flow

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. The fluid level in the borehole is being maintained at approximately 250' below ground level.

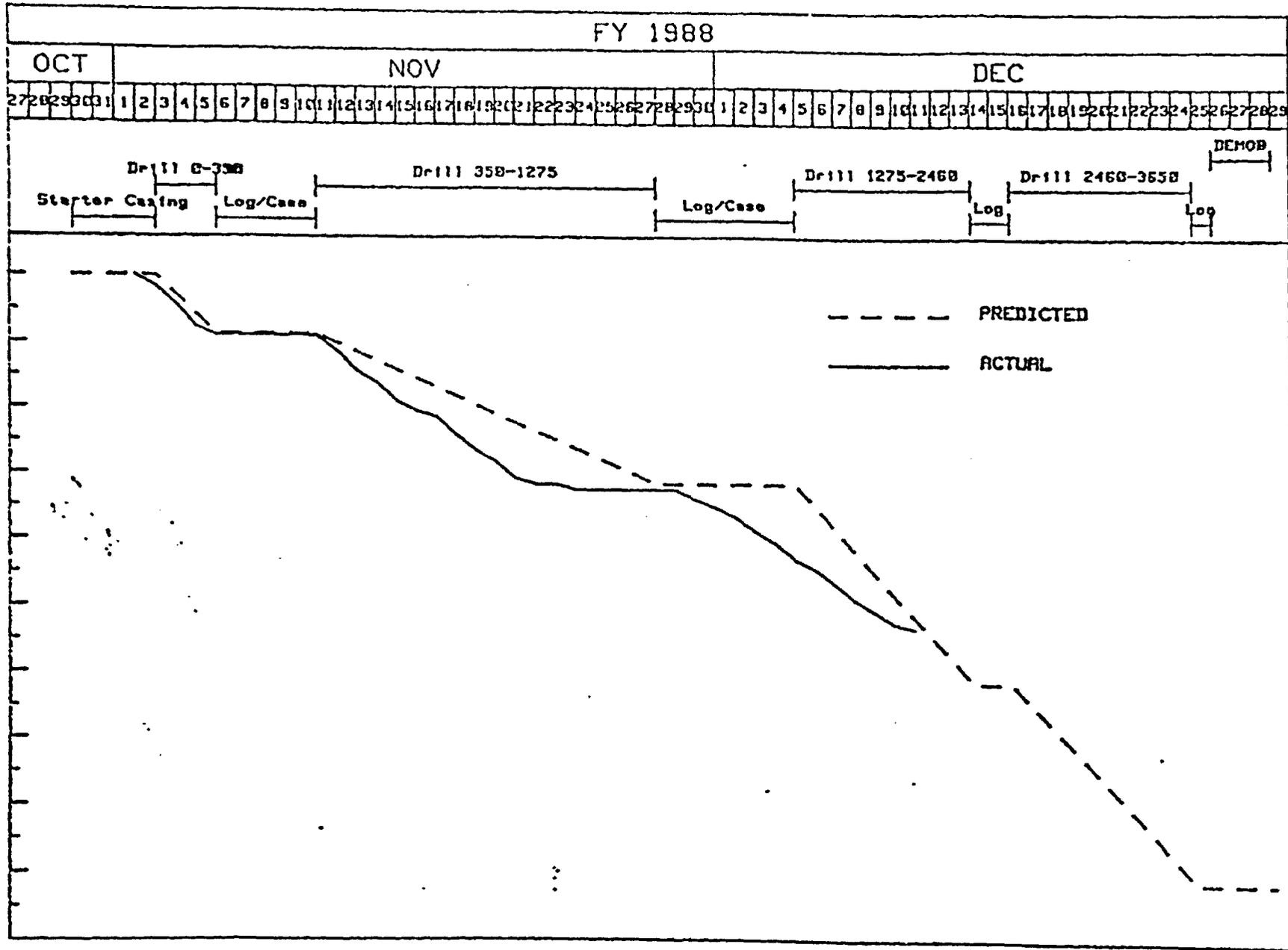
A survey was taken at 2097.0' indicating a 1° deviation.

DISTRIBUTION:

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| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: R. L. Ryder

DC-24CX DRILLING SCHEDULE



DAILY DRILLING STATUS FOR BOREHOLE: DC-250X

DATE: December 10, 1987 (as of 2400 hours)

CURRENT DEPTH: 1645.23'

24-HOUR FOOTAGE: 10.61'

FORMATION: Lolo Flow of the Wanapum Basalt

DESCRIPTION OF ACTIVITIES:

Logging operations continued with the running of a Borehole Compensated Sonic Log, Borehole Caliper Log, and Cement Bond Log. Drilling resumed at approximately 1130 hours with the borehole depth being advanced to 1645.23'. The drill string was pulled from the hole and the shock sub was removed and replaced with a 3-point reamer. The drill string was tripped back in the hole and reamed to bottom. The borehole was circulated for two hours prior to tripping the drill string out of the hole to complete the logging operation.

DISTRIBUTION:

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| TA CURRAN | H9-19 | RT JOHNSON | B9-01 | WH PRICE | H9-20 |
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| MG GARDNER | S9-44 | AG LASSILA | FED/700 | LC SWANSON | S9-41 |
| NM HUTCHINS | G9-12 | PE LONG | H9-19 | KL TOMAC | H9-20 |
| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: J. A. Bultena

DC-25CX DRILLING SCHEDULE

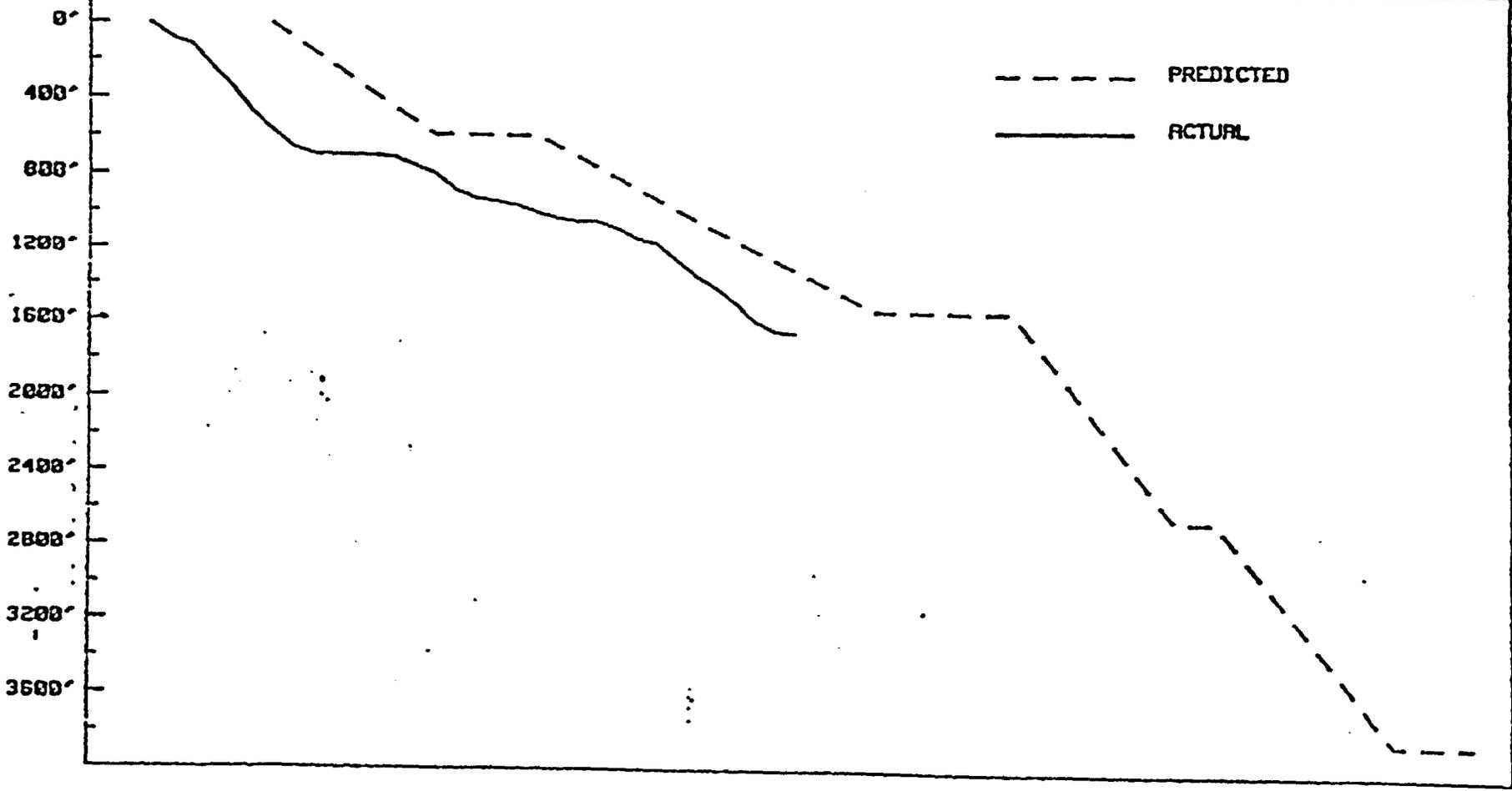
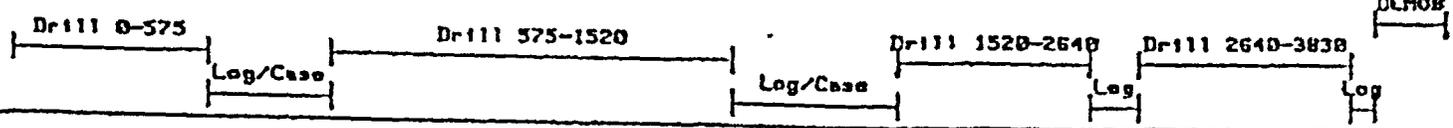
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WESTINGHOUSE HANFORD COMPANY
RICHLAND, WASHINGTON 99352

BASALT WASTE ISOLATION PROJECT
"ES" SITE

FAX NUMBER
TELEPHONE (509) 373-1329

VERIFICATION
TELEPHONE (509) 373-1323

12/10/87

Cc: Anttonen
Iyret
Lassila
Thompson
Concut
Calki
Alkermey
Armstrong

| | | | |
|-------|--------------------|-------------------|---------------|
| TO: | <u>A. Lassila</u> | <u>Fed. Bldg.</u> | |
| | NAME | LOCATION | PHONE |
| | | | fax 6-4963 |
| FROM: | <u>L. Burleson</u> | <u>MD-242</u> | <u>3-5363</u> |
| | NAME | LOCATION | PHONE |

NUMBER OF PAGES 4 (excluding coversheet)

DAILY DRILLING STATUS FOR BOREHOLE: DC-24CX

DATE: December 9, 1987 (as of 2400 hours)

CURRENT DEPTH: 2103.0'

24-HOUR FOOTAGE: 72.0'

FORMATION: Frenchman Springs, Silver Falls Flow

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. Fluid level in the borehole is being maintained at approximately 250' below ground level.

A survey was taken at 2037' indicating a 3/4° deviation.

