

ENGINEERING CHANGE NOTICE

1. ECN 186390

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Proj.
ECN

2. ECN Category (mark one) Supplemental <input checked="" type="checkbox"/> Direct Revision <input type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	3. Originator's Name, Organization, MSIN, and Telephone No. T. J. Wood OM613/RD1CA N3-05 6-2956	3a. USQ Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Date April 13, 1995
	5. Project Title/No./Work Order No. NA	6. Bldg./Sys./Fac. No. NA	7. Approval Designator QD
	8. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-EN-AP-161, Rev 0	9. Related ECN No(s). 614124	10. Related PO No. NA

11a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package No. NA	11c. Modification Work Complete NA	11d. Restored to Original Condition (Temp. or Standby ECN only) NA
Cog. Engineer Signature & Date		Cog. Engineer Signature & Date	

12. Description of Change
WHC-SD-EN-AP-161, Rev 0, "Fitness-for-Intended-Use Evaluation Recommendations for Hanford Site 600 Area Wells." **Increase scope of document to include attached Appendix D.**

13a. Justification (mark one)			
Criteria Change <input checked="" type="checkbox"/>	Design Improvement <input type="checkbox"/>	Environmental <input type="checkbox"/>	Facility Deactivation <input type="checkbox"/>
As-Found <input type="checkbox"/>	Facility Const. <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>	Design Error/Omission <input type="checkbox"/>

13b. Justification Details
Expands plan application in accordance with WAC 173-160 well decommissioning criteria.

14. Distribution (include name, MSIN, and no. of copies)
See Distribution Sheet

RELEASE STAMP

OFFICIAL RELEASE **21**
BY WHC
DATE APR 21 1995
Sta. 21



ENGINEERING CHANGE NOTICE

15. Design Verification Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	16. Cost Impact				17. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION			
	Additional <input type="checkbox"/> \$ NA	Savings <input type="checkbox"/> \$	Additional <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$	Improvement <input type="checkbox"/> NA	Delay <input type="checkbox"/>

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD <input type="checkbox"/>	Seismic/Stress Analysis <input type="checkbox"/>	Tank Calibration Manual <input type="checkbox"/>
Functional Design Criteria <input type="checkbox"/>	Stress/Design Report <input type="checkbox"/>	Health Physics Procedure <input type="checkbox"/>
Operating Specification <input type="checkbox"/>	Interface Control Drawing <input type="checkbox"/>	Spares Multiple Unit Listing <input type="checkbox"/>
Criticality Specification <input type="checkbox"/>	Calibration Procedure <input type="checkbox"/>	Test Procedures/Specification <input type="checkbox"/>
Conceptual Design Report <input type="checkbox"/>	Installation Procedure <input type="checkbox"/>	Component Index <input type="checkbox"/>
Equipment Spec. <input type="checkbox"/>	Maintenance Procedure <input type="checkbox"/>	ASME Coded Item <input type="checkbox"/>
Const. Spec. <input type="checkbox"/>	Engineering Procedure <input type="checkbox"/>	Human Factor Consideration <input type="checkbox"/>
Procurement Spec. <input type="checkbox"/>	Operating Instruction <input type="checkbox"/>	Computer Software <input type="checkbox"/>
Vendor Information <input type="checkbox"/>	Operating Procedure <input type="checkbox"/>	Electric Circuit Schedule <input type="checkbox"/>
OM Manual <input type="checkbox"/>	Operational Safety Requirement <input type="checkbox"/>	ICRS Procedure <input type="checkbox"/>
FSAR/SAR <input type="checkbox"/>	IEFD Drawing <input type="checkbox"/>	Process Control Manual/Plan <input type="checkbox"/>
Safety Equipment List <input type="checkbox"/>	Cell Arrangement Drawing <input type="checkbox"/>	Process Flow Chart <input type="checkbox"/>
Radiation Work Permit <input type="checkbox"/>	Essential Material Specification <input type="checkbox"/>	Purchase Requisition <input type="checkbox"/>
Environmental Impact Statement <input type="checkbox"/>	Fac. Proc. Samp. Schedule <input type="checkbox"/>	Tickler File <input type="checkbox"/>
Environmental Report <input type="checkbox"/>	Inspection Plan <input type="checkbox"/>	
Environmental Permit <input type="checkbox"/>	Inventory Adjustment Request <input type="checkbox"/>	

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number/Revision
NA		

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog. Eng. T. J. Wood <i>T. J. Wood</i>	<u>4-19-95</u>	PE	_____
Cog. Mgr. M. G. Gardner <i>M. G. Gardner</i>	<u>4-19-95</u>	QA	_____
QA W. R. Thackaberry <i>W. R. Thackaberry</i> H4-16	<u>4-19-95</u>	Safety	_____
Safety	_____	Design	_____
Environ.	_____	Environ.	_____
Other J. S. Schmid <i>J. S. Schmid</i>	<u>4/21/95</u>	Other	_____
Program R. R. Thompson <i>R. R. Thompson</i>	<u>4/19/95</u>		_____
Other S. P. Luttrell <i>S. P. Luttrell</i>	_____		_____
Other T. F. Kisenwether <i>T. F. Kisenwether</i> B41	<u>4/20/95</u>		_____
	_____	DEPARTMENT OF ENERGY	
	_____	Signature or a Control Number that tracks the Approval Signature	
	_____	M. J. Furman	<i>M. J. Furman</i>
	<u>4/20/95</u>	ADDITIONAL	
	_____	R. D. Hildebrand <i>R. D. Hildebrand</i>	
	_____	C. H. Gunion <i>C. H. Gunion</i>	



WHC-SD-EN-AP-161, Rev 0, Appendix D

Subject: 600 Area Well Decommissioning Planned for 3rd and 4th Quarter FY 1995 by WHC Well Services

This Appendix D to WHC-SD-EN-AP-161 lists Hanford Site wells selected for decommissioning during the 3rd and/or 4th quarters of FY 1995 under the well decommissioning charter of WHC Well Services.

Groundwater monitoring wells subject to the Hanford Facility RCRA Permit (Permit), Condition II.F.2, are currently in compliant condition and in active use. These wells are currently not identified as requiring decommissioning. However, the Second Responsiveness Summary for the subject permit provided by the Washington State Department of Ecology (Department) states the Department's understanding that orphan wells have been identified as those wells which are not claimed and are not in use and that these wells are considered "RCRA" wells by the Hanford Administration. Approximately 455 wells have been designated "orphan". The Department goes on to state that they (the Department) "will pursue enforcement action outside of this permit to assess and remediate and/or abandon (to Chapter 173-160 WAC standards), where applicable, those wells not being addressed by this permit."

A map of the well locations, construction summary drawings, resource protection groundwater well structure fitness for use checklists for each well, and a diagram of the decommissioning process to be followed for each well are attached. Selection of wells to be decommissioned used one or more of the following criteria:

1. No declared owner or use, i.e., orphan status (RCRA).
2. Located in the 600 Area.
3. Deep boreholes lacking annular seals that have the potential for interconnection of aquifers or upward leakage from confined aquifers.
4. Relatively near Columbia or Yakima Rivers or North of Gable Butte/Gable Mountain and/or within ~5 kilometers of the rivers.
5. Relatively near waste burial sites.
6. Wells that are a safety hazard.

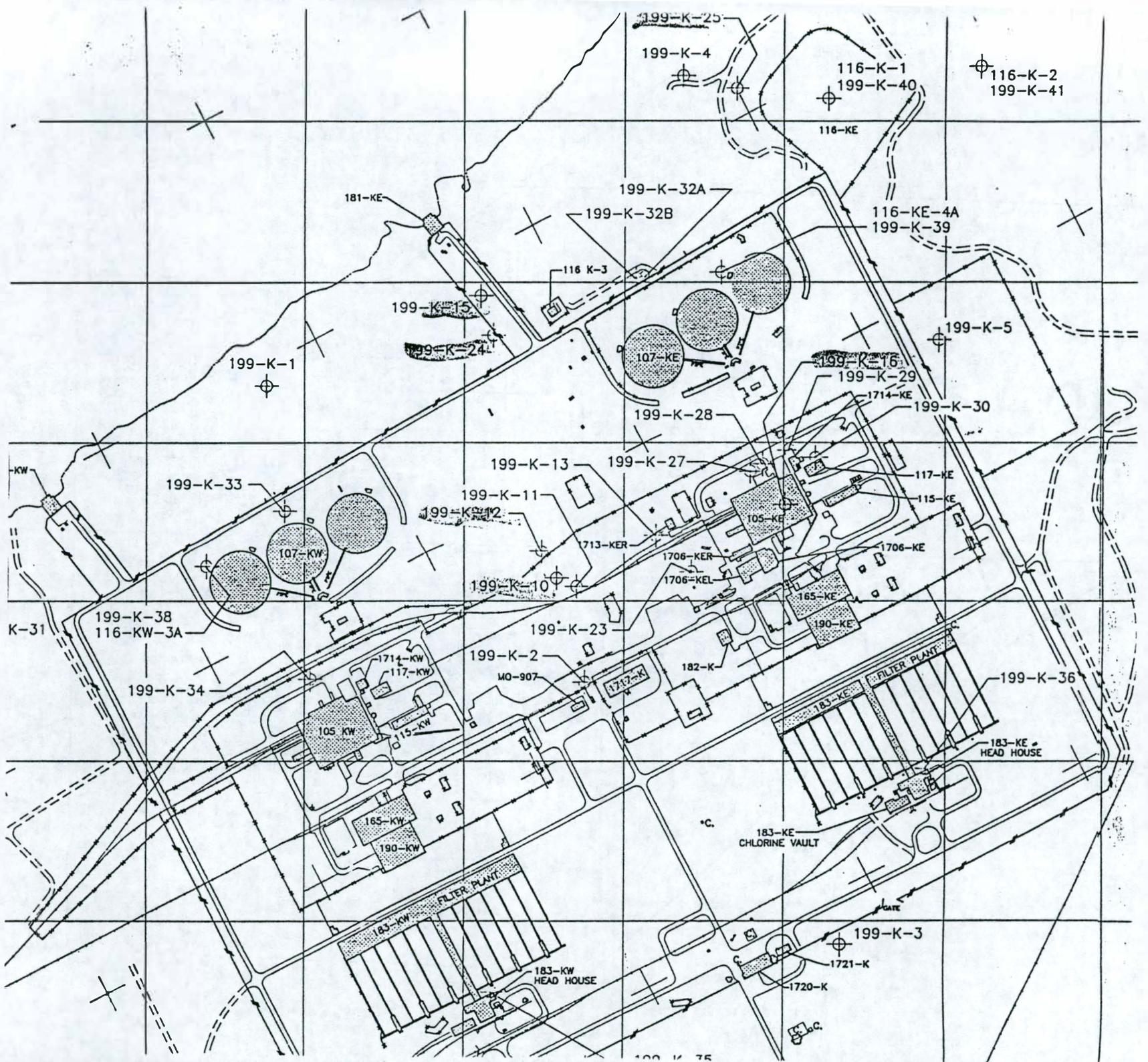
Several of the wells (43 series) listed were part of the B-Pond dike monitoring network. Their decommissioning has been requested as part of the B-Pond lobe reclamation.

