



BECHTEL NATIONAL INC.

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 Naval Facilities Engineering Command
 Southwest Division
 Mr. Richard Selby, Code 57CS1.RS
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 1220 Pacific Highway
 San Diego, CA 92132-5190

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FROM: [Signature]
 D. J. Tedaldi, Ph.D., P.E., Project Manager

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MEETING MINUTES

Meeting Subject: Site 24 Pilot Test Update	Meeting Date: October 22, 1997 Meeting Time: 10:00 AM Meeting Place: Conference Call Meeting Notes Prepared By: Patrick Brooks						
Attendees: (*Part Time) <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>Navy</u></td> <td style="text-align: center;"><u>Bechtel</u></td> <td style="text-align: center;"><u>Other</u></td> </tr> <tr> <td>Bernie Lindsey, SWDIV</td> <td>Pat Brooks, CTOL Tim Latas, Field Manager Dante Tedaldi, PM</td> <td>Glenn Kistner, U.S. EPA Herb Levine, U.S. EPA Tayseer Mahmoud, DTSC Larry Vitale, RWQCB</td> </tr> </table>		<u>Navy</u>	<u>Bechtel</u>	<u>Other</u>	Bernie Lindsey, SWDIV	Pat Brooks, CTOL Tim Latas, Field Manager Dante Tedaldi, PM	Glenn Kistner, U.S. EPA Herb Levine, U.S. EPA Tayseer Mahmoud, DTSC Larry Vitale, RWQCB
<u>Navy</u>	<u>Bechtel</u>	<u>Other</u>					
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Additional Distribution: Andy Piszkin, SWDIV El Toro File Document Control							
<p>Pat Brooks opened the meeting with a discussion of the constant-rate pumping test at extraction well 24EX3. The test was started on October 3 and completed on October 17, which fulfills the work plan specification of a two-week constant-rate test. The data show some flattening of the curve during the last 3 days of pumping. Background water levels were measured in wells several hundred feet away. The background wells do not show a regional water level rise, so the flattening of the curve cannot be attributed to that. The observation well drawdown curves and barometric pressure plot are also shown. Each of the observation wells was influenced by the pumping well. The vacuum-enhanced test has not been started yet due to a delay in receiving the absolute pressure transducers and the new data logger. The test will probably start on Monday October 27. Pat suggested that the test be initiated at 15 gallons per minute (gpm), so the vacuum-enhanced data could be compared directly to the standard pumping. The pumping rate could then be increased depending on the available drawdown. Pat asked if the group agreed with this procedure. Everyone agreed.</p> <p>Some analytical results are available for HydroPunch sampling. They are summarized below:</p> <p>24HCPT99 @ 123 feet bgs: 279 µg/L (estimated)</p> <p>24HCPT99 @ 138 feet bgs: 81 µg/L</p> <p>24HCPT99 @ 150 feet bgs: 733 µg/L</p> <p>24HCPT100 @ 122 feet bgs: 15 µg/L</p> <p>24HCPT100 @ 146 feet bgs: 106 µg/L (estimated)</p> <p>24HCPT100 @ 77 feet bgs: ND</p> <p>HydroPunch sampling will continue this week at 24HCPT 99 to collect a sample deeper than the 150-foot sample that had 733 µg/L TCE, and at 24HCPT94 and 24HCPT98. For the week of October 27, samples are planned to be collected at 24HCPT98, 24HCPT97, and 24HCPT101. Samples to be collected at 24HCPT97, 98, and 99 are needed to characterize the vertical extent of TCE contamination. These data will be used to help determine where the injection well screen should start. Injection well 24IN2 will be screened below the TCE-contaminated water in the shallow groundwater unit.</p>							

MEETING MINUTES (continued)