DISTRIBUTION:

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| NM HUTCHINS | G9-12 | PE LONG | H9-19 | KL TOMAC | H9-20 |
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| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: R. L. Ryder

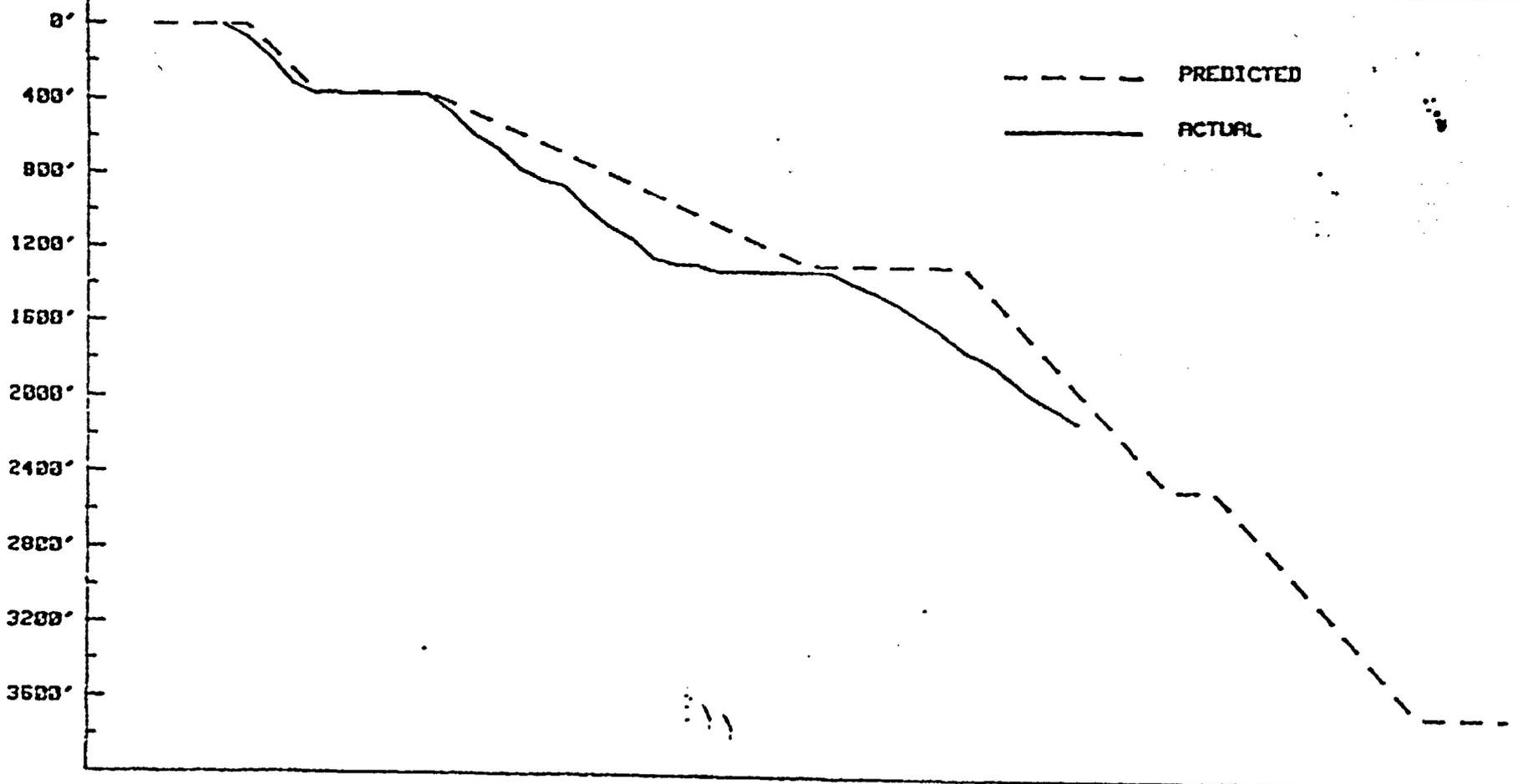
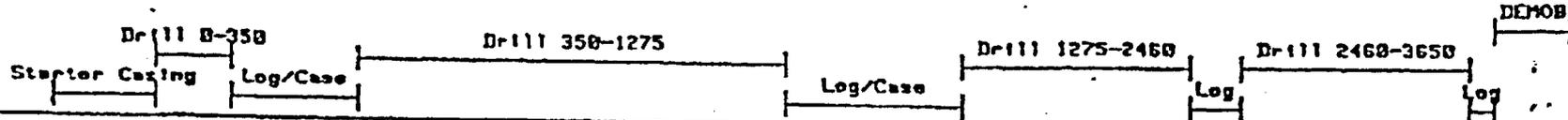
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DC-24CX DRILLING SCHEDULE

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(THU) 12.10.87 11:10

DAILY DRILLING STATUS FOR BOREHOLE: DC-25CX

DATE: December 9, 1987 (as of 2400 hours)

CURRENT DEPTH: 1634.62'

24-HOUR FOOTAGE: 56.72'

FORMATION: Mabton Interbed, Lolo Flow of the Priest Rapids Member of the Wanapum Basalt

DESCRIPTION OF ACTIVITIES:

Drilling progressed to a depth of 1634.62' with no significant problems. It was determined that the top of the Lolo had been penetrated at 1582'. Approximately 52' was drilled into the Lolo to establish casing point. The hole was circulated for two hours before pulling the drill string from the hole. Logging operations began at 2330 hours with the running of the Borehole Compensated Sonic log.

A survey was run at 1560.12' indicating a 1/2° deviation and at 1623.43' indicating a 3/4° deviation.

NOTE: The Borehole Compensated Sonic Log indicated the rock quality was not suitable to set casing, therefore the borehole depth will be extended to establish a suitable casing point.

DISTRIBUTION:

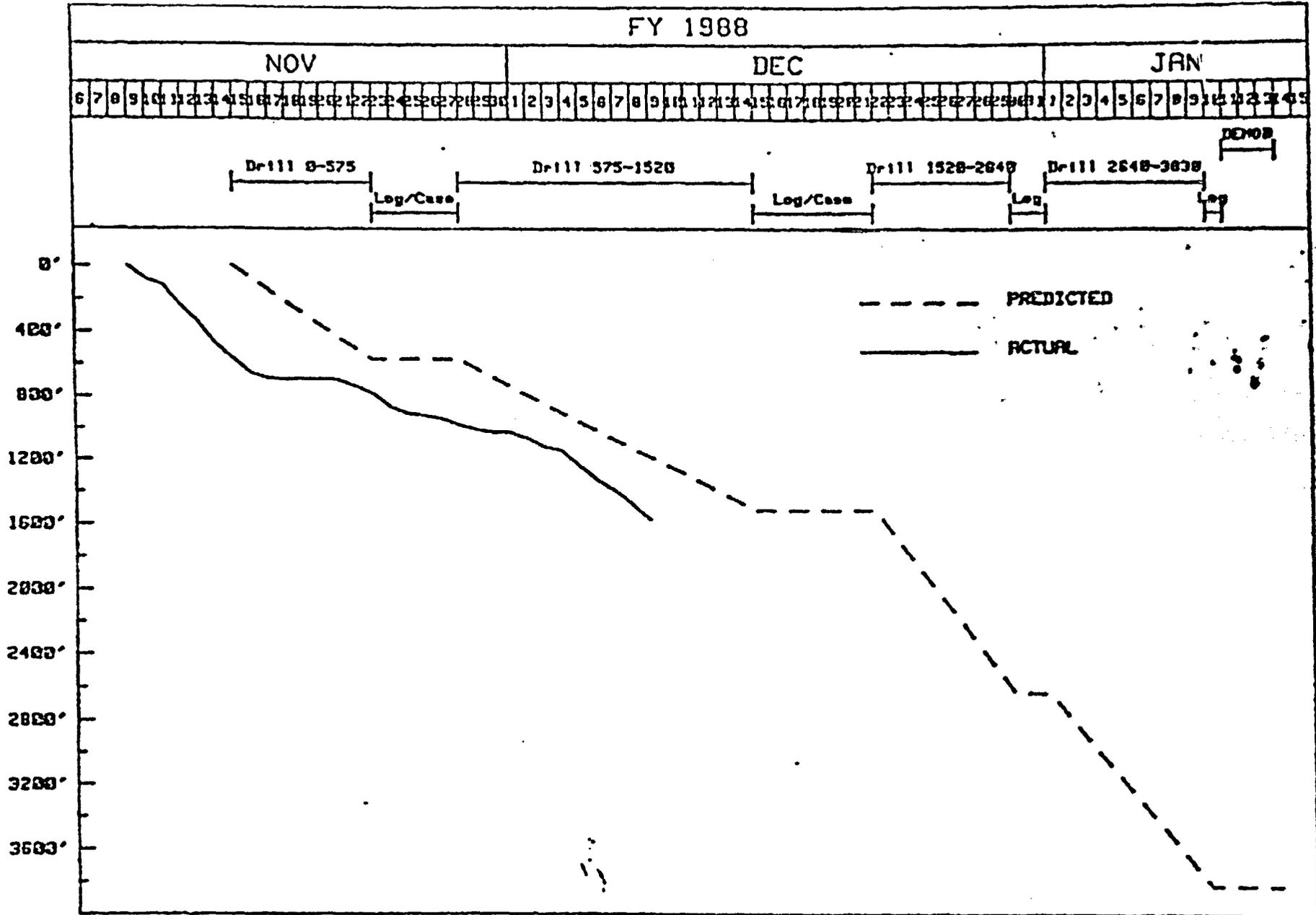
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| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: J. P. Mollusky

25 BHP 23 218

DC-25CX DRILLING SCHEDULE

ON DRIP ES 5116



SIMPLIFIED BY [unclear]



Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

87-LES-193

DEC 9 1987

Those on Attached List

Ladies and Gentlemen:

PRELIMINARY SCP WORKSHOP REVIEW

This letter is to confirm that the subject planning session will be held on Tuesday, December 15, 1987, as discussed with the affected parties during this week by Mr. J. E. Mecca of my staff. The meeting will start at 1:30 p.m. in the conference room on the ground floor of the WHC CDC-2 Building.

Subjects to be discussed include BWI's interpretation and tentative response to the letters received regarding the pending SCP consultation interactions to be further discussed at the Plenary Meeting on January 27-28, 1988, the understood focus of the January 27-28 meeting, and the schedule and content for the workshops to be held during February and March 1988.

If you have any questions regarding this working session, please contact Mr. Mecca on (509) 376-5038 or Mr. J. M. Kovacs on (509) 376-1291.

We appreciate your spirit of cooperation in this effort, and are looking forward to the December 15 session.

Sincerely,

A handwritten signature in black ink, appearing to read "R. D. Izatt".

R. D. Izatt, Director
Basalt Waste Isolation Division

BWI:JEM

Attachment: Mailing List

CORRESPONDENCE MAILING LIST

Mr. John J. Linehan, Acting Chief
Operations Branch
Division of High-Level Waste Management
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. Terry Husseman, Program Director
Office of High-Level Waste Management
Washington State Department of
Ecology, MS PV-11
Olympia, WA 98504

Mr. Donald Provost
Washington State Department
of Ecology, MS PV-11
Olympia, WA 98504

Mr. Russell Jim, Manager
Nuclear Waste Program
Yakima Indian Nation
P. O. Box 151
Toppenish, WA 98948

Mr. William Burke, Director
Nuclear Waste Study Program
Confederated Tribes of the
Umatilla Indian Reservation
P. O. Box 638
Pendleton, OR 97801

Mr. Ronald Halfmoon, Program Manager
Nuclear Waste Program
Nez Perce Tribe
Box 305
Lapwai, ID 83540

Mr. F. R. Cook, On-Site Representative
U. S. Nuclear Regulatory Commission
1955 Jadwin
Richland, WA 99352

Dr. Abdul Alkezweeny
Tribal On-Site Representative
1933 Jadwin, Suite 135
Richland, WA 99352

Ms. Mary Lou Blazek
Hanford Program Coordinator
Siting and Regulation Division
Oregon Department of Energy
625 Marion Street NE
Salem, OR 97310

Mr. Dan Silver
Institute for Public Policy
Science and Technology Project
3164 Seminar Building
The Evergreen State College
Olympia, WA 98505

Mr. William Hanson
General Accounting Office
P. O. Box 321
Richland, WA 99352

Stephen H. Kale
Associate Director for
Geologic Repositories
Office of Civilian Radioactive
Waste Management, HQ

James P. Knight, Director
Siting, Licensing, and
Quality Assurance Division
Office of Civilian Radioactive
Waste Management, HQ

Ralph Stein, Director
Engineering and Geotechnology
Division
Office of Civilian Radioactive
Waste Management, HQ



Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

87-AMC-996

DEC 09 1987

Those on Attached List

Ladies and Gentlemen:

INSTITUTIONAL/SOCIOECONOMIC COORDINATING GROUP ROSTER UPDATE

The roster and mailing list for the U. S. Department of Energy's Institutional/Socioeconomic Coordinating Group (ISCG) now numbers 207 and DOE Headquarters would like to update that distribution list.