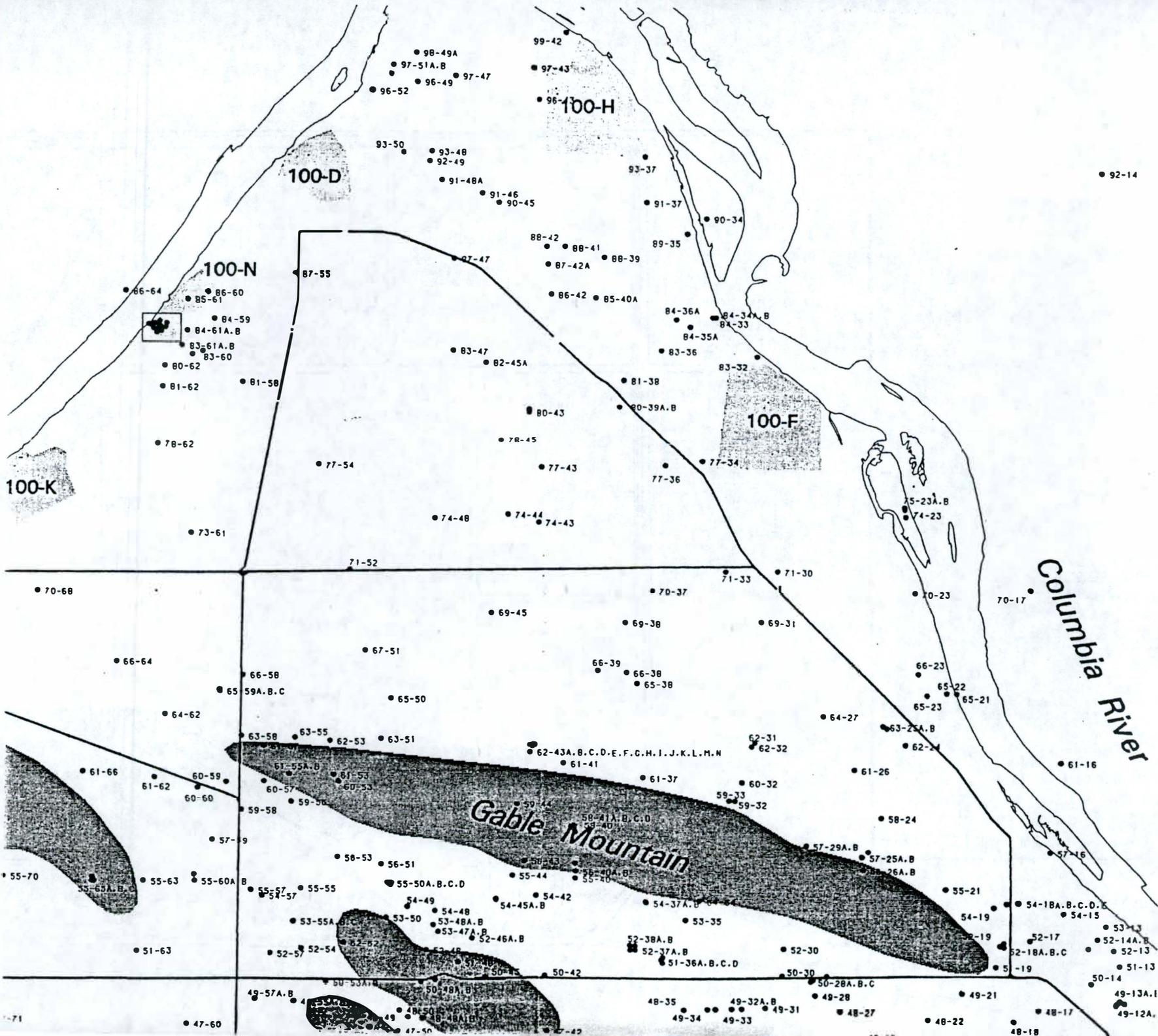
Also, twenty geotechnical borings, designated as Isolation Barrier borings, (designated B2436 through B2459) have had decommissioning requested. These borings are located in the 600 Area (East of WNP1).

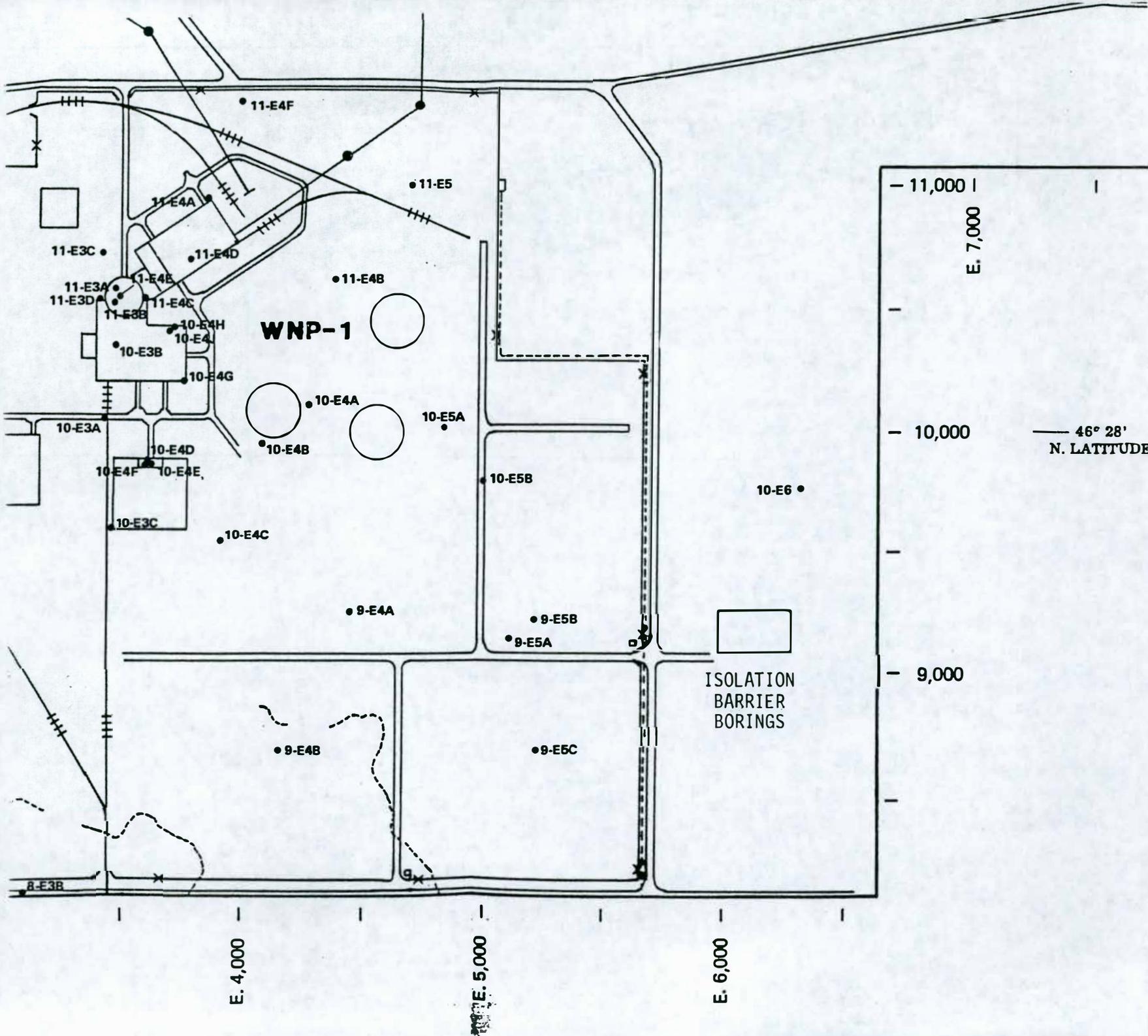
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Table 1. 600 and 100 Area Wells Recommended for Decommissioning

Well Number	Hanford Coords. N/S E/W	Date Drilled	Depth Drilled	Casing size	Well ID/ Type	Owner	Recommended Disposition
699-97-51B	N152981.72 W574436.89		28.00 ft	12.0 in	A9093/GW	orphan	decommission
699-86-64	N85780.00 -64060.00		950.00 ft	3.0 in	A9060/GW	in-use	decommission
699-80-62	N81900.00 -62000.00				A8996/UN	orphan	decommission
699-43-42	N136607.27 E577177.10	02/28/66	223.00 ft	3.5 in	A5177/GW	in-use	decommission
699-43-42H	N136707.20 E577153.19	07/31/84	50.00 ft	1.0 in	A8694/VW	orphan	decommission
699-43-42G	N136705.41 E577141.45	07/31/84	12.00 ft	1.0 in	A8693/VW	orphan	decommission
699-43-42F	N136562.80 E577191.22	07/31/84	69.00 ft	1.0 in	A8692/VW	orphan	decommission
699-43-42E	N136562.20 E577179.42	07/31/84	75.00 ft	1.0 in	A8691/VW	orphan	decommission
699-43-42D	N136635.07 E577172.83	07/31/84	46.00 ft	1.0 in	A8690/VW	orphan	decommission
699-43-42C	N136633.17 E577166.33	07/31/84	49.00 ft	1.0 in	A8689/VW	orphan	decommission
699-43-42B	N136630.82 E577158.68	07/31/84	48.00 ft	1.0 in	A8688/VW	orphan	decommission
699-43-42A	N 43110.00 W 41813.00		8.00 ft	1.0 in	A8687/VW	orphan	decommission
699-43-41D	N 42834.80 W 41172.21		8.00 ft	1.0 in	A8685/GW	orphan	decommission
699-43-41C	N 42676.73 W 41171.57	08/31/84	15.00 ft	1.0 in	A8684/GW	orphan	decommission
699-49-12A	N 48820.00 W 12257.00	03/31/44	102.00 ft	6.0 in	A8782/GW	await	decommission
699-49-12B	N 48947.00 W 12486.00	02/28/44	97.00 ft	6.0 in	A8783/GW	orphan	decommission
1-K-25	N 78000.00 W-68000.00		76.00 ft	8.0 in	A5743/GW	orphan	decommission
1-K-24	N 77000.00 W-69000.00		50.00 ft	8.0 in	A5742/GW	orphan	decommission
1-K-15	N 77160.00 W-69050.00		150.00 ft	6.0 in	A4645/GW	orphan	decommission
1B-92-01	N 9100.00 E 6075.00	08/92	41.00 ft	2.0 in	B2436/VW	orphan	decommission
1B-92-02	N 9100.00 E 6068.00	08/92	40.00 ft	2.0 in	B2437/VW	orphan	decommission
1B-92-03	N 9100.00 E 6053.00	08/92	40.00 ft	2.0 in	B2438/VW	orphan	decommission
1B-92-04	N 9100.00 E 6038.00	08/92	44.00 ft	2.0 in	B2439/VW	orphan	decommission
1B-92-05	N 9100.00 E 6023.00	08/92	40.00 ft	2.0 in	B2440/VW	orphan	decommission
1B-92-06	N 9100.00 E 6008.00	08/92	40.00 ft	2.0 in	B2441/VW	orphan	decommission
1B-92-07	N 9100.00 E 6000.00	08/92	40.00 ft	2.0 in	B2442/VW	orphan	decommission
1B-92-08	N 9115.00 E 6073.00	08/92	40.00 ft	2.0 in	B2443/VW	orphan	decommission
1B-92-09	N 9112.00 E 6066.00	08/92	40.00 ft	2.0 in	B2444/VW	orphan	decommission
1B-92-10	N 9111.00 E 6051.00	08/92	40.00 ft	2.0 in	B2445/VW	orphan	decommission
1B-92-11	N 9115.00 E 6038.00	08/92	42.00 ft	2.0 in	B2446/VW	orphan	decommission
1B-92-12	N 9111.00 E 6028.00	08/92	42.00 ft	2.0 in	B2447/VW	orphan	decommission
1B-92-13	N 9112.00 E 6010.00	08/92	41.00 ft	2.0 in	B2448/VW	orphan	decommission
1B-92-14	N 9115.00 E 6002.00	08/92	40.00 ft	2.0 in	B2449/VW	orphan	decommission
1B-92-15	N 9125.00 E 6064.00	08/92	40.00 ft	2.0 in	B2450/VW	orphan	decommission
1B-92-16	N 9122.00 E 6060.00	08/92	40.00 ft	2.0 in	B2451/VW	orphan	decommission
1B-92-17	N 9134.00 E 6052.00	08/92	40.00 ft	2.0 in	B2452/VW	orphan	decommission
1B-92-18	N 9127.00 E 6050.00	08/92	40.00 ft	2.0 in	B2453/VW	orphan	decommission
1B-92-19	N 9138.00 E 6038.00	08/92	42.00 ft	2.0 in	B2454/VW	orphan	decommission
1B-92-20	N 9130.00 E 6038.00	08/92	44.00 ft	2.0 in	B2455/VW	orphan	decommission
1B-92-21	N 9134.00 E 6024.00	08/92	42.00 ft	2.0 in	B2456/VW	orphan	decommission
1B-92-22	N 9127.00 E 6026.00	08/92	42.00 ft	2.0 in	B2457/VW	orphan	decommission
1B-92-23	N 9125.00 E 6012.00	08/92	41.00 ft	2.0 in	B2458/VW	orphan	decommission
1B-92-24	N 9122.00 E 6016.00	08/92	41.00 ft	2.0 in	B2459/VW	orphan	decommission







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Fitness-for-Intended Use
Evaluation Recommendations
For Hanford Site 600 and 100 Area Wells