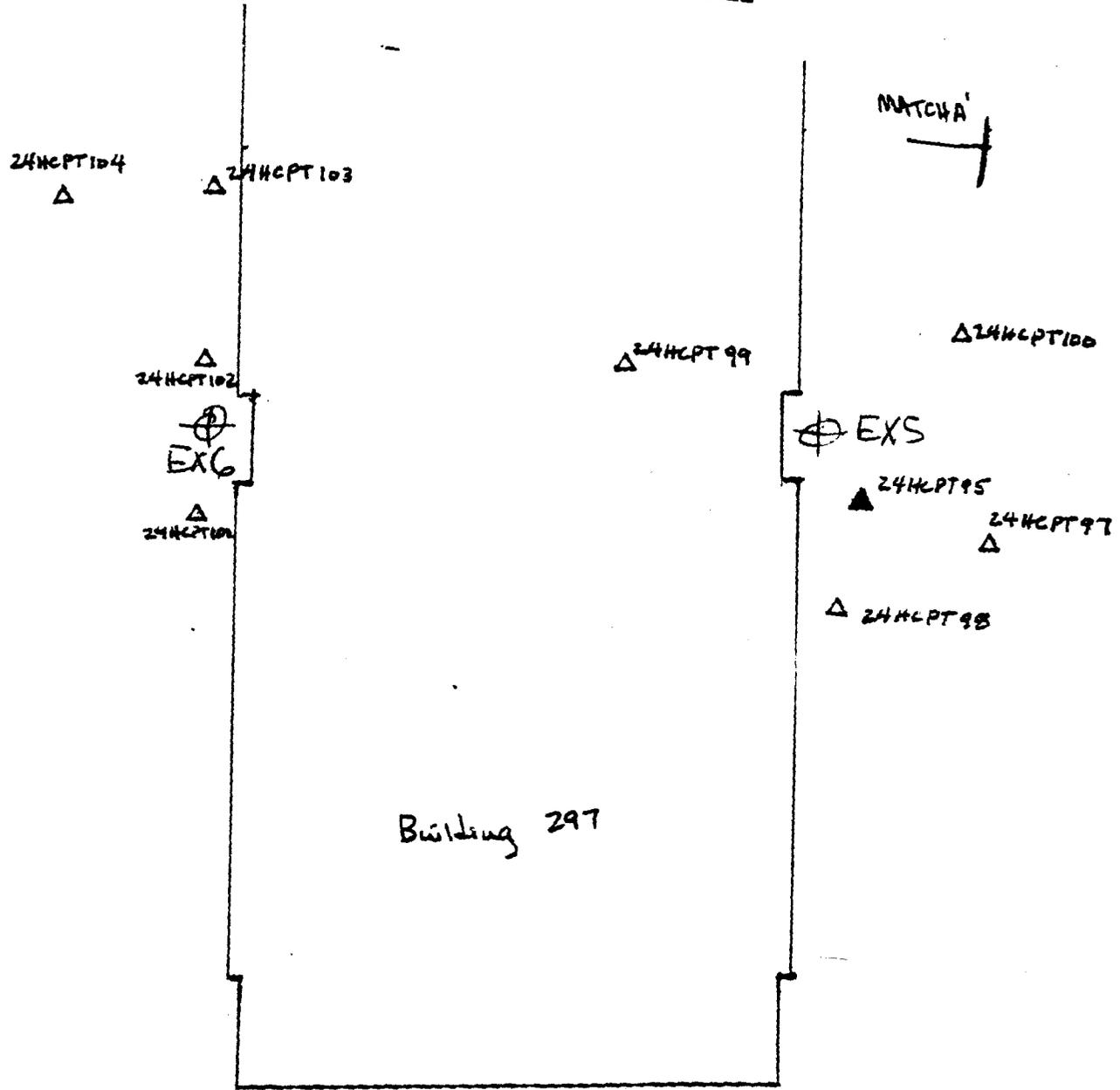
Extraction well 24EX4 has been installed and observation well 24EX4OB1 is being developed. Observation well 24EX4OB2 will be developed tomorrow followed by development of the extraction well. Sampling will occur at least one week after development per the field sampling plan specifications.