Considering the effort required to send reference packages, correspondence, and other materials to a list this long, prudent planning and budgeting would suggest that materials not be sent to every individual who has attended a meeting, which is now the case. Updating is intended to ensure the list is accurate and to identify appropriate additions and deletions. Updating of the roster is not intended to limit attendance at ISCG meetings.

I am requesting that you review your organization's portion of the attached ISCG roster, including updating and identifying your contractors, and submit a marked-up copy to Mr. Max Powell of my staff by January 8, 1988.

Sincerely,



John H. Anttonen, Assistant Manager
for Commercial Nuclear Waste

AMC:MLP

Attachment:
ISCG Roster

cc w/o att:
S. Kale, DOE-HQ
J. Knight, DOE-HQ
R. Stein, DOE-HQ

Addressees - Letter dated DEC 09 1987

- A. Alkezweeny, Tribal On-Site Representative
- M. Blazek, Oregon Department of Energy
- W. Burke, CTUIR
- F. R. Cook, NRC On-Site Representative
- R. Halfmoon, Nez Perce
- T. Husseman, State of Washington
- R. Jim, YIN
- R. Kelso, GAO
- J. Linehan, NRC-HQ
- D. Provost, State of Washington
- D. Silver, WSIPP

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11/30/87

12/9/87

cc: Antloun
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RICHLAND, WASHINGTON 99352

BASALT WASTE ISOLATION PROJECT
"ES" SITE

FAX NUMBER
TELEPHONE (509) 373-1329

VERIFICATION
TELEPHONE (509) 373-1323

| | | | |
|-------|--------------------|-------------------|---------------|
| TO: | <u>A. Lassila</u> | <u>Fed. Bldg.</u> | <u>PHONE</u> |
| | NAME | LOCATION | fax 6-4983 |
| FROM: | <u>L. Burlison</u> | <u>MO-049</u> | <u>3-5363</u> |
| | NAME | LOCATION | PHONE |

NUMBER OF PAGES 4 4120 (12) (4) (excluding coversheet)

DAILY DRILLING STATUS FOR BOREHOLE: DC-24CX

DATE: December 8, 1987 (as of 2400 hours)

CURRENT DEPTH: 2031'

24-HOUR FOOTAGE: 79'

FORMATION: Frenchman Springs; Sand Hollow Formation

DESCRIPTION OF ACTIVITIES:

Drilling operations were temporarily halted to repair damaged goose-neck and slingshot that was washed out by the abrasive action of the drill cuttings. Drilling resumed with no significant problems. A survey was taken at 1977' indicating a 3/4" deviation.

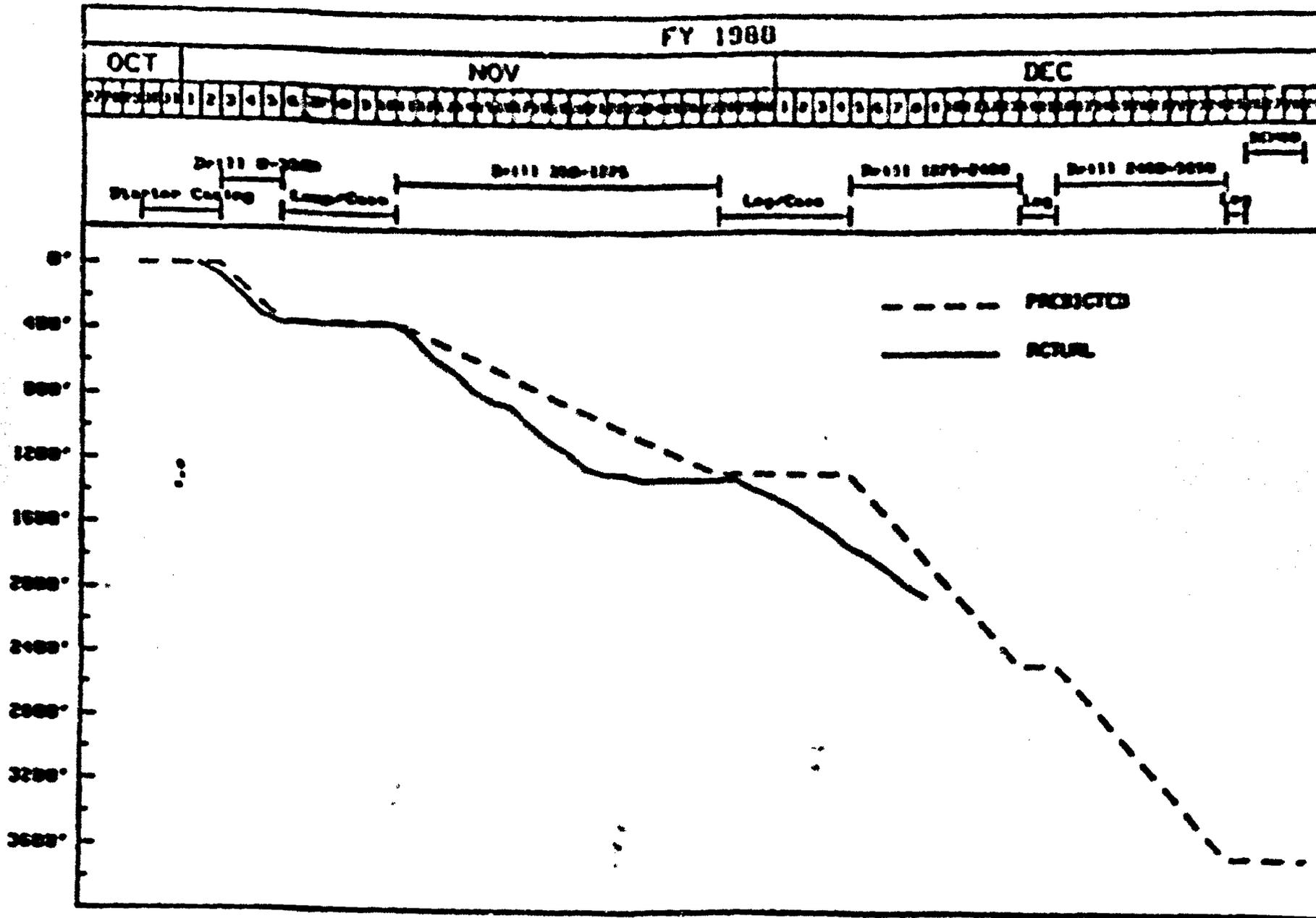
The fluid level in the borehole is being maintained between 200' to 250' below ground surface.

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| HO JAMISON | 59-45 | SM PRICE | H9-19 | JG WOOLARD | 59-44 |

PREPARED BY: R. L. Ryder

DC-24CX DRILLING SCHEDULE



FROM ONLY TO DATE

DAILY DRILLING STATUS FOR BOREHOLE. DC-200A

DATE: December 8, 1987 (as of 2400 hours)

CURRENT DEPTH: 1577.9'

24-HOUR FOOTAGE: 97.4'

FORMATION: Umatilla Member; Mabton Interbed

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. The Mabton Interbed was encountered at a depth of about 1504'. A survey was taken at 1469.22' indicating a deviation of about 1/4°.

A fluid sample was collected at a depth of 1550'.

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PREPARED BY: J. P. Mollusky

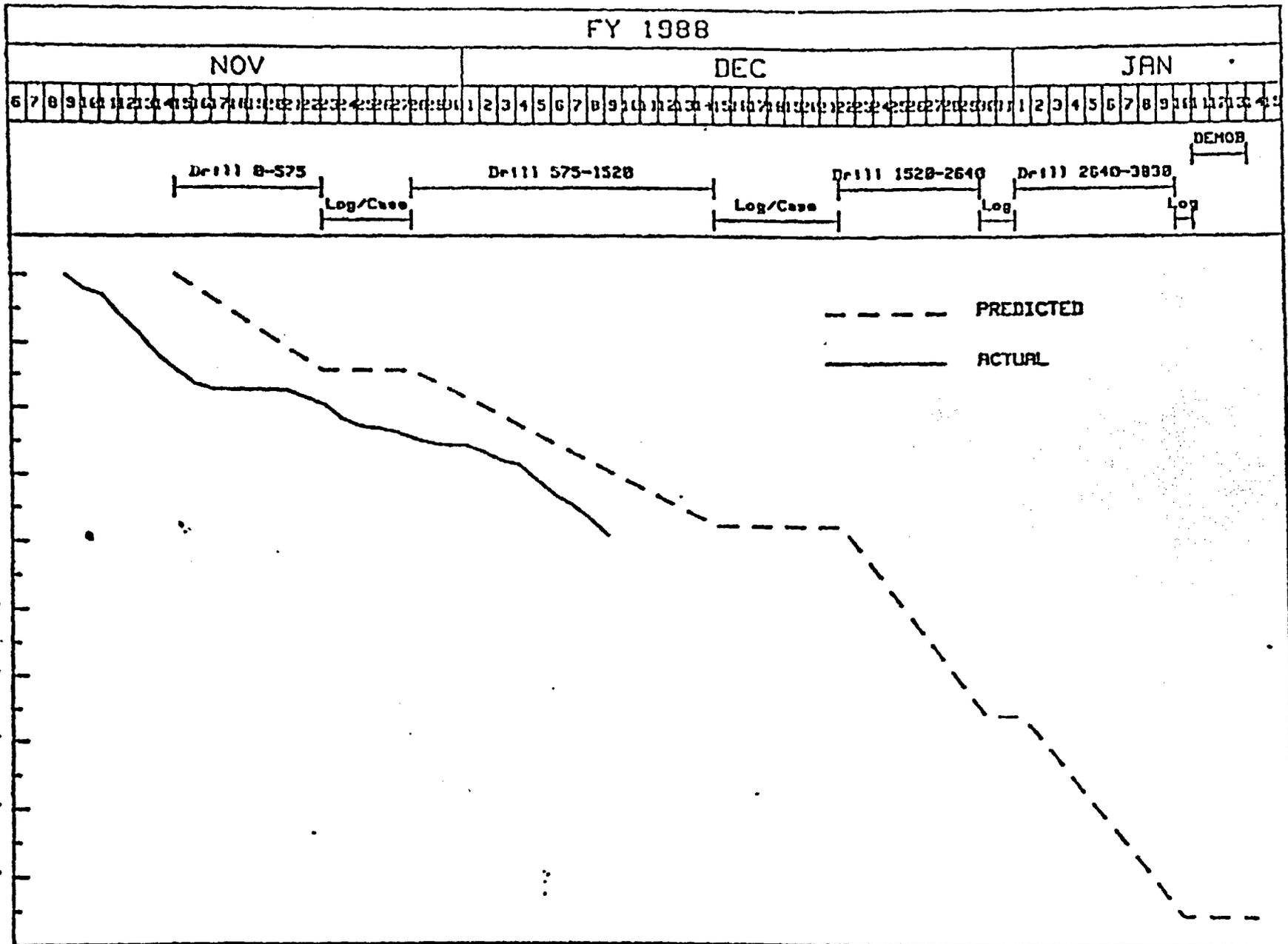
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DC-25CX DRILLING SCHEDULE



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RICHLAND, WASHINGTON 99352

BASALT WASTE ISOLATION PROJECT
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FAX NUMBER
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VERIFICATION
TELEPHONE (509) 373-1323

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| TO: | <u>A. Lassila</u> | <u>Fed. Bldg.</u> | <u>PHONE</u> |
| | NAME | LOCATION | fax 6-4983 |
| FROM: | <u>L. Burleson</u> | <u>MO-243</u> | <u>3-5363</u> |
| | NAME | LOCATION | PHONE |

NUMBER OF PAGES 14 4 20 12 4 (excluding coversheet)

DAILY DRILLING STATUS FOR BOREHOLE: DC-24CX

DATE: December 7, 1987 (as of 2400 hours)

CURRENT DEPTH: 1961'

24-HOUR FOOTAGE: 93.97'

FORMATION: Sand Hollow Formation

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems.