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. 699-97-51B
	Page 1 of 2
<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> , No potential user identified</p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u> , No use identified</p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> , No documentation of annular seal</p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> , Well terminates within top of unconfined aquifer</p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> , No seals documented</p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> , No surface seal documented</p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u> , Capped and locked</p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> , No annular seal documented</p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> , Penetrates unconfined aquifer only</p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> , Drilled before applicable date of WAC 173-303</p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u> , NO permanent identification</p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> , No surface seal documented</p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> , Locking cap</p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>NO</u> , None present</p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> , Not applicable</p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>10a. Screened interval documented? <input type="checkbox"/> <u>No</u> , Not documented</p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u> , Not documented</p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Cable tool nom.</u> Fluid Used: <u>Not documented</u> Driller's Name: <u>Not documented</u> Drilling Company: <u>Not documented</u> Date Started: <u>Not documented</u>	Sample Method: <u>Not documented</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>Not documented</u>	WELL NUMBER: <u>699-97-51B</u> <u>A9093</u> TEMPORARY <u>699-48-7</u> Hanford WELL NO: <u>699-97-51A</u> Coordinates: N/S <u>N 96,793</u> E/W <u>W 50,575</u> State Coordinates: N <u>152,981</u> E <u>574,436</u> Start Card #: <u>Not documented</u> T <u>14</u> R <u>26E</u> S <u>14</u> Elevation Ground surface: <u>406.06-ft</u>
Depth to water: <u>Not documented</u> (Ground surface) <u>25.4-ft</u> 20Jan92 GENERALIZED STRATIGRAPHY Not Documented No log available		Elevation of reference point: [<u>407.46-ft</u>] (top of casing) Height of reference point above [<u>1.40-ft</u>] ground surface Depth of surface seal [<u>ND</u>] No surface seal documented: 13-in nominal hole, <u>0-28-ft</u> Hole diameter, 12-in ID galvanized steel <u>+1.4-28-ft</u> culvert. Borehole drilled depth: [<u>28.0-ft</u>] DTB=Depth to bottom, <u>28.9-ft</u> 20Jan92
Drawing By: <u>TJW/6N97W51B.ASB</u> Date : <u>08Mar95</u> Reference : <u>HANFORD WELLS</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Cable tool nom.</u> Drilling Fluid Used: <u>Not documented</u> Driller's Name: <u>Not documented</u> Drilling Company: <u>Not documented</u> Date Started: <u>Not documented</u>	Sample Method: <u>Not documented</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>Not documented</u>	WELL NUMBER: <u>699-97-51B</u> A9093 TEMPORARY <u>699-48-7</u> WELL NO: <u>699-97-51A</u> Hanford Coordinates: N/S <u>N 96.793</u> E/W <u>W 50.575</u> State Coordinates: N <u>152.981</u> E <u>574.436</u> Start Card #: <u>Not documented</u> T <u>14</u> R <u>26E</u> S <u>14</u> Elevation Ground surface: <u>406.06-ft</u>
Depth to water: <u>Not documented</u> (Ground surface) <u>25.4-ft</u> 20Jan92 DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface) No log available [1] Establish depth to bottom clean out [2] Attempt to pull casing, if unable, perforate [3] Perforate from 3-ft to total depth if applicable [4] Grout with cement as casing as pulled, or after perforation [5] Cut casing at 3-ft place cement and brass pin and plate fill to grade NOTE: Order of work to be determined by field conditions.	<p>The diagram shows a vertical well casing. At the top, step [5] indicates cutting the casing. Below that, step [4] shows grouting. Step [3] shows perforation. Step [2] shows an attempt to pull the casing. Step [1] shows establishing the depth to bottom clean out. A 'DTB' (Depth to Bottom) marker is shown at the bottom of the casing. The casing is labeled as 12-in ID galvanized steel culvert.</p>	Elevation of reference point: [407.46-ft] (top of casing) Height of reference point above [1.40-ft] ground surface Depth of surface seal [ND] No surface seal documented: 13-in nominal hole, 0~28-ft Hole diameter, 12-in ID galvanized steel +1.4~28-ft culvert. Borehole drilled depth: [28.0-ft] DTB=Depth to bottom, 28.9-ft 20Jan92
Drawing By: <u>TJW/6N97W51B.PLN</u> Date : <u>23Mar95</u> Reference : <u>HANFORD WELLS</u>		

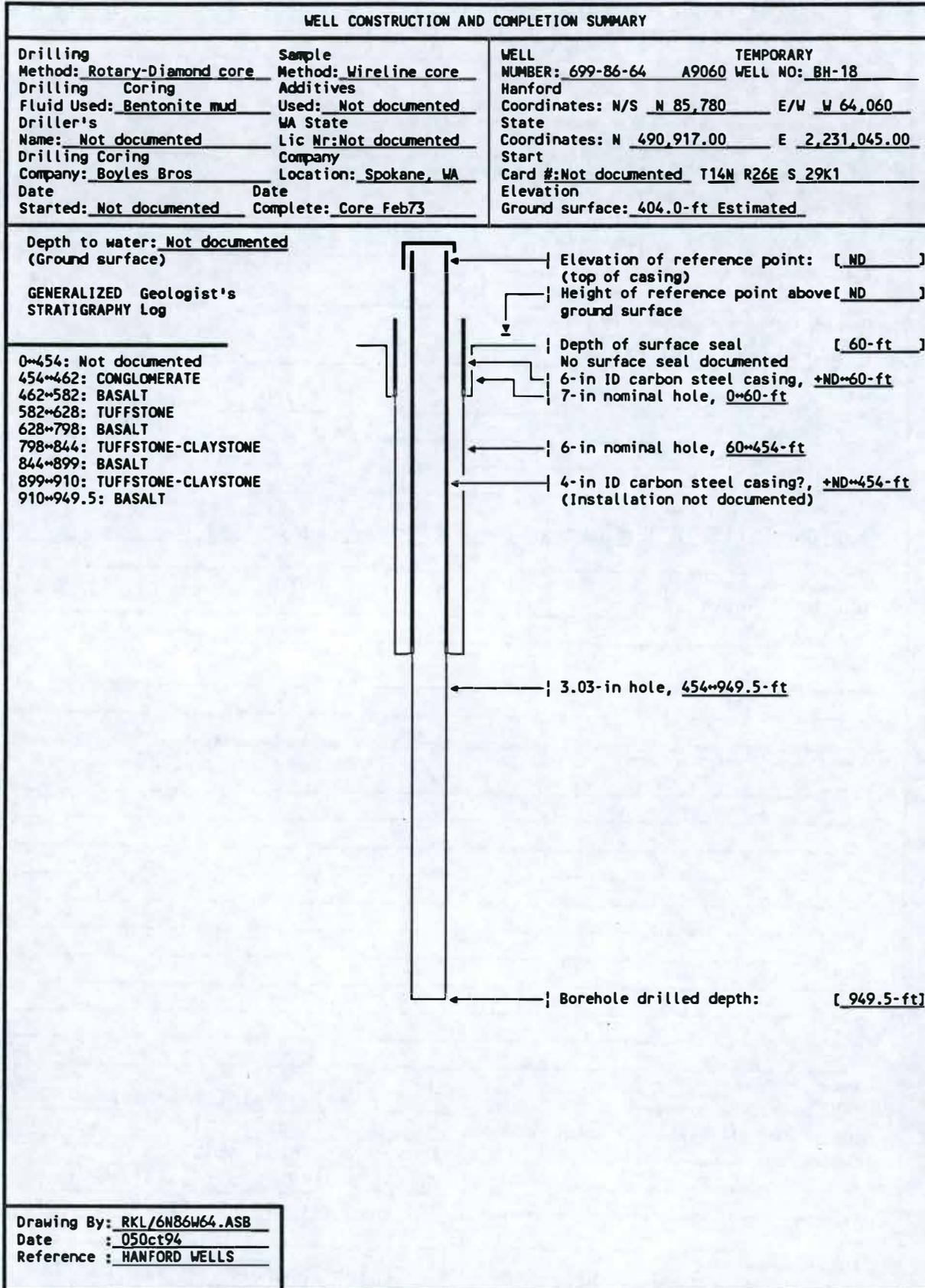
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-86-64</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>NO</u>) No potential user identified	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) No documented annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> <u>No</u>) Well may connect aquifers	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) No seals documented, well may interconnect aquifers	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>NO</u>) No seals documented	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>No</u>) Unknown	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>No</u>) May allow interconnecting of aquifers	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>NB/</u>) Drilled prior to applicable date	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> <u>N/A</u>) Not applicable	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) n	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) Not applicable	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> <u>Yes</u>) Has drillers log	