The last item on the agenda is agreement of the proposed drilling locations for 24EX5, 24EX6, and 24IN2. The group had agreed that the extraction wells should be installed within the TCE hot spot as discussed in the Work Plan. Results from 24HCPT99 show that the proposed location for extraction well 24EX5 is within the TCE hot spot. Additional sampling in this area is ongoing. Pat recommended drilling the well at the location shown on the base map faxed to all meeting participants on 16 October (and included with these minutes), since the well was within the TCE hot spot and the drilling rig was available to start drilling. The group concurred with the drilling location for 24EX5. Injection well 24IN2 will be installed near 24EX5. Pat added that the location for 24IN2 could be similarly agreed upon if the HydroPunch data at 24HCPT97, 98, and 99 show that TCE concentrations drop off with depth. This trend is expected based on a review of previous data. Groundwater results from test locations near the area proposed for 24IN2 should be available for next week's meeting. The purpose of 24IN2 is to inject treated water beneath the contaminated portion of the shallow groundwater unit and create an upward pressure gradient. Bernie Lindsey reminded the group that it was his position that we wait to decide on the 24EX6 location until data are available from 24HCPT101 and 102. The group concurred with Bernie's rationale. Herb Levine asked that Bechtel prepare a cross-section showing the proposed location of well 24IN2. Pat agreed to send it out before the next meeting.

Attached to these minutes are a site plan showing the locations of CPT/HydroPunch locations and the proposed locations of 24EX5 and 24EX6, drawdown and recovery curves for extraction well 24EX3, and background water levels measured at 18_PS8 and 07_DBMW100..

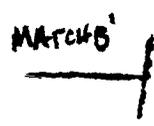
The Plan of Action for Site 24 field work for the next two weeks includes the following:

1. Begin long-term vacuum-enhanced test at extraction well 24EX3 (27 October).
2. Present initial vacuum-enhanced test results.
3. Compile and present constant-rate aquifer test data from extraction well 24EX3.
4. Complete drill and installation of extraction well 24EX4.
5. Develop and sample wells 24EX4, 24EX4OB1 and 24EX4OB2.
6. Continue CPT/HydroPunch work within the TCE groundwater hot spot (initiated 14 October).
7. Finalize drilling locations of extraction wells 24EX5, 24EX6, and 24IN2 (to be discussed during today's conference call).
8. Based on agreement of proposed drilling locations, begin drilling 24EX5.



LEGEND

- ▲ Existing CPT location
- △ Proposed CPT location
- ⊕ Proposed extraction and observation wells
- ⊙ Existing wells



SCALE 1" = 80'