Fluid level in the borehole is being maintained between 200' to 250' below ground surface. A survey was taken at 1827' indicating a 1° deviation and at 1887' indicating a 3/4° deviation.

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PREPARED BY: R. L. Ryder

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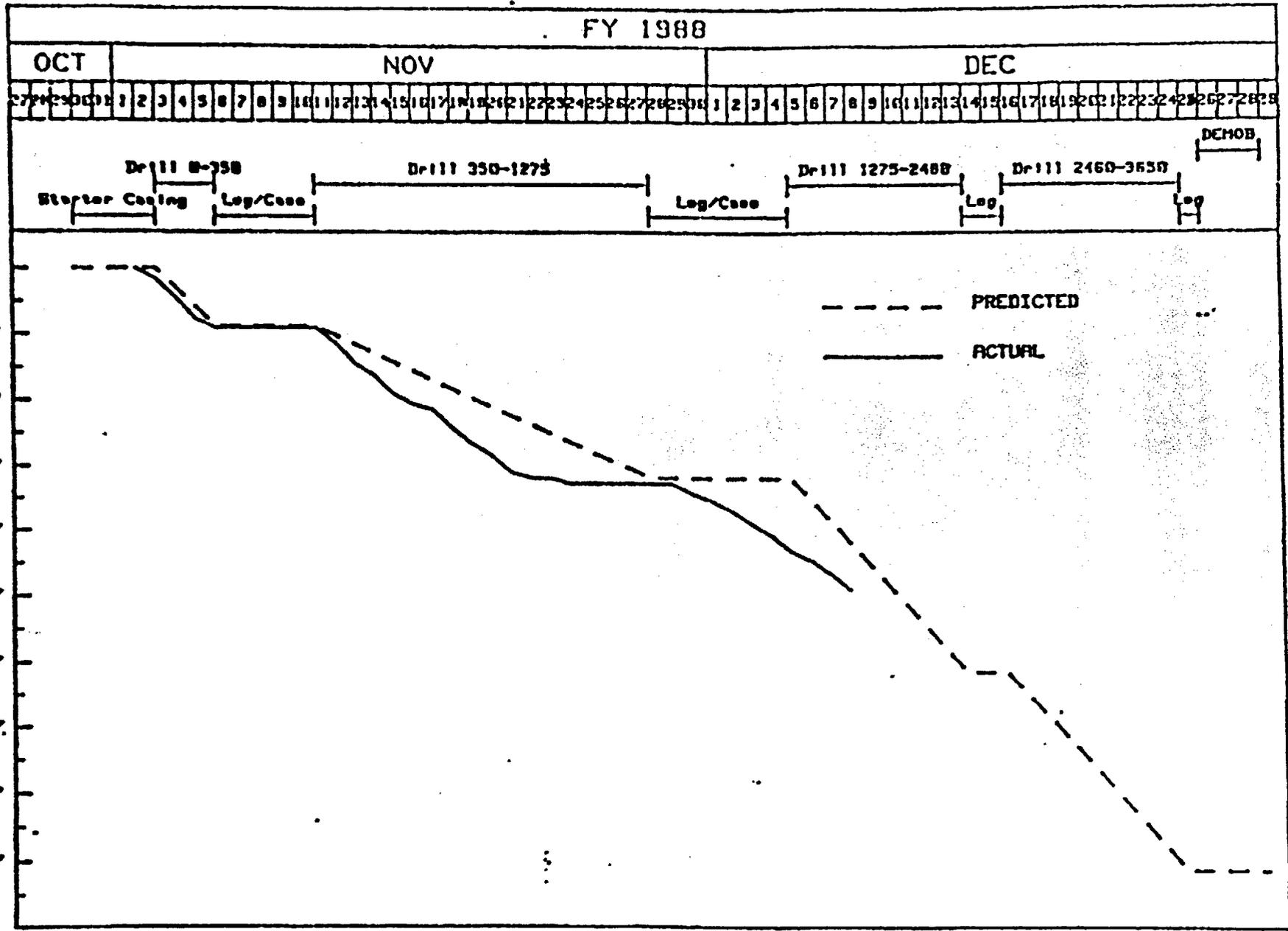
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DC-24CX DRILLING SCHEDULE

NO. 4 PAGE 3

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PAGE 4
NO. 4

DATE: December 7, 1987 (as of 2400 hours)

CURRENT DEPTH: 1480.50'

24-HOUR FOOTAGE: 83.50'

FORMATION: Umatilla Member

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems.

A survey was taken at 1406.42' indicating a 1/4° deviation.

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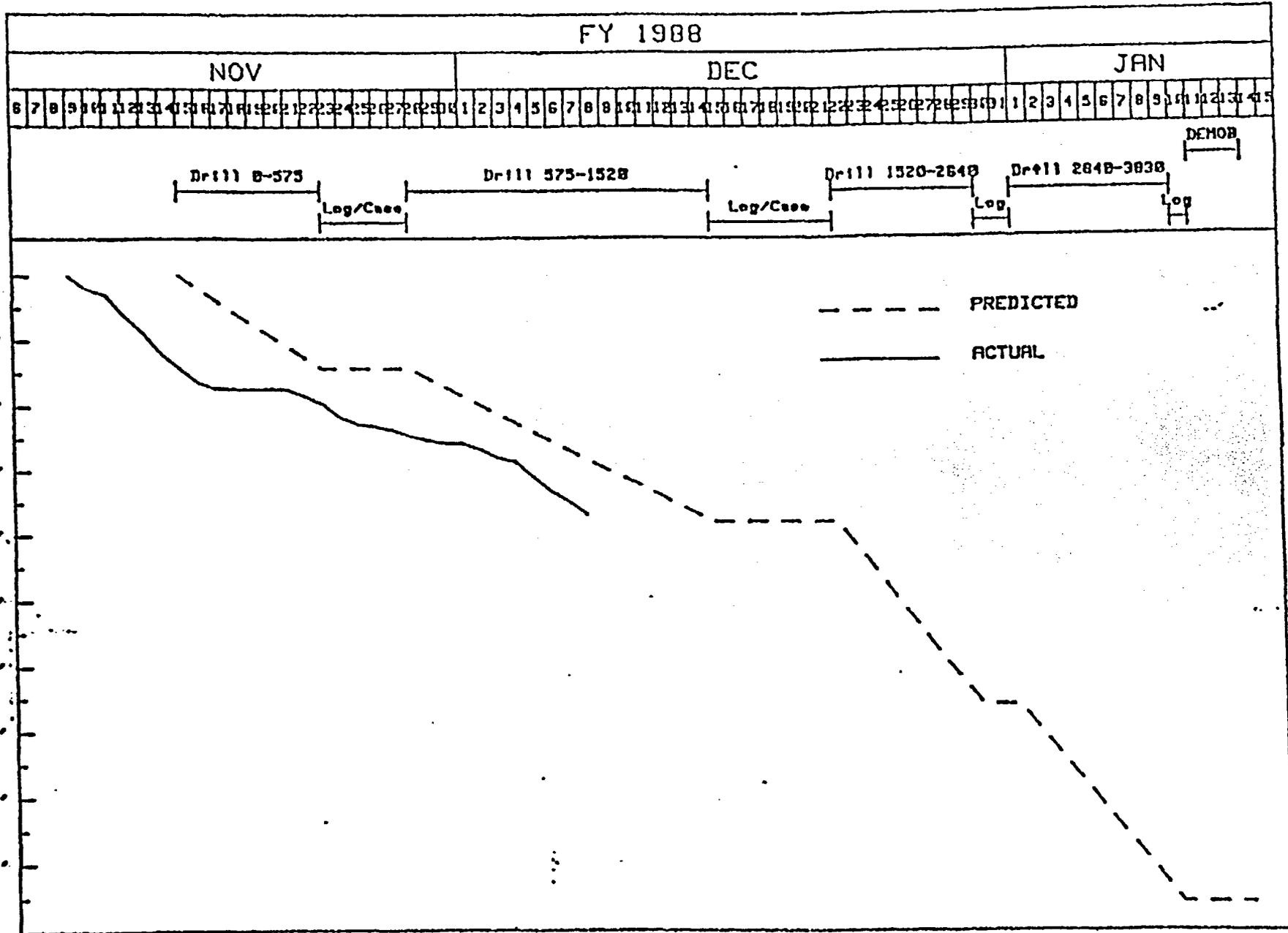
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PREPARED BY: J. P. Mollusky

DC-25CX DRILLING SCHEDULE

NO. 4 PAGE 5



CTUE)12.00.'87 00159

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12/7/87

CC: *Syatt*
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| TO: | <u>A. Lassila</u> | <u>Fed. Bldg.</u> | <u>PHONE</u> |
| | NAME | LOCATION | fax 6-4963 |
| FROM: | <u>L. Burlason</u> | <u>MO-240</u> | <u>3-5363</u> |
| | NAME | LOCATION | PHONE |

NUMBER OF PAGES 4 4 20 12 (excluding coversheet)

DAILY DRILLING STATUS FOR BUREAU. DC-240A

DATE: December 4, 1987 (as of 2400 hours)

CURRENT DEPTH: 1728.09'

24-HOUR FOOTAGE: 94.68'

FORMATION: Roza Member; Squaw Creek Interbed; Sentinel Gap Member

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. The Squaw Creek interbed was encountered at a depth of approximately 1660'. The Sentinel Gap member was encountered at a depth of approximately 1662'.

The fluid level in the borehole is being maintained between 200' to 250' below ground level. A survey was taken at 1683.99' indicating a 1/4° deviation.