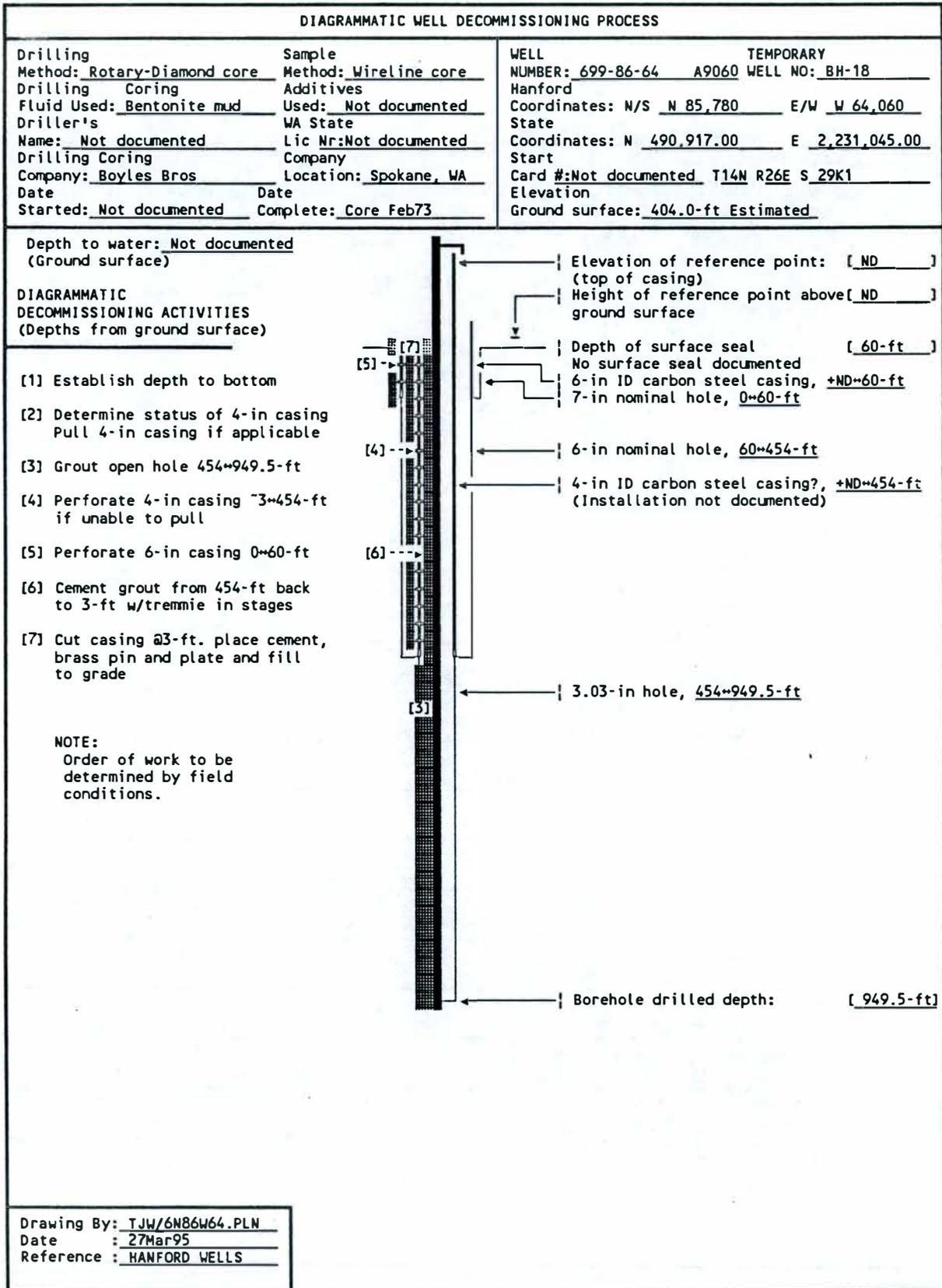
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-86-64</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used: Logs: Driller's: <u>Boyles Bros.</u> Date: <u>02/00/73</u> Company: _____ Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M.A. Chamness and J.K. Merz. August 1993</u> _____ Databases: <u>WHC Well Services</u> _____ Field Check: _____ Date: _____ Company: _____ Other: _____ _____</p> <p>14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____</p> <p>15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well may interconnect</u> Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u> Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u> Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u> Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u> Other _____ <input type="checkbox"/> _____) _____</p> <p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>03/27/95</u></p>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-80-62</u>
Page 1 of 2	
<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> , <u>No potential user identified</u></p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u> , <u>No use identified</u></p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> , <u>No documented annular seal</u></p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> , <u>Well terminates within upper sediments</u></p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> , <u>No seals documented</u></p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> , <u>No surface seal documented</u></p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>No</u> , <u>Not capped</u></p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> , <u>No annular seal</u></p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u> , <u>No permanent identification</u></p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> , <u>No surface seal documented</u></p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>No</u> , <u>Not capped or protected</u></p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>No</u> , <u>No posts or pad</u></p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u> , <u>Not documented</u></p>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-80-62</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used:</p> <p>Logs:</p> <p>Driller's: <u>Not documented</u> Date: _____ Company: _____</p> <p>Geologist: _____ Date: _____ Company: _____</p> <p>Geophysical: _____ Date: _____ Company: _____</p> <p>Television: _____ Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>Well Services</u> Date: <u>03/09/95</u> Company: <u>WHC</u></p> <p>Other: _____ _____ _____</p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____ _____ _____ _____ _____ _____ _____ _____ _____ _____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u></p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u></p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u></p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>well has no identified need</u></p> <p>Other _____ (_____) _____</p>	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Air Rotary</u> Drilling Fluid Used: <u>Not documented</u> Driller's Name: <u>Not documented</u> Drilling Company: <u>Not documented</u> Date Started: <u>Not documented</u>	Sample Method: _____ Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>Not documented</u>	WELL NUMBER: <u>699-80-62</u> TEMPORARY WELL NO: <u>A8996</u> Hanford Coordinates: N/S <u>N 81,900</u> E/W <u>W 62,000</u> State Start Coordinates: N _____ E _____ Card #: <u>Not documented</u> T <u>14N</u> R <u>26E</u> S <u>33J2</u> Elevation Ground surface: <u>438.1-ft</u> Estimated
Depth to water: <u>Not documented</u> (Ground surface): <u>Not documented</u> GENERALIZED STRATIGRAPHY Driller's Log <u>Not documented</u>	<p>The diagram is a vertical cross-section of a well. At the top, a horizontal line represents the ground surface. Below it, a vertical line represents the casing, with a label '5-in ID carbon steel casing, +1.9~30-ft'. Inside the casing, a horizontal line represents the surface seal, with a label 'Depth of surface seal [ND]' and 'No surface seal documented:'. Below the casing, a horizontal line represents the hole, with a label '6-in nominal hole, 0~30-ft'. At the bottom of the hole, a shaded area represents the bottom of the borehole, with a label 'DTB' and 'Borehole drilled depth: [30-ft.]'. To the right of the diagram, several labels with arrows point to specific features: 'Elevation of reference point: [440.00-ft] (top of casing)', 'Height of reference point above [1.9-ft] ground surface', 'Depth of surface seal [ND]', '5-in ID carbon steel casing, +1.9~30-ft', '6-in nominal hole, 0~30-ft', and 'Borehole drilled depth: [30-ft.]'.</p>	
DTB=Depth to bottom, 28.1-ft, 9Mar95		
Drawing By: <u>TJW/6N80W62 .ASB</u> Date : <u>13Mar95</u> Reference : <u>HANFORD WELLS</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS			
Drilling Method: <u>Air Rotary</u> Drilling Fluid Used: <u>Not documented</u> Driller's Name: <u>Not documented</u> Drilling Company: <u>Not documented</u> Date Started: <u>Not documented</u>	Sample Method: _____ Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>Not documented</u>	WELL NUMBER: <u>699-80-62</u> TEMPORARY WELL NO: <u>A8996</u> Hanford Coordinates: N/S <u>N 81,900</u> E/W <u>W 62,000</u> State Coordinates: N _____ E _____ Start Card #: <u>Not documented</u> T <u>14N</u> R <u>26E</u> S <u>33J2</u> Elevation Ground surface: <u>438.1-ft Estimated</u>	
Depth to water: <u>Not documented</u> (Ground surface) <u>Not documented</u>			
DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)			
[1] Establish depth to bottom [2] Perforate casing from 3-30-ft [3] Grout with cement from 3-30-ft [4] Cut casing at 3-ft. place cement, brass pin and plate and fill to grade	<p>The diagram shows a vertical well casing. At the top, an arrow points to the 'Elevation of reference point (top of casing)'. Below this, another arrow indicates the 'Height of reference point above ground surface'. The casing is shown with a section of perforation between 3 and 30 feet depth. Activity [1] is at the bottom, [2] is the perforation zone, [3] is the grout zone, and [4] is the final cut and fill. The 'Borehole drilled depth' is marked as 30 feet. The 'DTB' (Depth to Bottom) is indicated at the end of the casing.</p>	Elevation of reference point: <u>[440.00-ft]</u> (top of casing) Height of reference point above <u>[1.9-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented: 5-in ID carbon steel casing, <u>+1.9-30-ft</u> 6-in nominal hole, <u>0-30-ft</u> Borehole drilled depth: <u>[30-ft.]</u>	
NOTE: Order of work to be determined by field conditions.		DTB=Depth to bottom, 28.1-ft, 9Mar95	
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"> Drawing By: <u>TJW/6N80W62 .PLN</u> Date : <u>27Mar95</u> Reference : <u>HANFORD WELLS</u> </td> </tr> </table>			Drawing By: <u>TJW/6N80W62 .PLN</u> Date : <u>27Mar95</u> Reference : <u>HANFORD WELLS</u>
Drawing By: <u>TJW/6N80W62 .PLN</u> Date : <u>27Mar95</u> Reference : <u>HANFORD WELLS</u>			

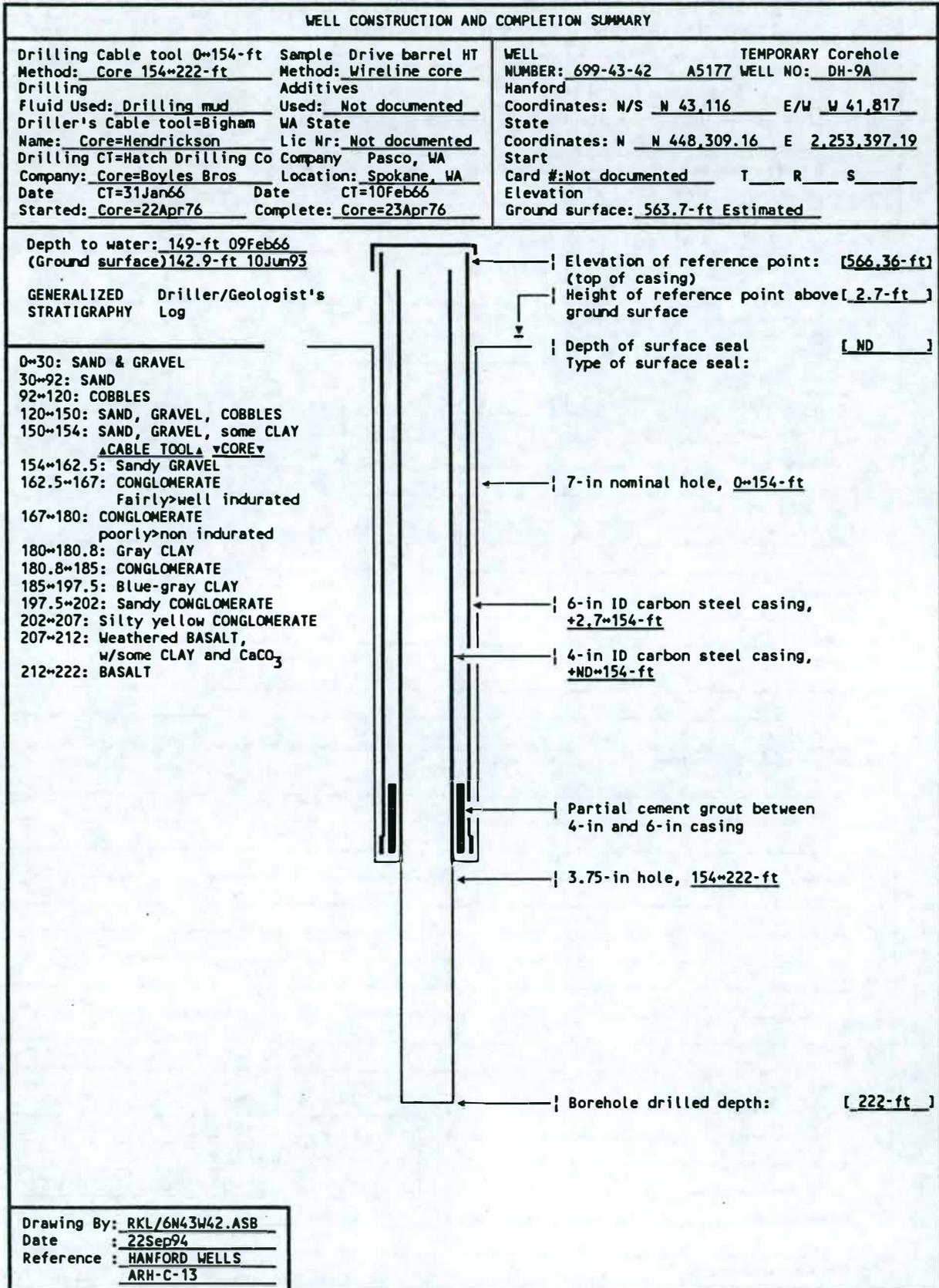
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within first basalt flow</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Drilled prior to applicable date of WAC 173-303</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No Permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>No</u>) <u>No posts of surface pad</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>Yes</u>) <u>Drillers log</u>	