10/16/87

13:24

714 654 8392

BECHTEL

2003

MATCH A

24HCPT100

15

24HCPT97



18

Bldg 296

24HCPT96



24HCPT90



24HCPT93



24HCPT94



24HCPT83



24EX4082



24EX4



24EX4081



24HCPT84

24EX4081



24HCPT92



24HCPT85



24HCPT87



24EX3



24HCPT86



24EX3081



MATCH B

24HCPT89



24EX3083



24HCPT88



24EX3082

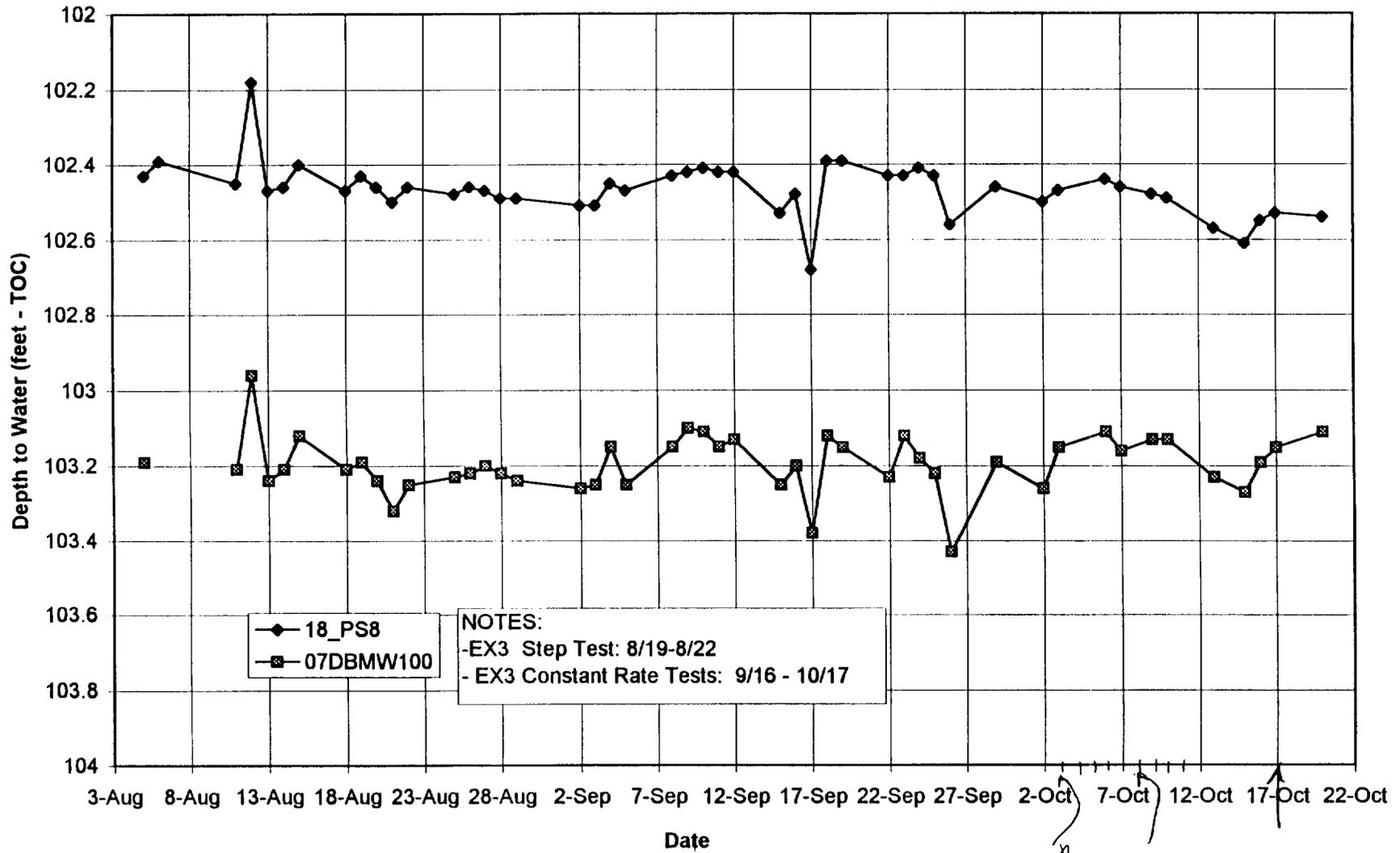


1" = 80'