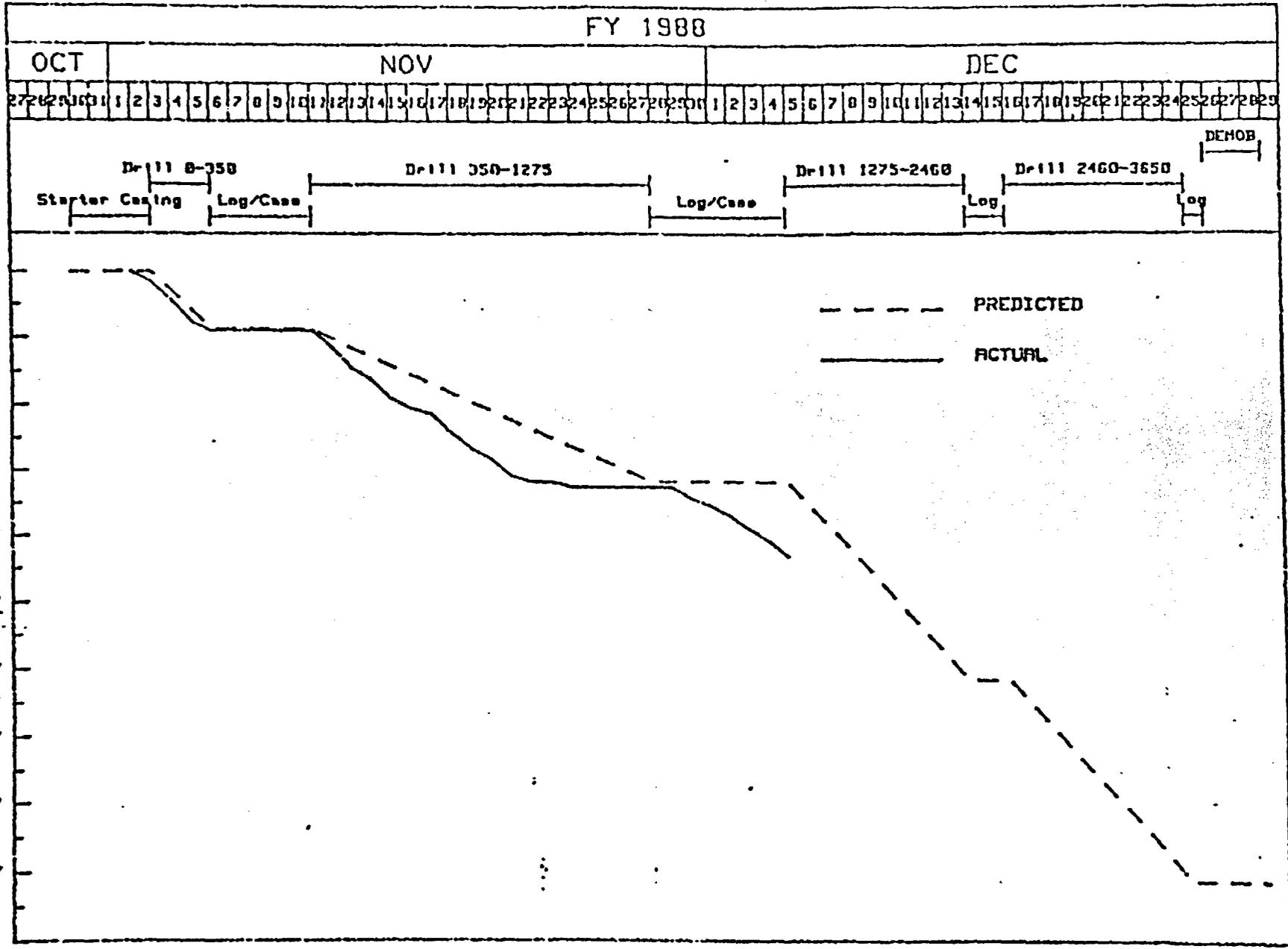
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PREPARED BY: R. L. Ryder

DC-24CX DRILLING SCHEDULE

FY 1988



DAILY DRILLING STATUS FOR BOREHOLE: DC-240A

DATE: December 5, 1987 (as of 2400 hours)

CURRENT DEPTH: 1783.80'

24-HOUR FOOTAGE: 55.79'

FORMATION: Sentinel Gap Member

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. At 1300 hours, the drill string was pulled from the hole to make a bit change. Drilling resumed at 2400 hours. The fluid level in the borehole is being maintained at 200' to 250' below ground level.

A survey was taken at 1731' indicating a 3/4° deviation.

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PREPARED BY: R. L. Ryder

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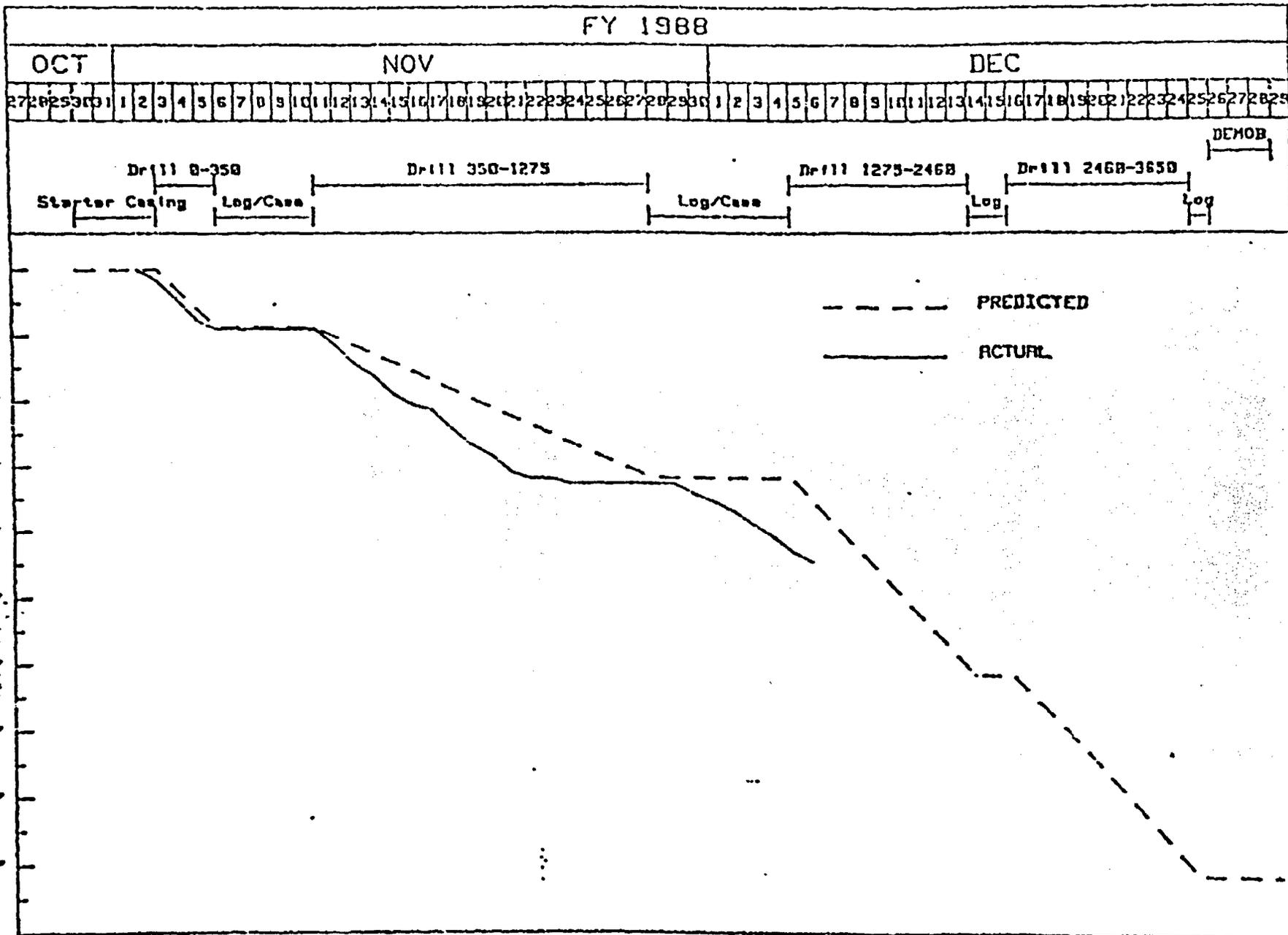
DC-24CX DRILLING SCHEDULE

PAGE 5

NO. 7

(MON) 12.07.'87 11:34

FROM BUWP ES SITE



(CHON)12.07.'07 11:34

DATE: December 6, 1987 (as of 2400 hours)

CURRENT DEPTH: 1867.03'

24-HOUR FOOTAGE: 83.15'

FORMATION: Sentinel Gap; Sand Hollow Formation

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. Encountered the top of the Sand Hollow formation at approximately 1862'.

DISTRIBUTION:

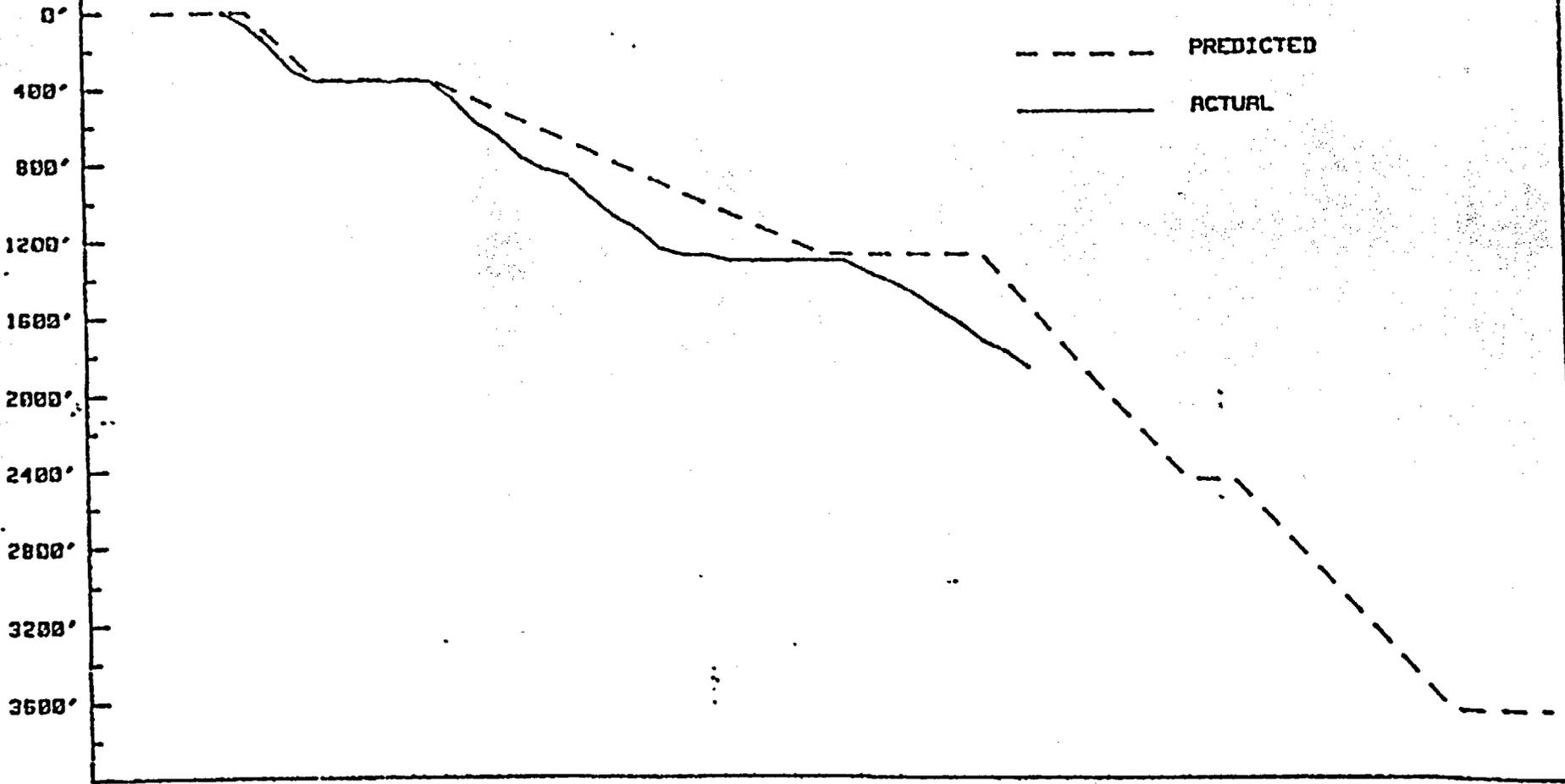
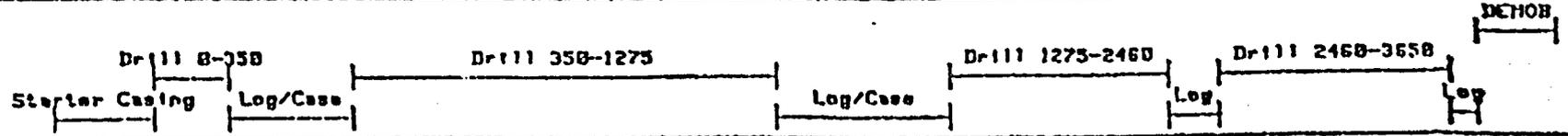
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| NM HUTCHINS | G9-12 | PE LONG | H9-19 | KL TOMAC | H9-20 |
| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: R. L. Ryder

DC-24CX DRILLING SCHEDULE

FY 1988

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| 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |



NO.7 PAGE 7

MON 12-07-87 11:35

FROM BUIP ES SITE

DATELY DRILLING STATUS FOR BOREHOLE. 00 2000

DATE: December 4, 1987 (as of 2400 hours)

CURRENT DEPTH: 1244.60'

24-HOUR FOOTAGE: 93.69'

FORMATION: Esquatze1 Member; Cold Creek Interbed

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. Encountered Cold Creek Interbed at approximately 1170'.