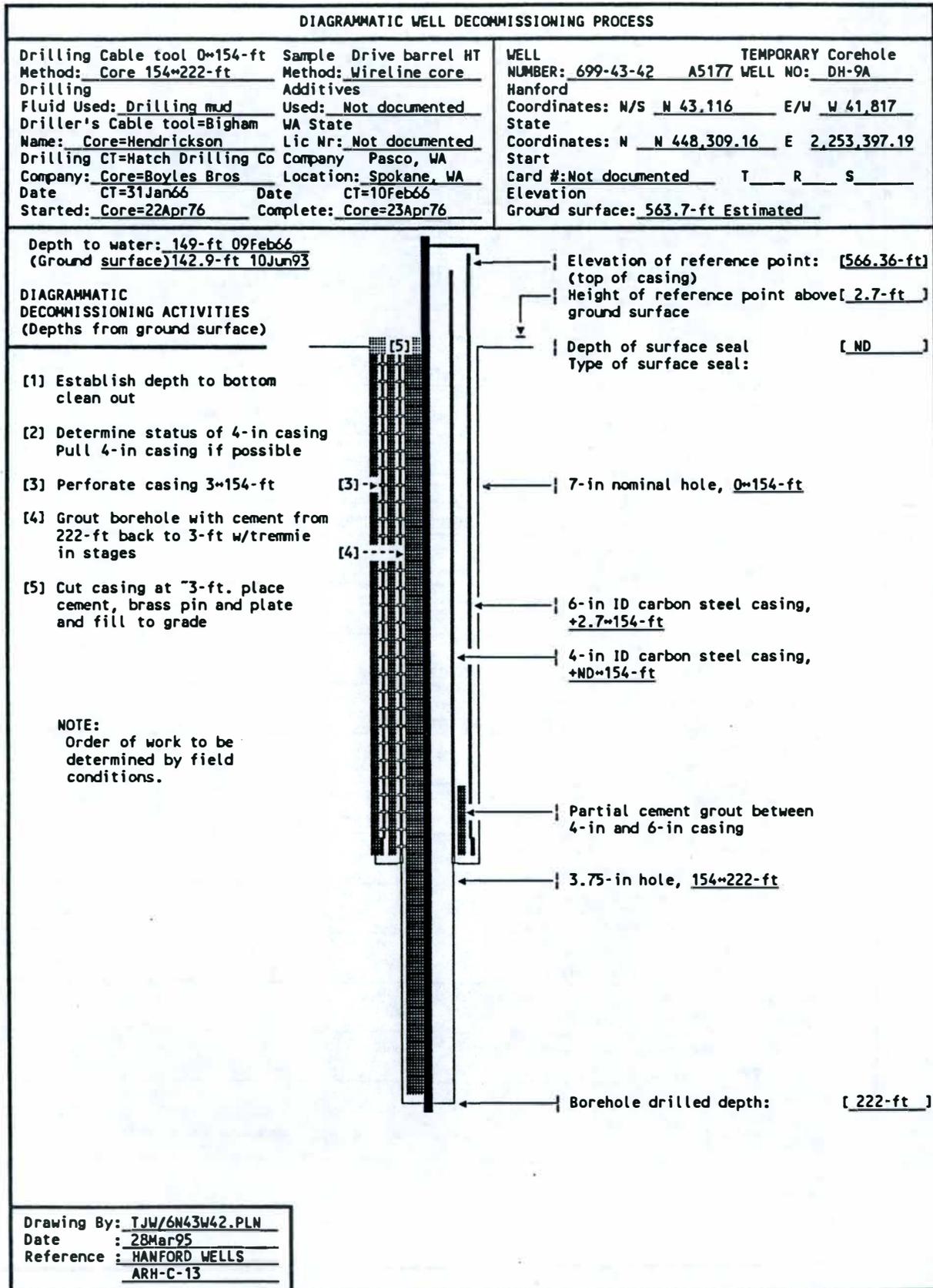
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>13. Data Sources Used:</p> <p>Logs:</p> <table style="width:100%; border: none;"> <tr> <td style="width:50%;">Driller's: <u>Hatch Drilling, Boyles Bros.</u></td> <td style="width:15%;">Date: <u>04/23/76</u></td> <td style="width:35%;">Company: <u>CT & Core</u></td> </tr> <tr> <td>Geologist: _____</td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Geophysical: _____</td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Television: _____</td> <td>Date: _____</td> <td>Company: _____</td> </tr> </table> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>Well Services</u> Date: <u>03/03/95</u> Company: <u>WHC</u></p> <p>Other: _____ _____</p>		Driller's: <u>Hatch Drilling, Boyles Bros.</u>	Date: <u>04/23/76</u>	Company: <u>CT & Core</u>	Geologist: _____	Date: _____	Company: _____	Geophysical: _____	Date: _____	Company: _____	Television: _____	Date: _____	Company: _____						
Driller's: <u>Hatch Drilling, Boyles Bros.</u>	Date: <u>04/23/76</u>	Company: <u>CT & Core</u>																	
Geologist: _____	Date: _____	Company: _____																	
Geophysical: _____	Date: _____	Company: _____																	
Television: _____	Date: _____	Company: _____																	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>																			
<p>15. Status</p> <table style="width:100%; border: none;"> <tr> <td style="width:45%;">Well is acceptable for intended use</td> <td style="width:10%;"><input type="checkbox"/> <u>No</u></td> <td style="width:45%;"><input type="checkbox"/> <u>Well lacks seals</u></td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td><input type="checkbox"/> <u>N/A</u></td> <td><input type="checkbox"/> <u>Not applicable</u></td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td><input type="checkbox"/> <u>Not applicable</u></td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td><input type="checkbox"/> <u>Well has no identified user</u></td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td><input type="checkbox"/> <u>Yes</u></td> <td><input type="checkbox"/> <u>Well has no identified need</u></td> </tr> <tr> <td>Other _____</td> <td><input type="checkbox"/> _____</td> <td><input type="checkbox"/> _____</td> </tr> </table> <p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u></p>		Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	<input type="checkbox"/> <u>Well lacks seals</u>	Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>N/A</u>	<input type="checkbox"/> <u>Not applicable</u>	Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	<input type="checkbox"/> <u>Not applicable</u>	Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	<input type="checkbox"/> <u>Well has no identified user</u>	Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	<input type="checkbox"/> <u>Well has no identified need</u>	Other _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	<input type="checkbox"/> <u>Well lacks seals</u>																	
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>N/A</u>	<input type="checkbox"/> <u>Not applicable</u>																	
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	<input type="checkbox"/> <u>Not applicable</u>																	
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	<input type="checkbox"/> <u>Well has no identified user</u>																	
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	<input type="checkbox"/> <u>Well has no identified need</u>																	
Other _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____																	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42H</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> No <input checked="" type="checkbox"/> No potential user identified	
3. Is well presently in use? <input type="checkbox"/> No <input checked="" type="checkbox"/> No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> No <input checked="" type="checkbox"/> No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Well terminates within upper sediments	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> No <input checked="" type="checkbox"/> No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> No <input checked="" type="checkbox"/> No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Capped and locked	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> No <input checked="" type="checkbox"/> No surface or annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
6c. Well properly identified? <input type="checkbox"/> No <input checked="" type="checkbox"/> No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Capped, no posts or pad present	
7a. Well capped and protected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Capped and locked	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> No <input checked="" type="checkbox"/> No posts, surface pad or cover installed	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
10a. Screened interval documented? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Enclosed asbuilt description	
10b. Vertical lithology documented? <input type="checkbox"/> No <input checked="" type="checkbox"/> Not documented	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42H</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used: Logs: Driller's: <u>J. Bultena, Onwego Drilling Co.</u> Date: <u>7-26-84</u> Company: _____ Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> Field Check: <u>Well Services</u> Date: <u>03/07/95</u> Company: <u>WHC</u> Other: _____ _____ _____</p> <p>14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____</p> <p>15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well has no further use</u> Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u> Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u> Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified use</u> Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u> Other <u>Former piezometer inst.wells</u> <input type="checkbox"/> _____) <u>no longer needed</u></p> <p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY																																			
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>24Jul84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Location: <u>Kennewick, WA</u> Date Complete: <u>26Jul84</u>	WELL NUMBER: <u>699-43-42H</u> <u>A8694</u> TEMPORARY WELL NO: <u>699-43-42B</u> Hanford Coordinates: <u>N/S N 43,368.19</u> <u>E/W W 41,789.84</u> State Coordinates: N <u>448,563</u> E <u>2,253,424</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface: <u>562.5-ft Estimated</u>																																	
Depth to water: <u>Not documented</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log No lithologic description given	<p>The diagram shows a vertical well casing with various components labeled on the right side. From top to bottom, the components are: a reference point at 565.10-ft (top of casing), a surface seal at 2.6-ft above ground surface, a 6-in ID carbon steel casing from 2.6-ft to 18-ft, a bentonite plug from 18-ft to 21-ft, a sand pack from 21-ft to 29-ft, a 1-in piezometer from 29-ft to 43-ft, a filler section from 43-ft to 48-ft, a second bentonite plug from 48-ft to 51-ft, a second sand pack from 51-ft to 49-ft, and a second 1-in piezometer from 49-ft to 50-ft. The total borehole depth is 51.0-ft.</p>																																		
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;">Elevation of reference point: <u>[565.10-ft]</u> (top of casing)</td> <td style="width: 33%;">Height of reference point above <u>[2.6-ft]</u> ground surface</td> </tr> <tr> <td></td> <td>Depth of surface seal <u>[ND]</u> No surface seal documented:</td> <td></td> </tr> <tr> <td></td> <td>6-in ID carbon steel casing, <u>+2.6*not documented</u> (Protective casing only)</td> <td></td> </tr> <tr> <td></td> <td>Bentonite plug, <u>13*18-ft</u></td> <td></td> </tr> <tr> <td></td> <td>Sand pack, <u>18*21-ft</u></td> <td></td> </tr> <tr> <td></td> <td>1-in piezometer, <u>+ND*20-ft, perforated, 19*20-ft</u></td> <td></td> </tr> <tr> <td></td> <td>Filler not documented, <u>21*43-ft</u></td> <td></td> </tr> <tr> <td></td> <td>Bentonite plug, <u>43*48-ft</u></td> <td></td> </tr> <tr> <td></td> <td>Sand pack, <u>48*51-ft</u></td> <td></td> </tr> <tr> <td></td> <td>1-in piezometer, <u>+ND*50.0, ft, perforated, 49*50-ft</u></td> <td></td> </tr> <tr> <td></td> <td>Borehole drilled depth: <u>[51.0-ft]</u></td> <td></td> </tr> </table>				Elevation of reference point: <u>[565.10-ft]</u> (top of casing)	Height of reference point above <u>[2.6-ft]</u> ground surface		Depth of surface seal <u>[ND]</u> No surface seal documented:			6-in ID carbon steel casing, <u>+2.6*not documented</u> (Protective casing only)			Bentonite plug, <u>13*18-ft</u>			Sand pack, <u>18*21-ft</u>			1-in piezometer, <u>+ND*20-ft, perforated, 19*20-ft</u>			Filler not documented, <u>21*43-ft</u>			Bentonite plug, <u>43*48-ft</u>			Sand pack, <u>48*51-ft</u>			1-in piezometer, <u>+ND*50.0, ft, perforated, 49*50-ft</u>			Borehole drilled depth: <u>[51.0-ft]</u>	
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Drawing By: <u>RKL/6N43W42H.ASB</u>																																			
Date: <u>22Sep94</u>																																			
Reference: <u>HANFORD WELLS</u>																																			

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS

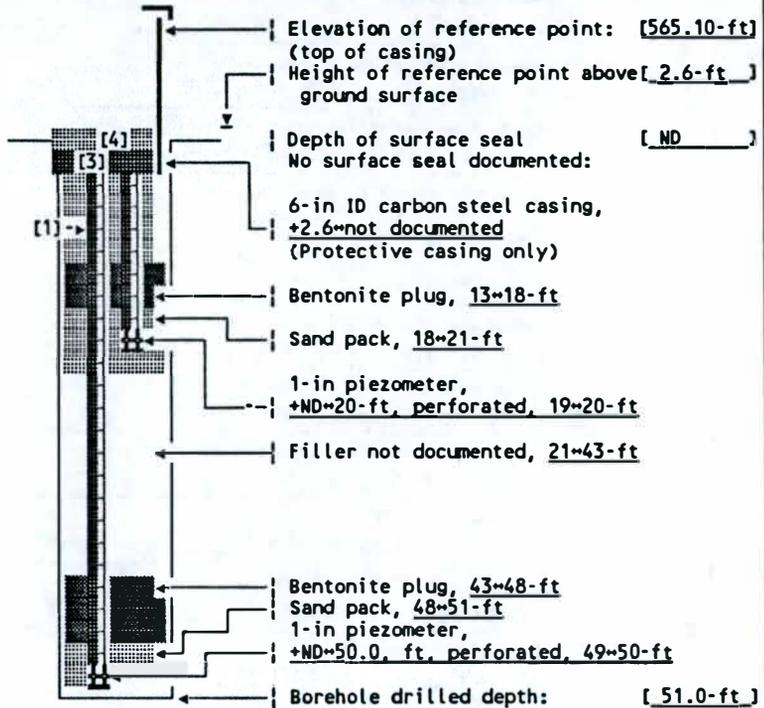
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>24Jul84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Kennewick, WA</u> Date Complete: <u>26Jul84</u>	WELL TEMPORARY NUMBER: <u>699-43-42H A8694</u> WELL NO: <u>699-43-42B</u> Hanford Coordinates: <u>N/S N 43,368.19 E/W W 41,789.84</u> State Coordinates: <u>N 448,563 E 2,253,424</u> Start Card #: <u>Not documented</u> T ___ R ___ S ___ Elevation Ground surface: <u>562.5-ft Estimated</u>
--	--	--

Depth to water: Not documented
(Ground surface)

DIAGRAMMATIC DECOMMISSIONING ACTIVITIES
(Depths from ground surface)

- [1] Grout each piezometer tube with cement, back to surface
- [2] Pull protective surface casing
- [3] Cut piezometer tubes at 3-ft
- [4] Place cement, brass pin and plate, fill to grade

NOTE:
Order of work to be determined by field conditions.