24HCPT90



Water Levels Prior to And During Aquifer Tests in 24EX3 Background Wells

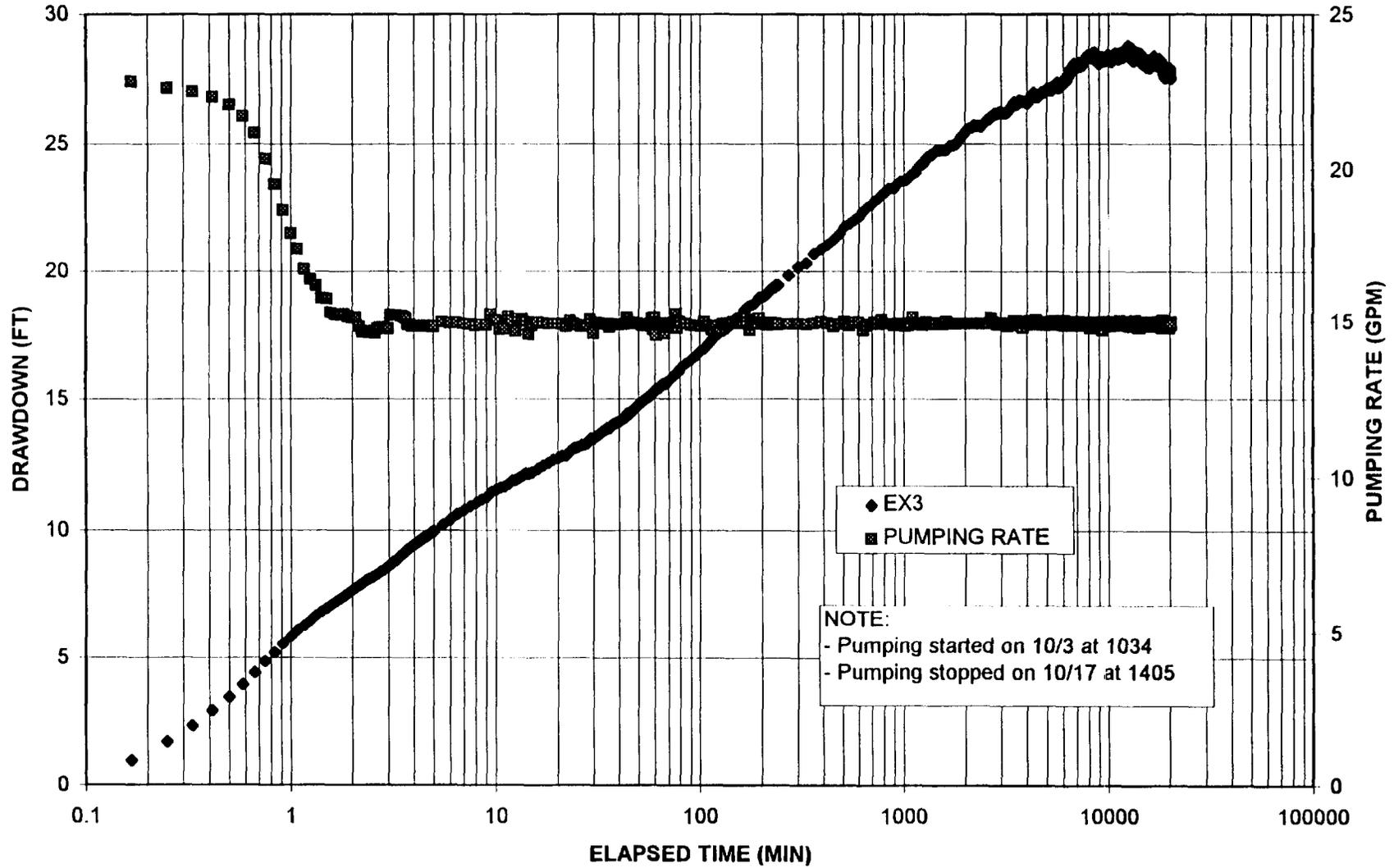


Stand 3

END