A survey was taken at 1132.28' indicating a 1° deviation and at 1223.65' indicating a 3/4° deviation.

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PREPARED BY: J. P. Mollusky

PAGE 8

NO. 7

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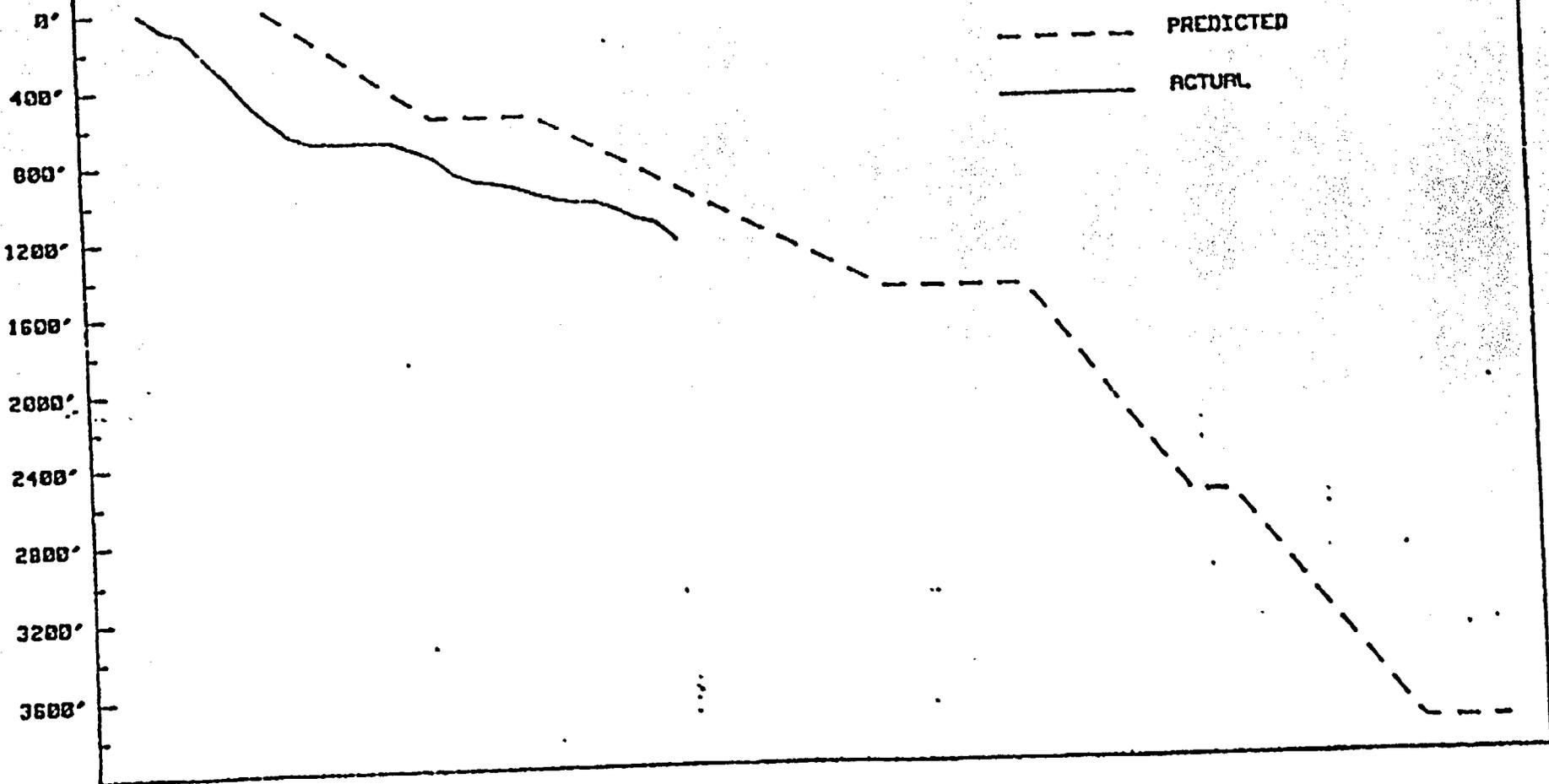
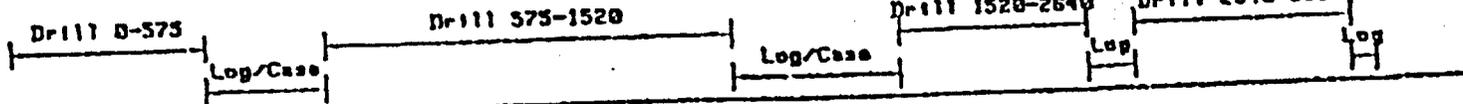
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NO. 7 PAGE 9
 (MON) 12.07.87 11:36
 FROM BUIP ES SITE

DATE: December 5, 1987 (as of 2400 hours)CURRENT DEPTH: 1333.79'24-HOUR FOOTAGE: 89.19'FORMATION: Cold Creek Interbed; Umatilla Member

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. Encountered top of the Umatilla Member at approximately 1260'. At 0830 hours, the drill string was pulled from the hole to change the drill bit; resumed drilling at 1315 hours.

A survey was taken at 1283.91' indicating a 1/2° deviation.

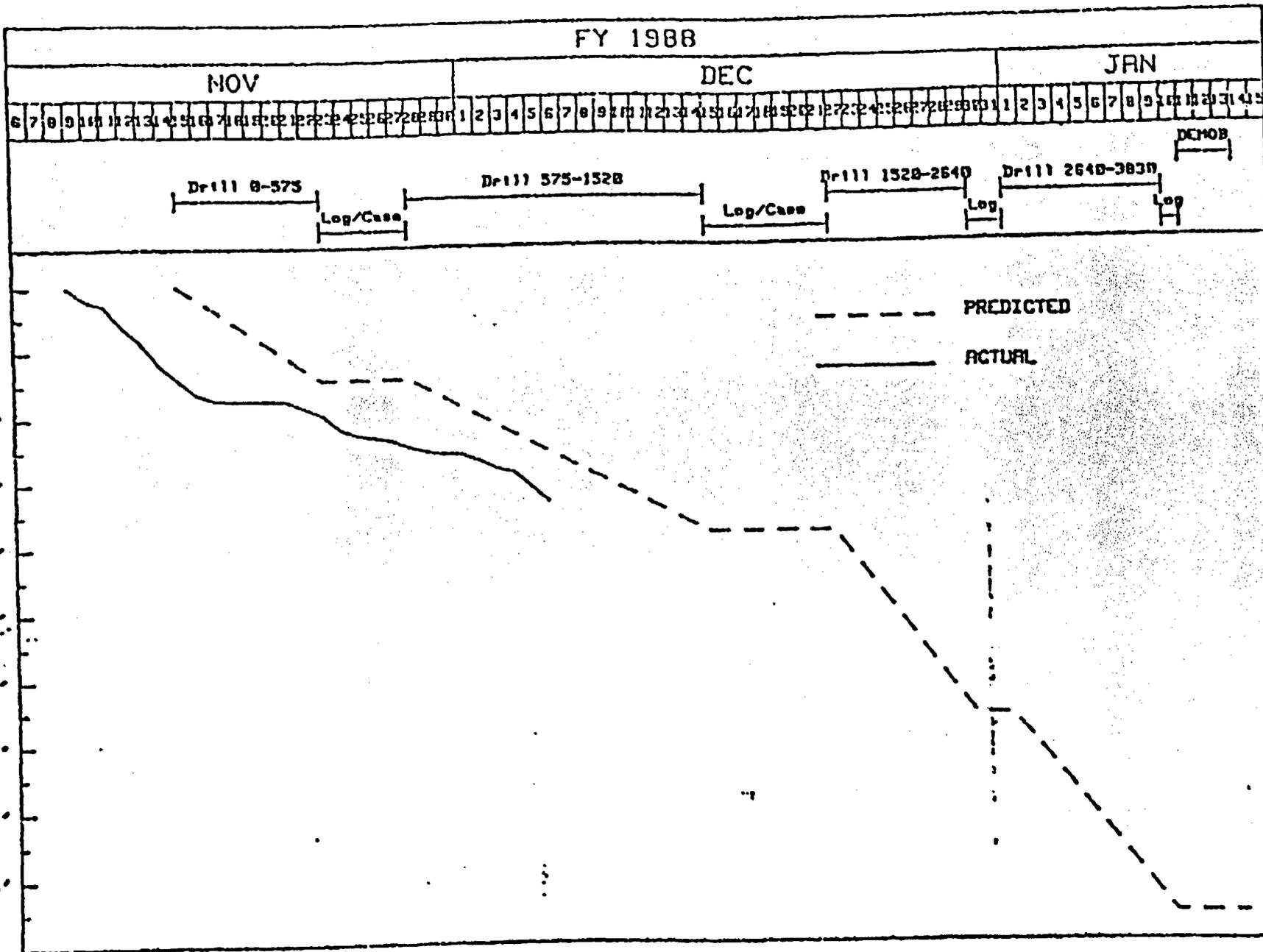
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| DC GIBBS | H9-21 | DE MAHAGIN | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: J. P. Mollusky

DC-25CX DRILLING SCHEDULE

FY 1988



PAGE 11

NO. 7

(MON) 12.07.87 11:30

R BUIP ES SITE

DATE: December 6, 1987 (as of 2400 hours)

CURRENT DEPTH: 1397.00'

24-HOUR FOOTAGE: 63.21'

FORMATION: Umatilla Member

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems.

A survey was taken at 1346.78' indicating a 3/4° deviation and at 1376.29' indicating a 1/2° deviation.