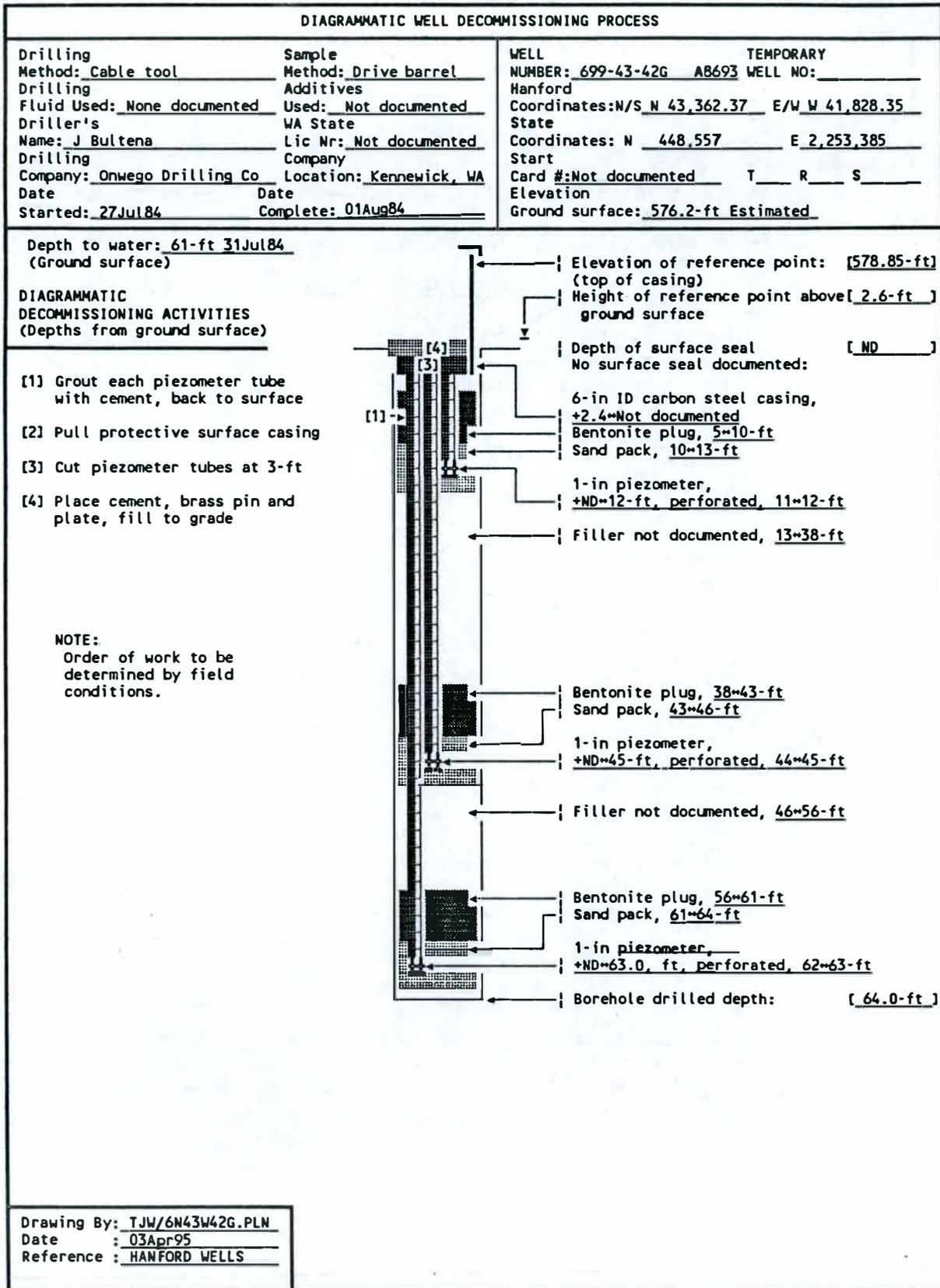


Drawing By: TJW/6N43W42H.PLN
 Date: 03Apr95
 Reference: HANFORD WELLS

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42G</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediments</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No surface or annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>Yes</u>) <u>Capped, no posts or pad present</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>No</u>) <u>No posts, surface pad or cover installed</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>Yes</u>) <u>Enclosed asbuilt discription</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u>) <u>Not documented</u>	

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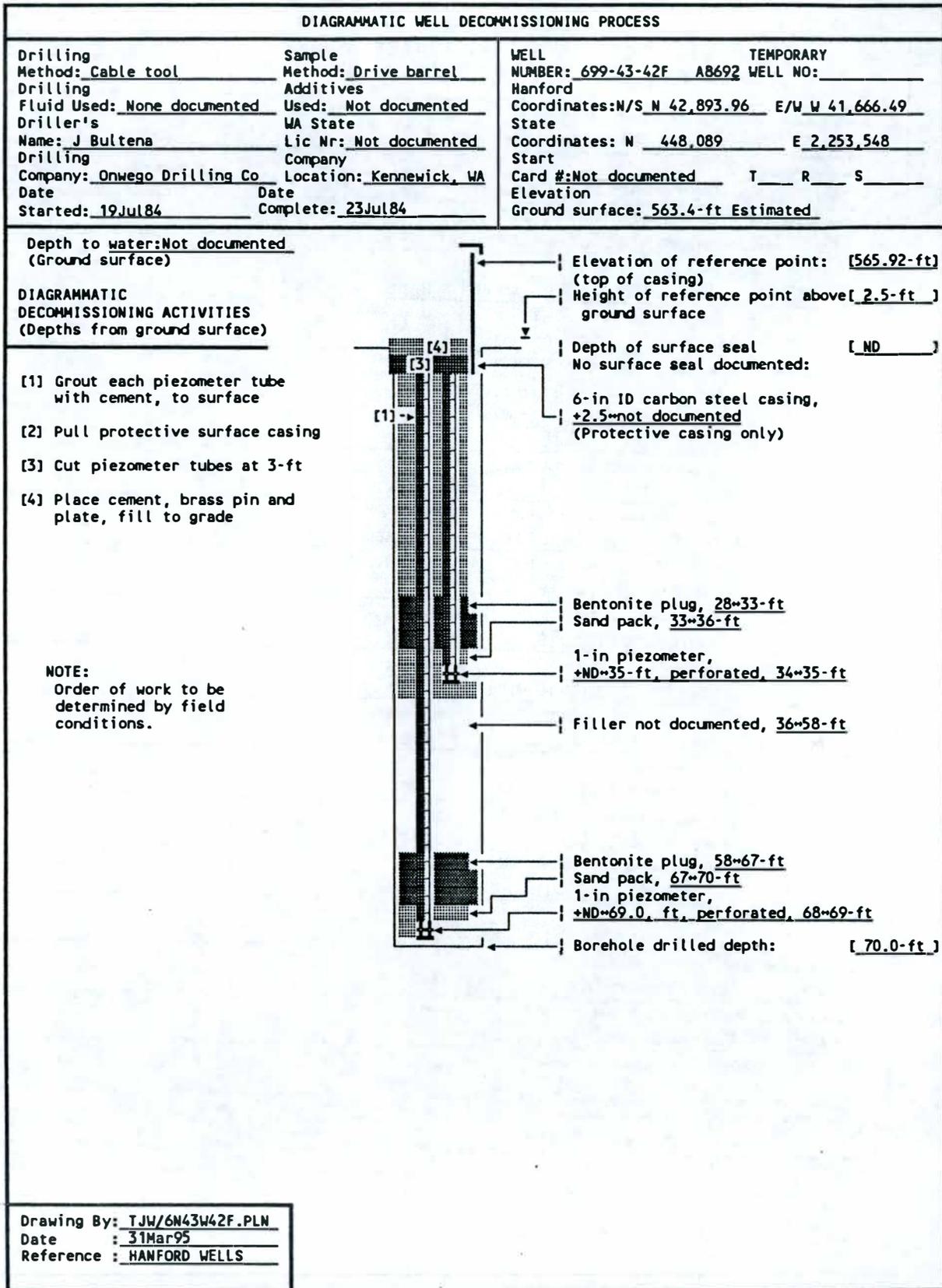
WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42F</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> No <input type="checkbox"/> No potential user identified	
3. Is well presently in use? <input type="checkbox"/> No <input type="checkbox"/> No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> No <input type="checkbox"/> No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> N/A <input type="checkbox"/> Well terminates within upper sediments	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> No <input type="checkbox"/> No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> Yes <input type="checkbox"/> Capped and locked	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> No <input type="checkbox"/> No surface or annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
6c. Well properly identified? <input type="checkbox"/> No <input type="checkbox"/> No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> Yes <input type="checkbox"/> Capped, no posts or pad present	
7a. Well capped and protected? <input type="checkbox"/> Yes <input type="checkbox"/> Capped and locked	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> No <input type="checkbox"/> No posts, surface pad or cover installed	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10a. Screened interval documented? <input type="checkbox"/> Yes <input type="checkbox"/> Enclosed asbuilt discription	
10b. Vertical lithology documented? <input type="checkbox"/> No <input type="checkbox"/> Not documented	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>19Jul84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Location: <u>Kernewick, WA</u> Date Complete: <u>23Jul84</u>	WELL NUMBER: <u>699-43-42F</u> <u>A8692</u> TEMPORARY WELL NO: _____ Hanford Coordinates: <u>N/S N 42,893.96</u> <u>E/W W 41,666.49</u> State Coordinates: N <u>448,089</u> E <u>2,253,548</u> Start Card #: <u>Not documented</u> T _____ R _____ S _____ Elevation Ground surface: <u>563.4-ft</u> Estimated
Depth to water: <u>Not documented</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log No lithologic description given Hit water @ 69-ft	<p>The diagram illustrates a well construction with the following components and depths:</p> <ul style="list-style-type: none"> Elevation of reference point (top of casing): [565.92-ft] Height of reference point above ground surface: [2.5-ft] Depth of surface seal: [ND] No surface seal documented: [ND] 6-in ID carbon steel casing, +2.5-not documented (Protective casing only) Bentonite plug, 28-33-ft Sand pack, 33-36-ft 1-in piezometer, +ND-35-ft, perforated, 34-35-ft Filler not documented, 36-58-ft Bentonite plug, 58-67-ft Sand pack, 67-70-ft 1-in piezometer, +ND-69.0, ft, perforated, 68-69-ft Borehole drilled depth: [70.0-ft] 	
Drawing By: <u>RKL/6N43W42F.ASB</u> Date: <u>22Sep94</u> Reference: <u>HANFORD WELLS</u>		