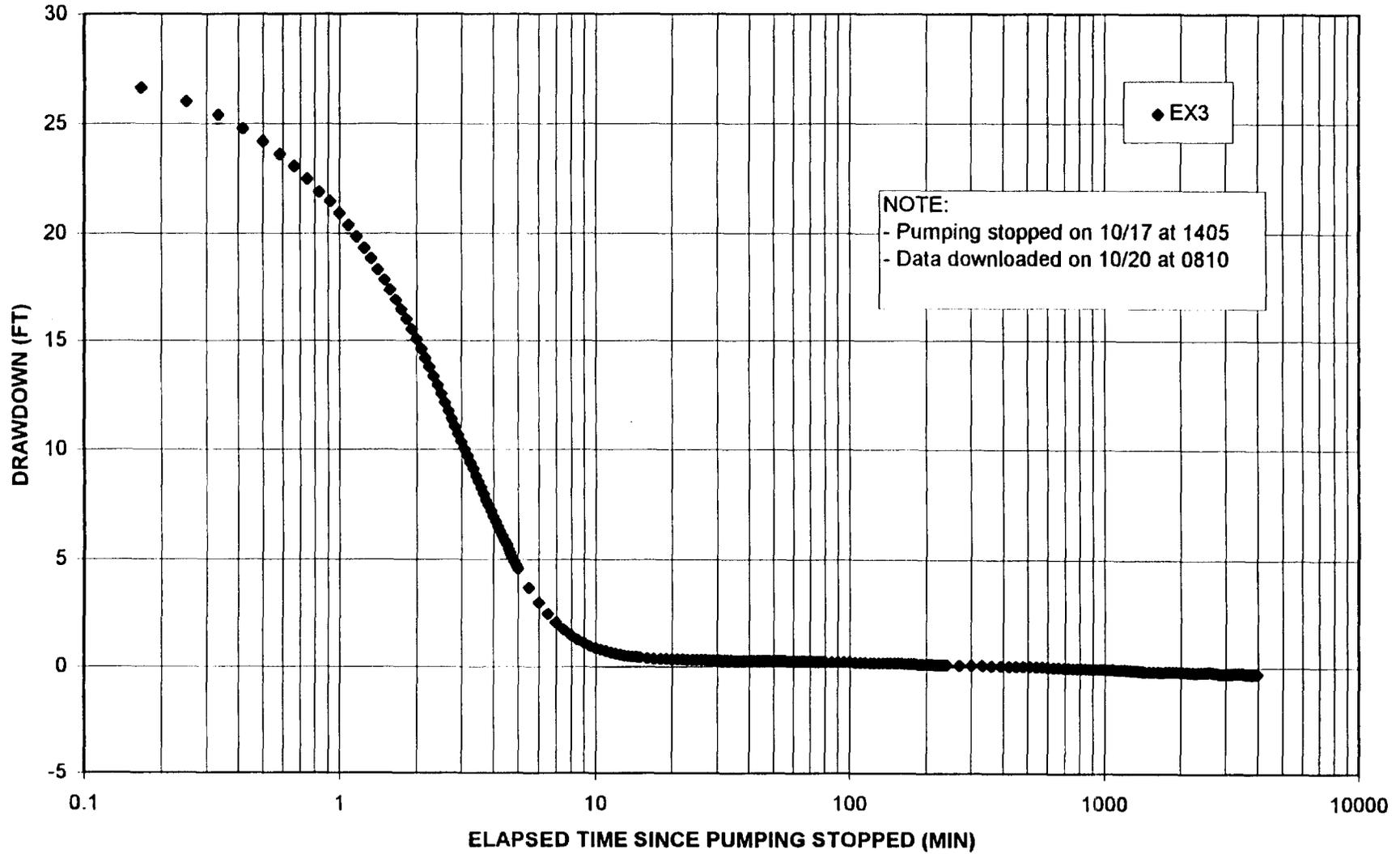
EX3

EX3 CONSTANT RATE AQUIFER TEST #7 PUMPING



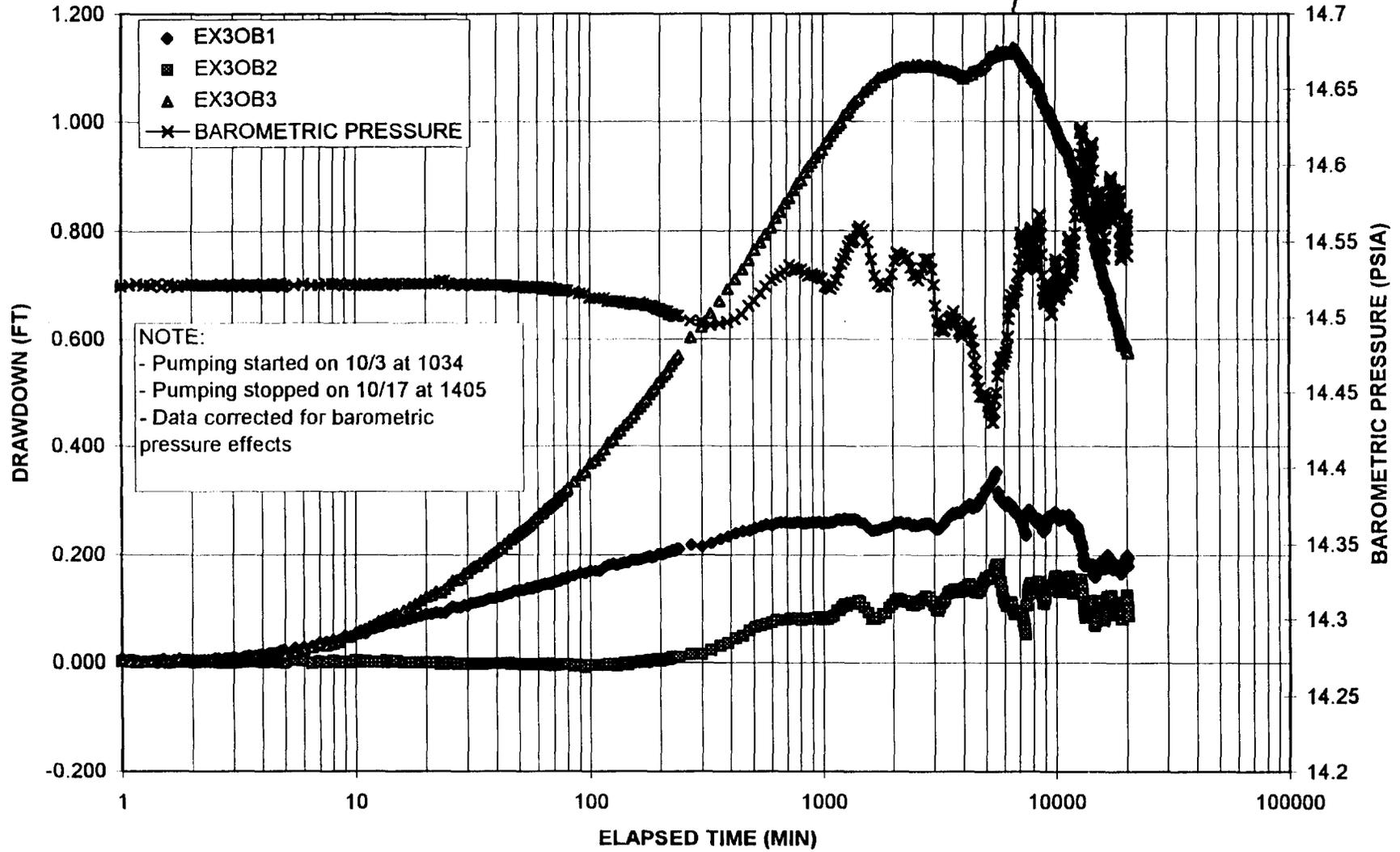
EX3

**EX3 CONSTANT RATE AQUIFER TEST #7
EXTRACTION WELL - RECOVERY**



EX3 CONSTANT RATE AQUIFER TEST #7
PUMPING - OBSERVATION WELLS

w/10/6



EX3 CONSTANT RATE AQUIFER TEST #7 OBSERVATION WELLS - RECOVERY