DISTRIBUTION:

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| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: J. P. Mollusky

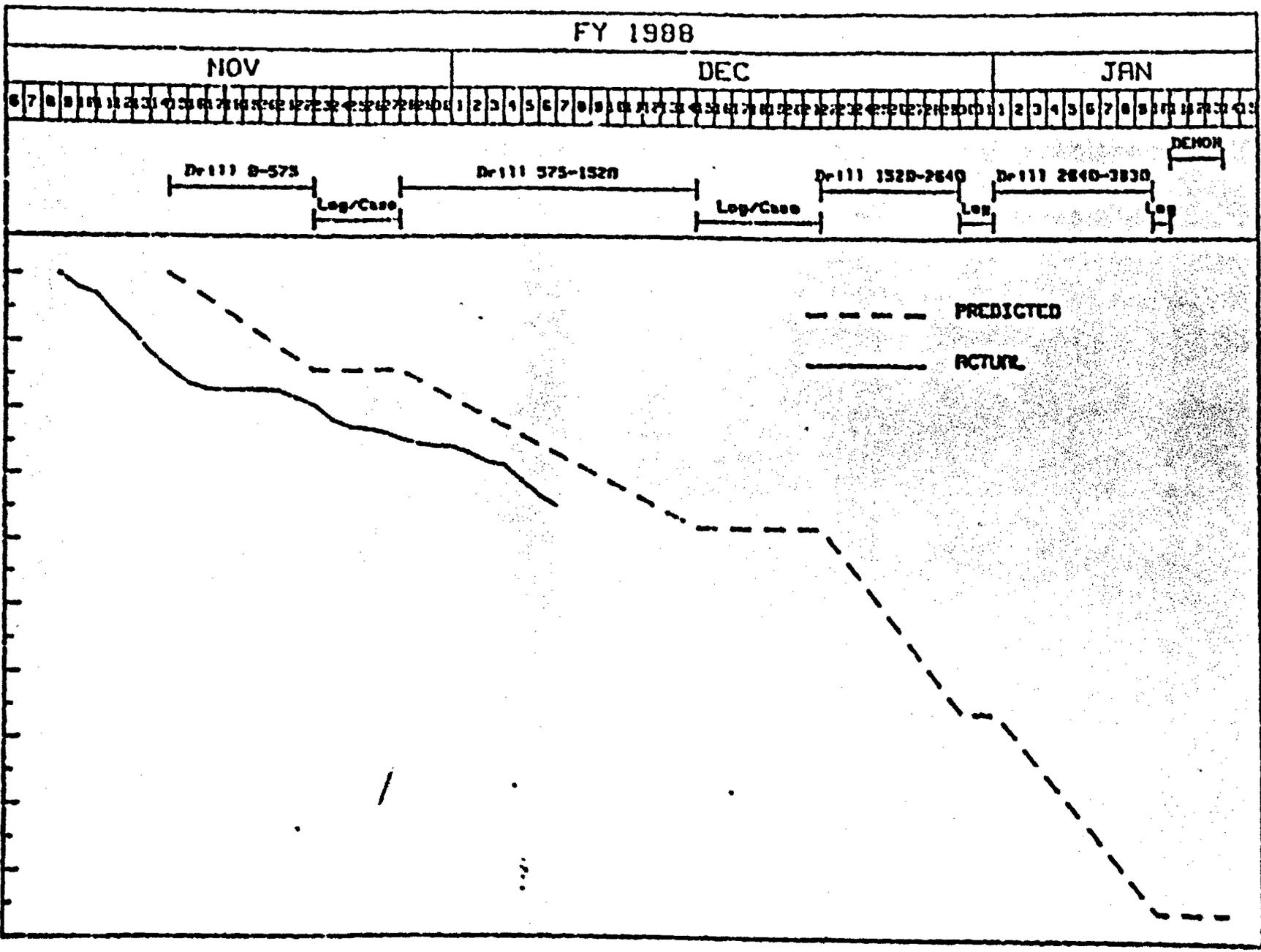
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PAGE 12
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ROM BUIP ES SITE

DC-25CX DRILLING SCHEDULE

NO. 7 PAGE 13

FROM 13.07.87 11:39

ROM BUIP ES SITE



WESTINGHOUSE HANFORD COMPANY
RICHLAND, WASHINGTON 99352

BASALT WASTE ISOLATION PROJECT
"ES" SITE

FAX NUMBER
TELEPHONE (509) 373-1329

VERIFICATION
TELEPHONE (509) 373-1323

12/4/87
Cc: Anttonen
Iyatt
Lassila
Thompson
Consort
Cook
Alkyluony
Aamotony

| | | | |
|-------|--------------------|-------------------|---------------|
| TO: | <u>A. Lassila</u> | <u>Fed. Bldg.</u> | <u>PHONE</u> |
| | NAME | LOCATION | fax 6-4963 |
| FROM: | <u>L. Burlison</u> | <u>MO-243</u> | <u>3-5363</u> |
| | NAME | LOCATION | PHONE |

NUMBER OF PAGES 4 4 20 (excluding coversheet)

DATE: December 3, 1987

CURRENT DEPTH: 1633.41'

24-HOUR FOOTAGE: 71.00'

FORMATION: Roza Member

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. The fluid level in the wellbore is being maintained at 200' to 250' below ground level.

A survey was taken at 1593.71' indicating a 1/2° deviation.

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PREPARED BY: L. A. Deer

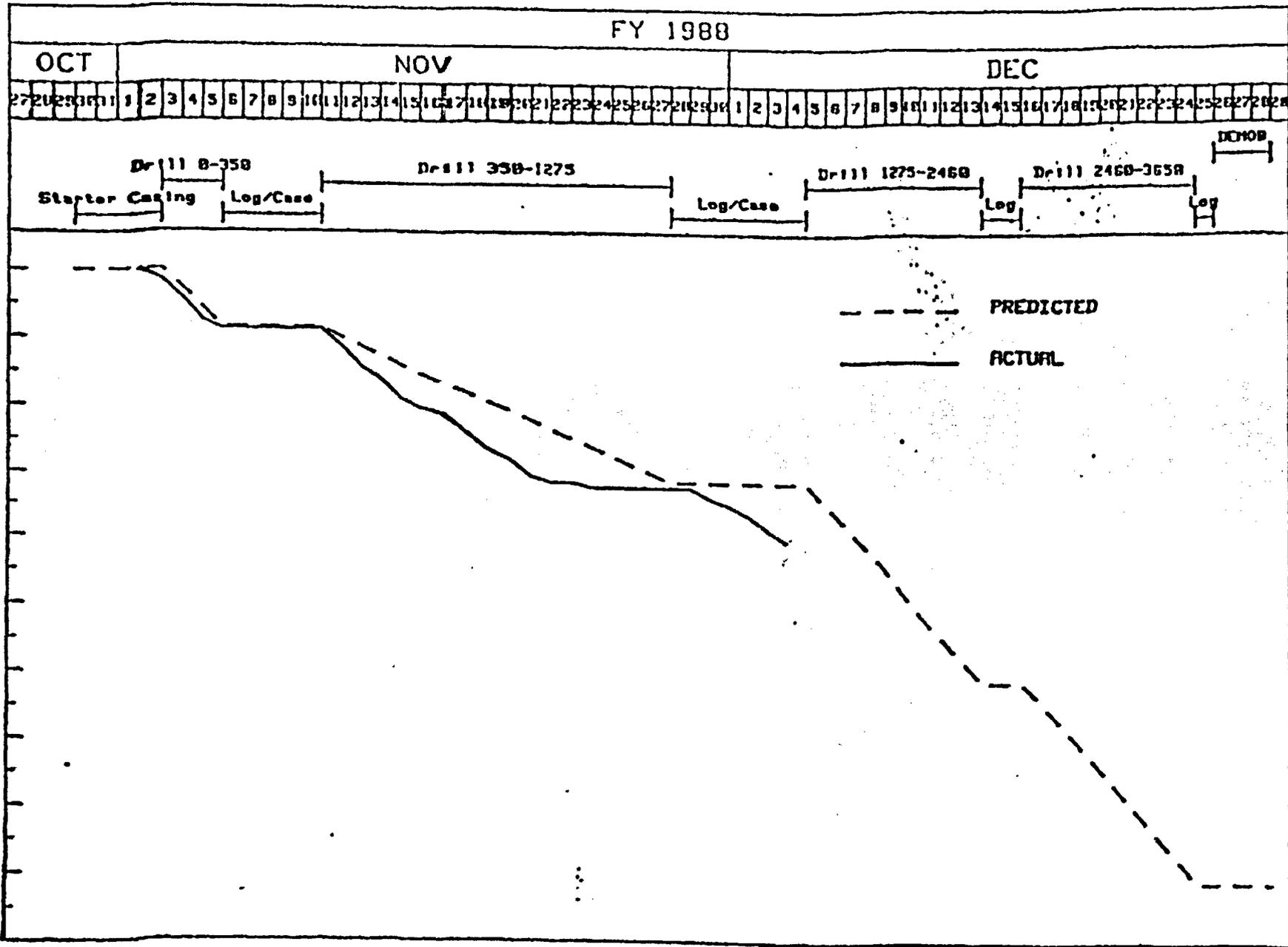
DC-24CX DRILLING SCHEDULE

PAGE 3

NO. 5

(FRI) 12.05.87 09132

FROM BUYP ES SITE



DAILY DRILLING STATUS FOR BOREHOLE: DC-25CX

DATE: December 3, 1987

CURRENT DEPTH: 1150.91'

24-HOUR FOOTAGE: 26.31'

FORMATION: Saddle Mountain Basalt (Esquatzei Member)

DESCRIPTION OF ACTIVITIES:

Drilling continued to a depth of 1141.30'. At 0645 hours, the bottom hole assembly twisted off at the shock subs. Fishing operations commenced immediately, and the twisted off drilling assembly was successfully recovered from the borehole at 1600 hours. A new shock sub was added to the assembly and drilling resumed at 1900 hours.

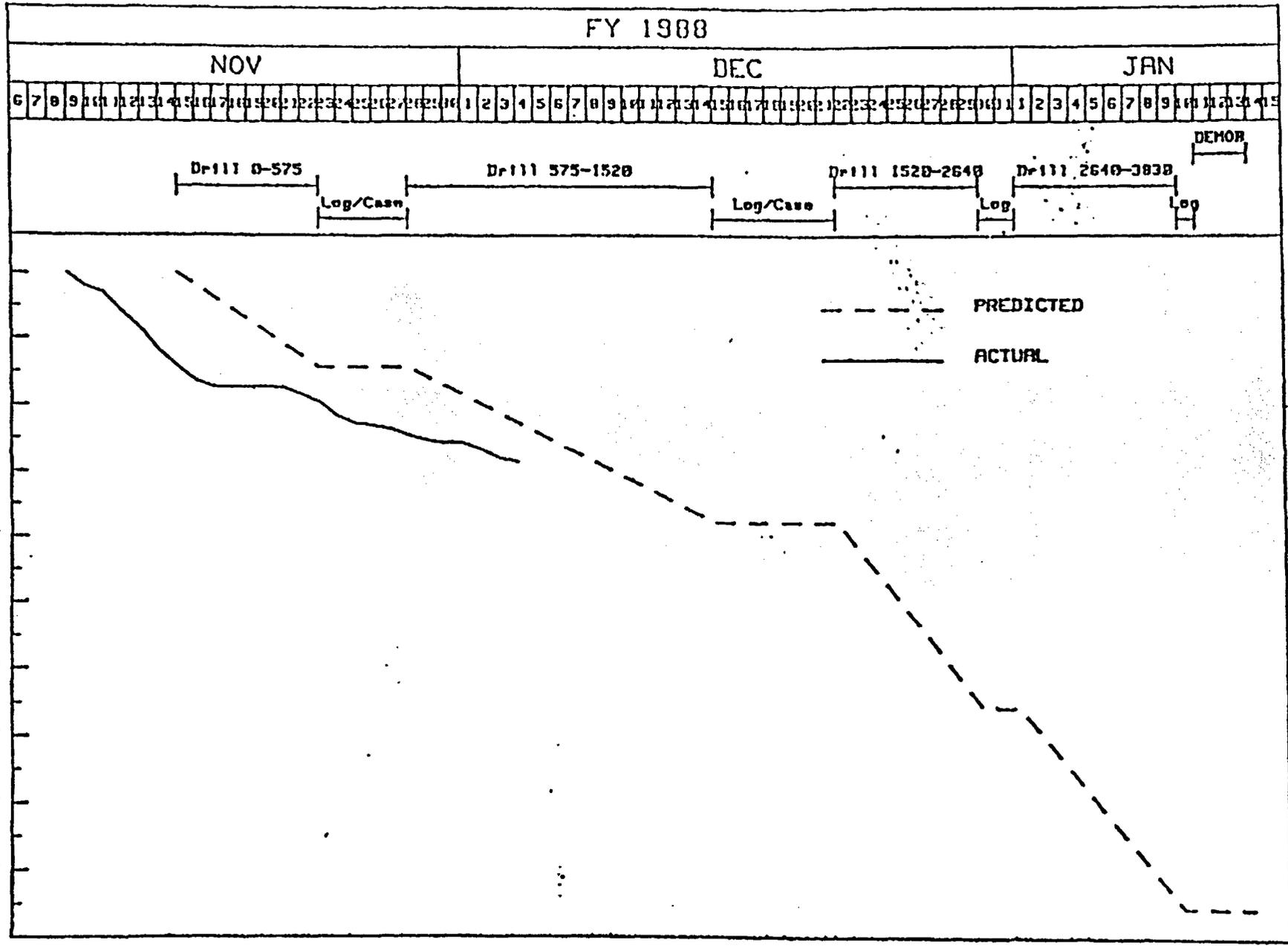
A survey was taken at 1132.28' indicating a 1° deviation.