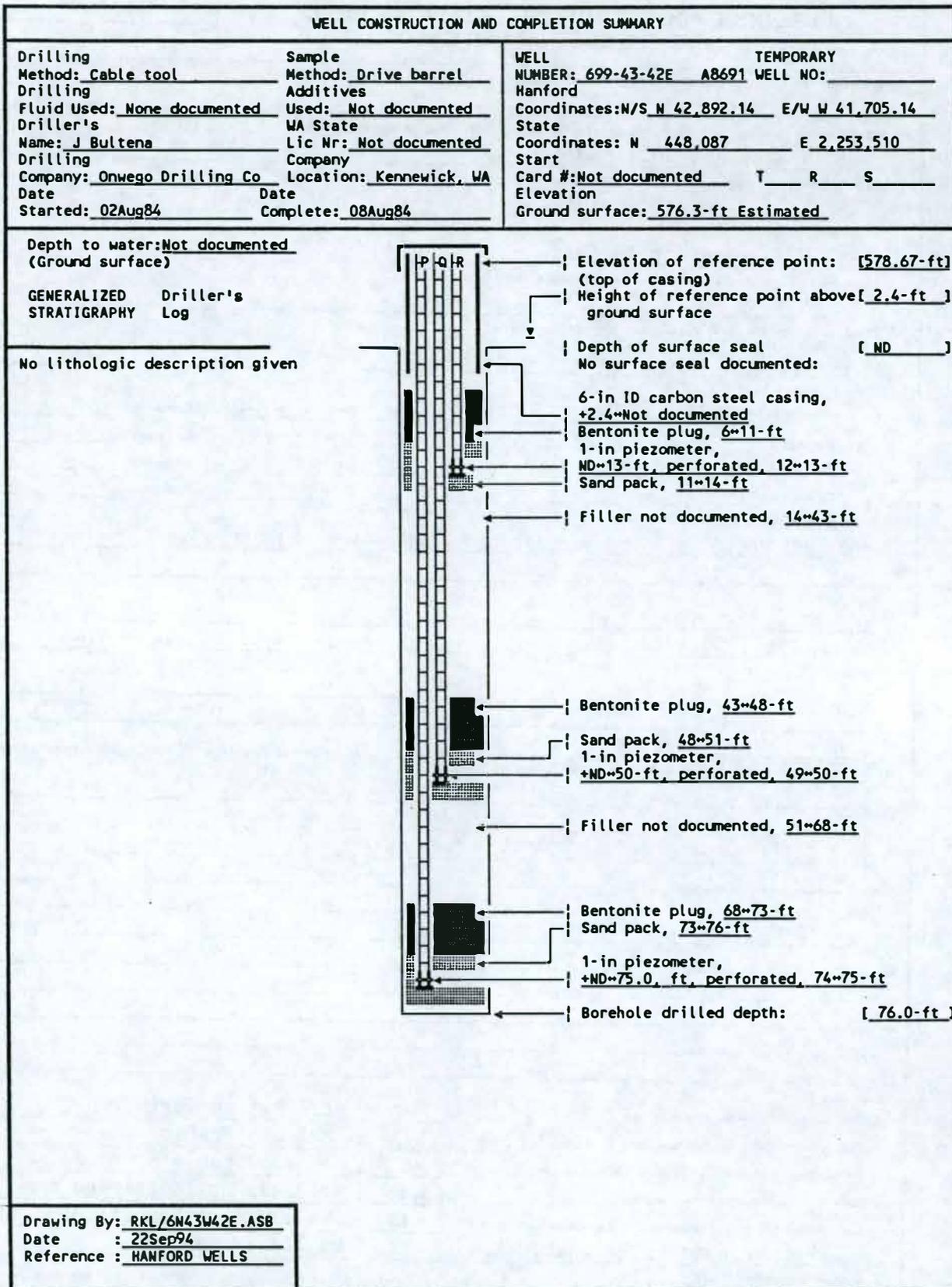
WHC-SD-EN-AP-161, Rev 0, Appendix D



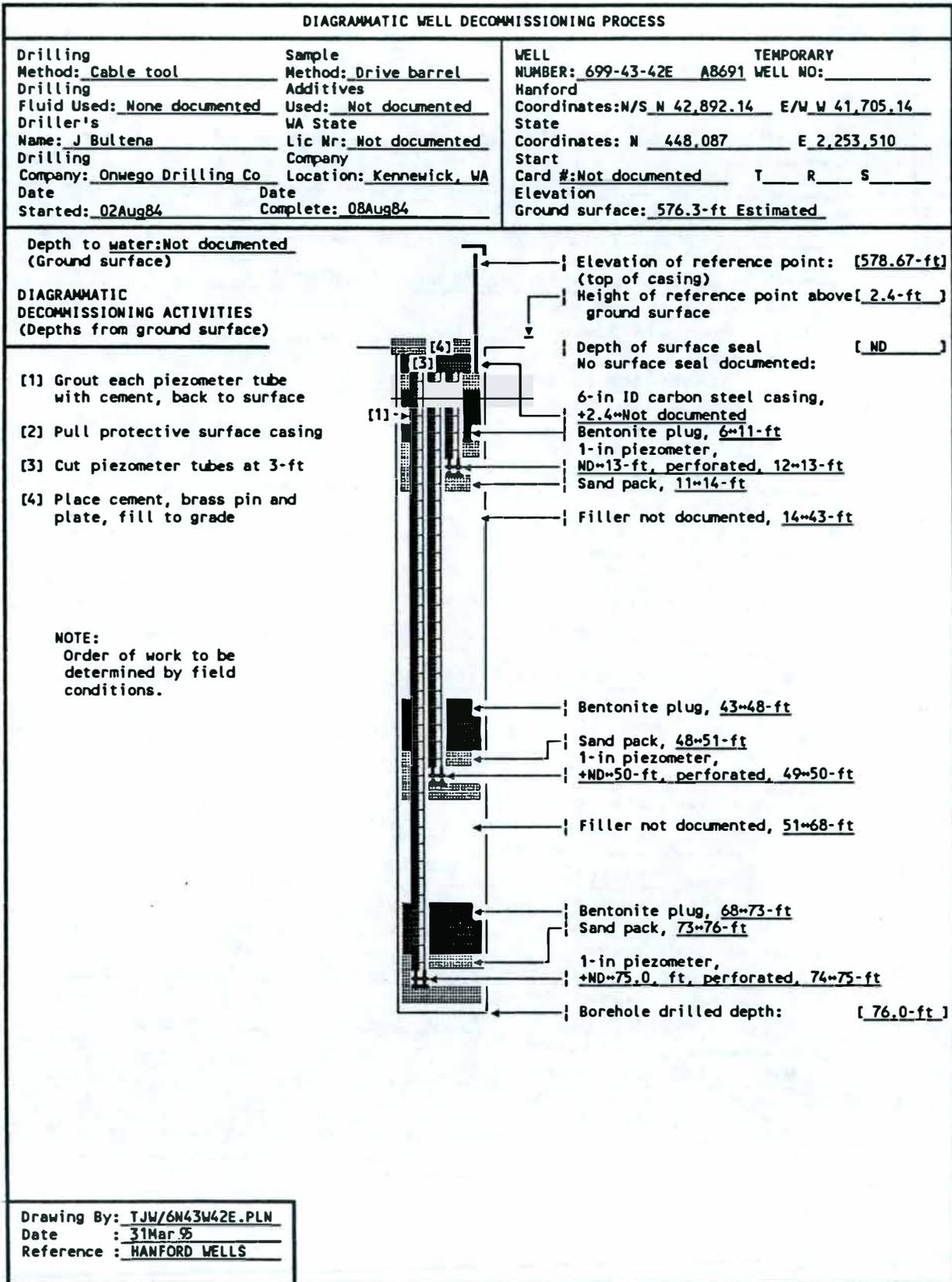
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42E</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediments</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No surface or annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>Yes</u>) <u>Capped, no posts or pad present</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>No</u>) <u>No posts, surface pad or cover installed</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>Yes</u>) <u>Enclosed asbuilt discription</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u>) <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42D</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? (<u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? (<u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? (<u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? (<u>N/A</u>) <u>Well terminates within upper sediments</u>	
4b. Aquifer/strata penetrated permanently sealed? (<u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? (<u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? (<u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? (<u>Yes</u>) <u>Capped and locked</u>	
6. Is design and construction IAW WAC 173-160-500? (<u>No</u>) <u>No surface or annular seal documented</u>	
6a. Saturated formation/aquifers not connected? (<u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? (<u>N/A</u>) <u>Not applicable</u>	
6c. Well properly identified? (<u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? (<u>Yes</u>) <u>Capped, no posts or pad present</u>	
7a. Well capped and protected? (<u>Yes</u>) <u>Capped and locked</u>	
7b. Protective posts, surface pad or cover installed? (<u>No</u>) <u>No posts, surface pad or cover installed</u>	
7c. Surface protection waived or variance obtained? (<u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? (<u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? (<u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? (<u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? (<u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? (<u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? (<u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? (<u>Yes</u>) <u>Enclosed asbuilt discription</u>	
10b. Vertical lithology documented? (<u>No</u>) <u>Not documented</u>	

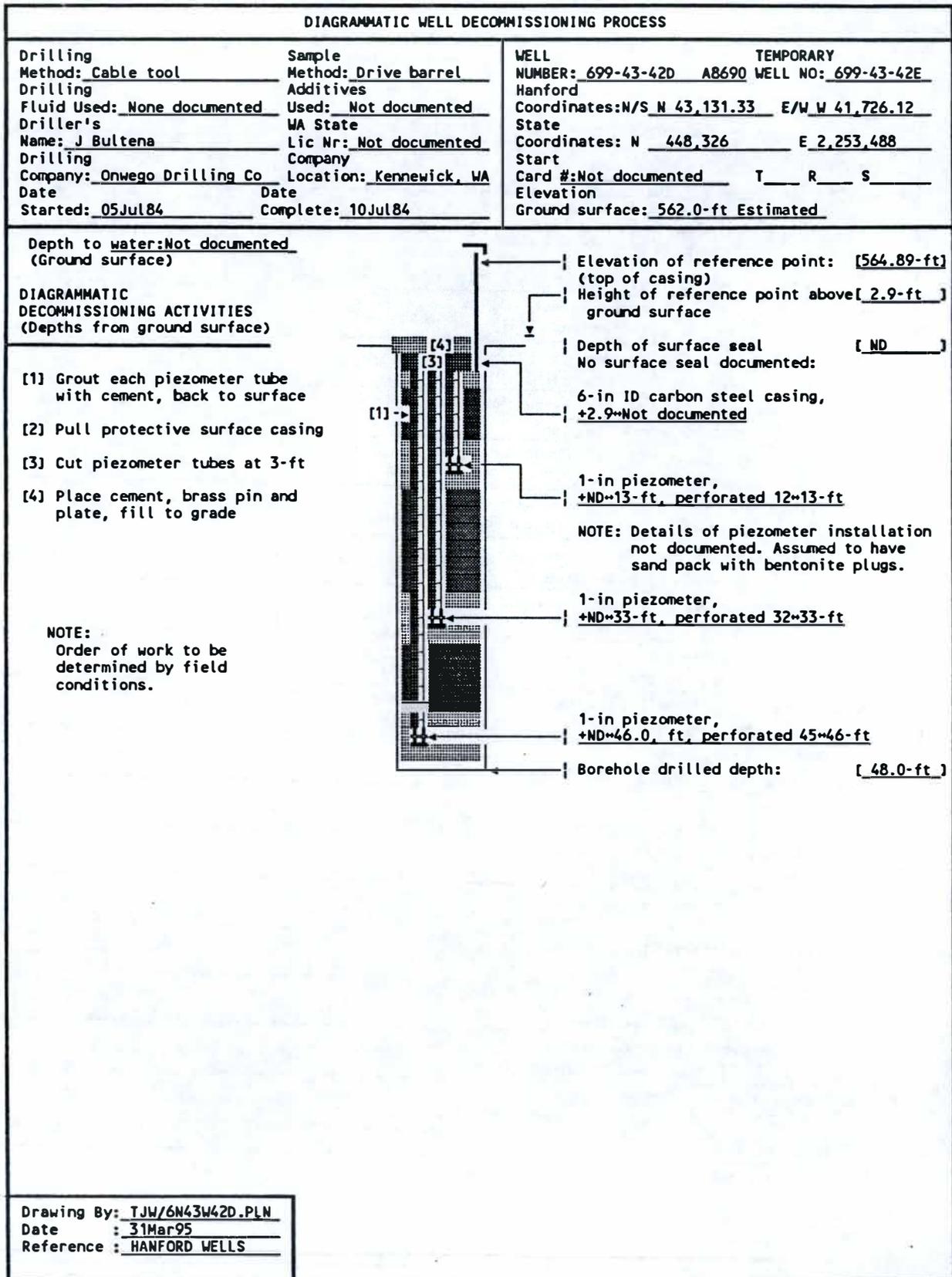
WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43- 42D</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>13. Data Sources Used: Logs: Driller's: <u>J. Bultena, Onwego Drilling Co.</u> Date: <u>7-10-84</u> Company: _____ Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>Well Services</u> Date: <u>03/07/95</u> Company: <u>WHC</u></p> <p>Other: _____ _____</p>	
<p>14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>Well has no further use</u></p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>Well has no identified use</u></p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>Well has no identified need</u></p> <p>Other <u>Former piezometer inst.wells</u> <input type="checkbox"/> _____ <input type="checkbox"/> <u>no longer needed</u></p>	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Cable tool</u> Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>05Jul84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Location: <u>Kennewick, WA</u> Date Complete: <u>10Jul84</u>	WELL NUMBER: <u>699-43-42D</u> <u>A8690</u> TEMPORARY WELL NO: <u>699-43-42E</u> Hanford Coordinates: <u>N/S N 43,131.33</u> <u>E/W W 41,726.12</u> State Coordinates: <u>N 448,326</u> <u>E 2,253,488</u> Start Card #: <u>Not documented</u> T ___ R ___ S ___ Elevation Ground surface: <u>562.0-ft Estimated</u>
Depth to water: <u>Not documented</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log No lithologic description given	<p>The diagram shows a vertical well casing with three piezometers (P, Q, R) installed at different depths. The casing is labeled as 6-in ID carbon steel. The borehole drilled depth is indicated as 48.0 ft. The piezometers are located at approximately 13 ft, 33 ft, and 46 ft from the surface. A surface seal is noted as not documented.</p>	
	Elevation of reference point: <u>[564.89-ft]</u> (top of casing) Height of reference point above <u>[2.9-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented: 6-in ID carbon steel casing, +2.9-Not documented 1-in piezometer, +ND=13-ft, perforated 12-13-ft NOTE: Details of piezometer installation not documented. Assumed to have sand pack with bentonite plugs. 1-in piezometer, +ND=33-ft, perforated 32-33-ft 1-in piezometer, +ND=46.0, ft, perforated 45-46-ft Borehole drilled depth: <u>[48.0-ft]</u>	
Drawing By: <u>RKL/6N43W42D.ASB</u> Date : <u>22Sep94</u> Reference : <u>HANFORD WELLS</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42C</u>
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<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u></p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u></p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u></p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediments</u></p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u></p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u></p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u></p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No surface or annular seal documented</u></p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u></p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>Yes</u>) <u>Capped, no posts or pad present</u></p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u></p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>No</u>) <u>No posts, surface pad or cover installed</u></p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>10a. Screened interval documented? <input type="checkbox"/> <u>Yes</u>) <u>Enclosed asbuilt discription</u></p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u>) <u>Not documented</u></p>	