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|-------------|-------|------------|---------|-------------|-------|
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PREPARED BY: B. W. Volk

DC-25CX DRILLING SCHEDULE



12/3/87

Cc: Anttonen
Inatt
Lassila
Thompson
Conant
Cook
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WESTINGHOUSE HANFORD COMPANY
RICHLAND, WASHINGTON 99352

BASALT WASTE ISOLATION PROJECT
"ES" SITE

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TELEPHONE (509) 373-1329

VERIFICATION
TELEPHONE (509) 373-1323

| | | | |
|-------|--------------------|-------------------|---------------|
| TO: | <u>A. Lassila</u> | <u>Fed. Bldg.</u> | <u>PHONE</u> |
| | NAME | LOCATION | fax 6-4963 |
| FROM: | <u>L. Burleson</u> | <u>MO-249</u> | <u>3-5363</u> |
| | NAME | LOCATION | PHONE |

NUMBER OF PAGES 4 4 20 (excluding coversheet)

DAILY DRILLING STATUS FOR BOREHOLE. DC-270A

DATE: December 2, 1987 (as of 2400 hours)

CURRENT DEPTH: 1560.41'

24-HOUR FOOTAGE: 82.29'

FORMATION: Rosalie Flow/Quincy Interbed/Roza Member

DESCRIPTION OF ACTIVITIES:

Drilling progressed with no significant problems. Encountered the Quincy Interbed at 0220 hours and a depth of approximately 1484'. Encountered the top of the Roza Member at 0400 hours and a depth of approximately 1496'. The fluid level in the borehole is being maintained at approximately 250' below ground level.

A survey was taken at a depth of 1501.68' indicating a 3/4° deviation.

DISTRIBUTION:

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PREPARED BY: L. A. Deer

BWD ES SITE

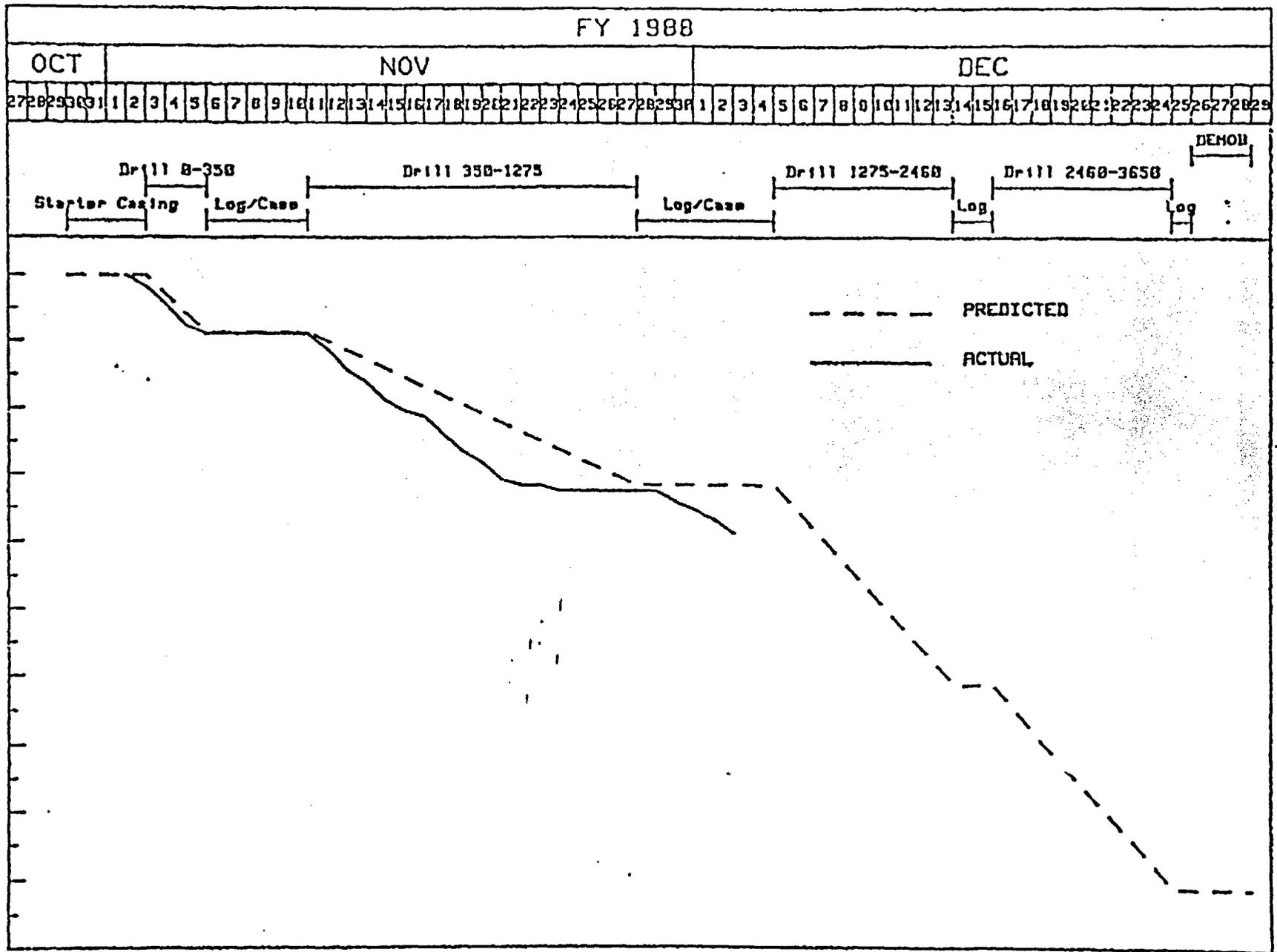
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DC-24CX DRILLING SCHEDULE

ION BULP ES SITE



DAILY DRILLING STATUS FOR BOREHOLE: DC-250X

DATE: December 2, 1987 (as of 2400 hours)

CURRENT DEPTH: 1124.6'

24-HOUR FOOTAGE: 53.4'

FORMATION: Esquetzel Member of the Saddle Mountain Basalt

DESCRIPTION OF ACTIVITIES:

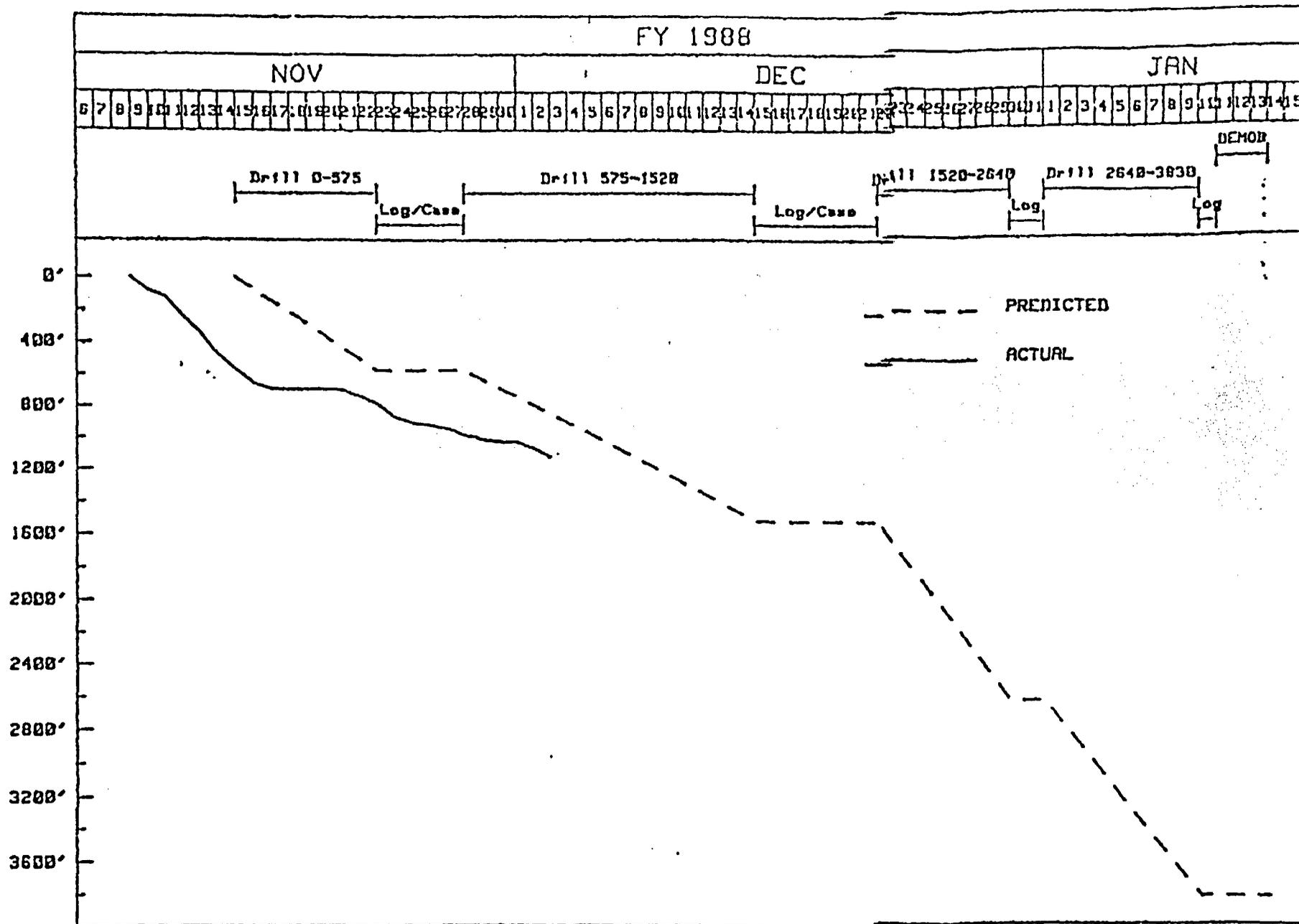
Drilling progressed with no significant problems. Two surveys were run; the first at a depth of 1069.77' indicating a 3/4° deviation, and the second at a depth of 1101.39' indicating a 1/4° deviation.

DISTRIBUTION:

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| DC GIBBS | H9-21 | DE MAHAGIN . | H9-21 | TM WINTCZAK | G9-12 |
| RL JACKSON | S9-41 | DJ MOAK | S9-43 | RJ VIENS | H9-21 |
| HD JAMISON | S9-45 | SM PRICE | H9-19 | JG WOOLARD | S9-44 |

PREPARED BY: B. W. Volk

DC-25CX DRILLING SCHEDULE



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