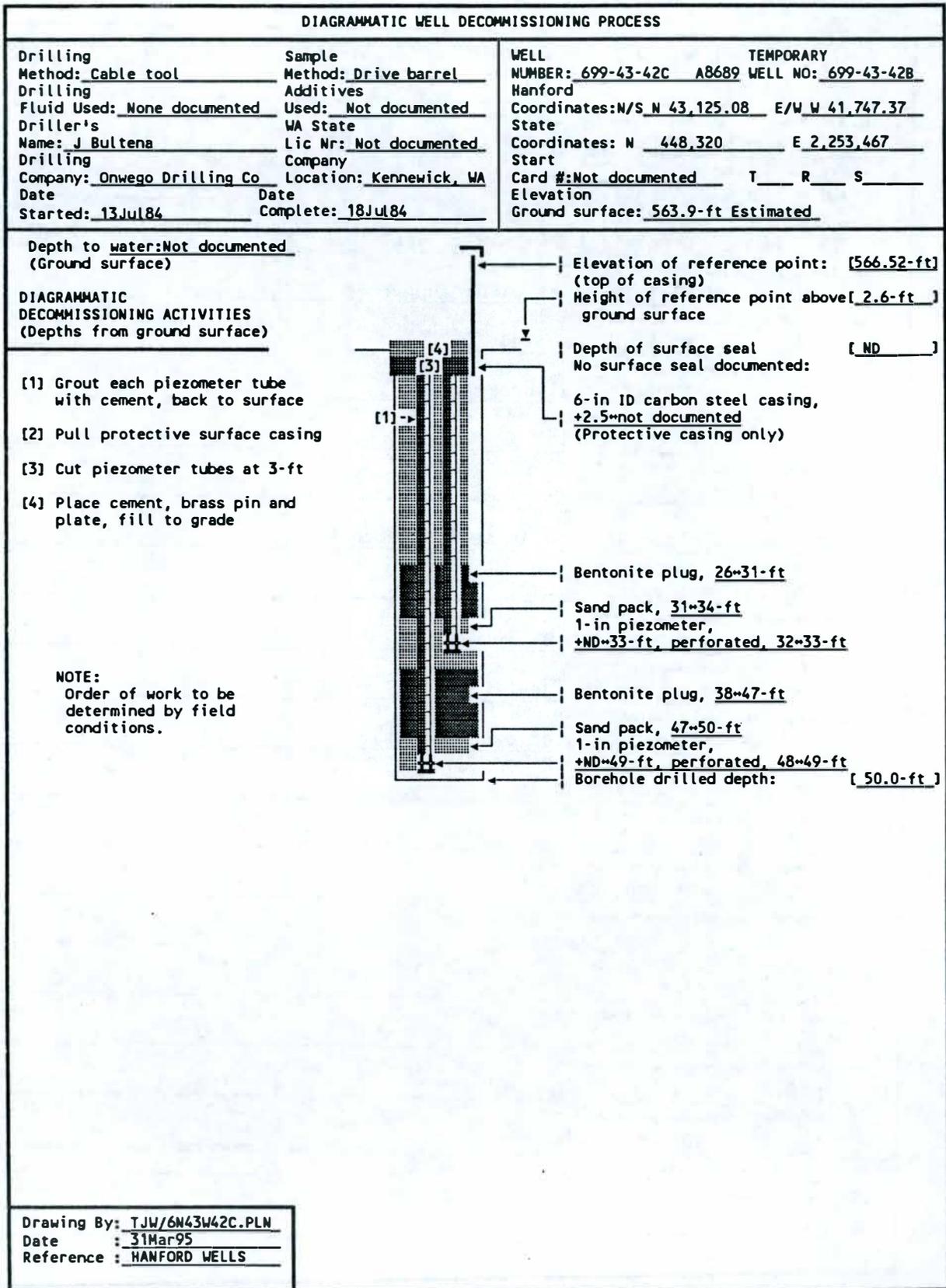
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42C</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
13. Data Sources Used: Logs: Driller's: <u>J. Bultena, Onwego Drilling Co.</u> Date: <u>7-18-84</u> Company: _____ Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> Field Check: <u>Well Services</u> Date: <u>03/07/95</u> Company: <u>WHC</u> Other: _____ _____ _____	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well has no further use</u> Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u> Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u> Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified use</u> Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u> Other <u>Former piezometer inst.wells</u> <input type="checkbox"/> _____) <u>no longer needed</u>	
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Cable tool</u> Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>13Jul84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Kernewick, WA</u> Date Complete: <u>18Jul84</u>	WELL NUMBER: <u>699-43-42C</u> A8689 TEMPORARY WELL NO: <u>699-43-42B</u> Hanford Coordinates: N/S <u>N 43,125.08</u> E/W <u>W 41,747.37</u> State Coordinates: N <u>448,320</u> E <u>2,253,467</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface: <u>563.9-ft</u> Estimated
Depth to <u>water: Not documented</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log No lithologic description given 34~40: Perched water zone	<p>The diagram shows a vertical well casing with various components labeled on the right side. From top to bottom, the components are: a 6-inch ID carbon steel casing with a height of 2.6 feet above ground surface; a surface seal (depth not documented); a 26-foot bentonite plug; a 31-foot sand pack containing a 1-inch piezometer at 32-33 feet depth; a 38-foot bentonite plug; a 47-foot sand pack containing a 1-inch piezometer at 48-49 feet depth; and a final 50-foot borehole drilled depth.</p>	
Elevation of reference point: <u>[566.52-ft]</u> (top of casing) Height of reference point above <u>[2.6-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented: 6-in ID carbon steel casing, +2.5~not documented (Protective casing only) Bentonite plug, <u>26~31-ft</u> Sand pack, <u>31~34-ft</u> 1-in piezometer, +ND~33-ft, perforated, <u>32~33-ft</u> Bentonite plug, <u>38~47-ft</u> Sand pack, <u>47~50-ft</u> 1-in piezometer, +ND~49-ft, perforated, <u>48~49-ft</u> Borehole drilled depth: <u>[50.0-ft]</u>		
Drawing By: <u>RKL/6N43W42C.ASB</u> Date : <u>22Sep94</u> Reference : <u>HANFORD WELLS</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42B</u> Page 1 of 2
<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) No potential user identified</p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u>) No use identified</p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) No documentation of annular seal</p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) Well terminates within upper sediments</p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) No seals documented</p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) No surface seal documented</p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u>) Capped and locked</p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) No surface or annular seal documented</p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u>) No permanent identification</p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>Yes</u>) Capped, no posts or pad present</p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) Capped and locked</p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>No</u>) No posts, surface pad or cover installed</p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) Not applicable</p>	
<p>RCRA/CERCLA MONITORING WELL?</p> <p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>10a. Screened interval documented? <input type="checkbox"/> <u>Yes</u>) Enclosed asbuilt description</p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u>) Not documented</p>	

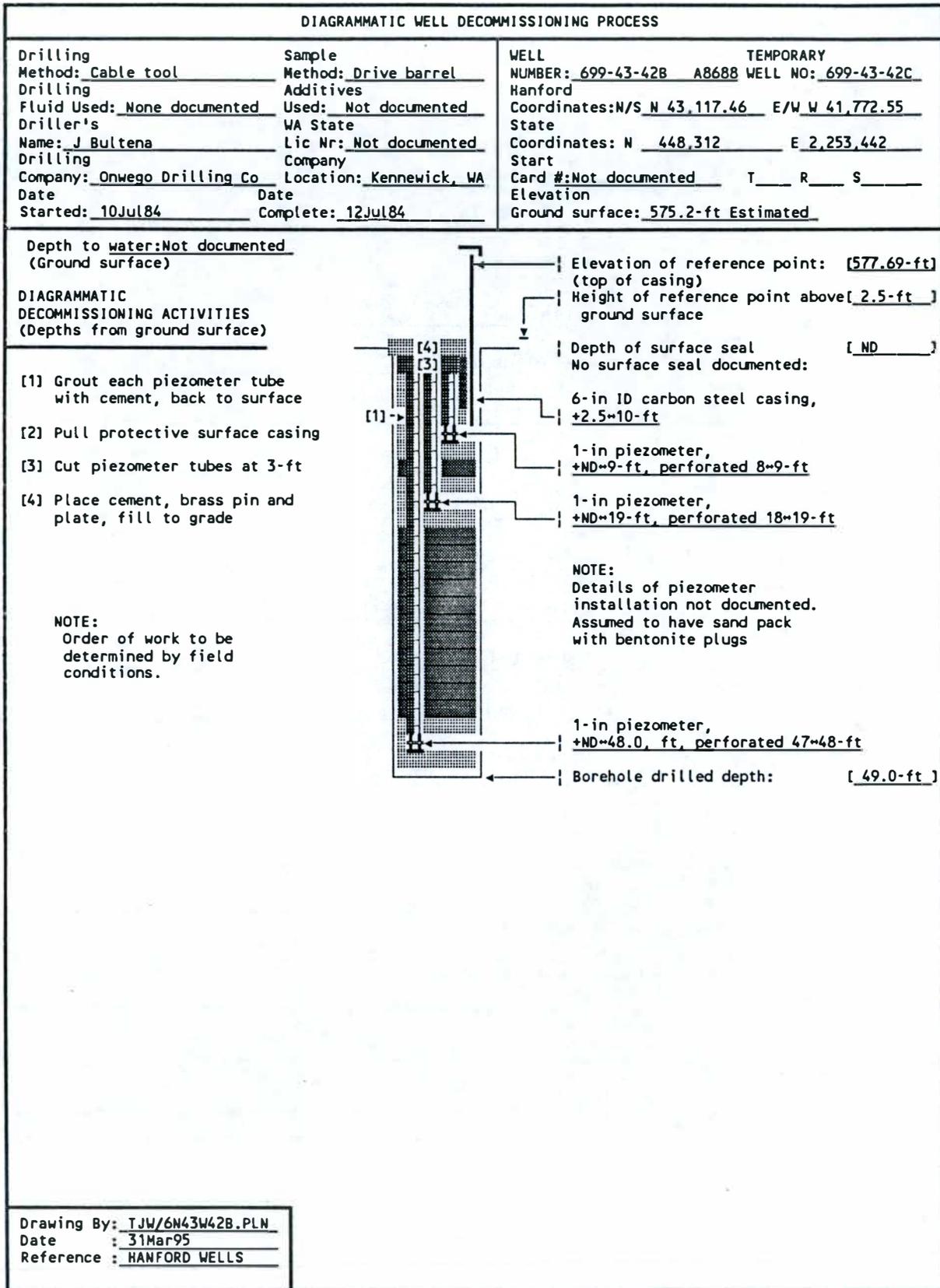
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42B</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
12. Does water sample meet established acceptance criteria? <small>Sample is less than 5 NTU and sand free.</small> <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
13. Data Sources Used: Logs: Driller's: <u>J. Bultena, Onwego Drilling Co.</u> Date: <u>7-12-84</u> Company: _____ Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> Field Check: <u>Well Services</u> Date: <u>03/07/95</u> Company: <u>WHC</u> Other: _____ _____	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well has no further use</u> Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u> Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u> Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified use</u> Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u> Other <u>Former piezometer inst.wells</u> <input type="checkbox"/> _____) <u>no longer needed</u>	
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
<p>Drilling Method: <u>Cable tool</u></p> <p>Drilling Fluid Used: <u>None documented</u></p> <p>Driller's Name: <u>J Bultena</u></p> <p>Drilling Company: <u>Onwego Drilling Co</u></p> <p>Date Started: <u>10Jul84</u></p>	<p>Sample Method: <u>Drive barrel</u></p> <p>Additives Used: <u>Not documented</u></p> <p>WA State Lic Nr: <u>Not documented</u></p> <p>Company Location: <u>Kennewick, WA</u></p> <p>Date Complete: <u>12Jul84</u></p>	<p>WELL NUMBER: <u>699-43-42B</u> TEMPORARY <u>A8688</u> WELL NO: <u>699-43-42C</u></p> <p>Hanford</p> <p>Coordinates: N/S <u>N 43,117.46</u> E/W <u>W 41,772.55</u></p> <p>State Coordinates: N <u>448,312</u> E <u>2,253,442</u></p> <p>Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u></p> <p>Elevation Ground surface: <u>575.2-ft Estimated</u></p>
<p>Depth to water: <u>Not documented</u> (Ground surface)</p> <p>GENERALIZED STRATIGRAPHY Driller's Log</p> <p>No lithologic description given</p>	<p>The diagram shows a vertical well casing with three piezometers (P, Q, R) and a borehole drilled depth. The casing is labeled as 6-in ID carbon steel casing, +2.5~10-ft. Piezometer P is at +ND~9-ft, perforated 8~9-ft. Piezometer Q is at +ND~19-ft, perforated 18~19-ft. Piezometer R is at +ND~48.0 ft, perforated 47~48-ft. The borehole drilled depth is 49.0-ft. The elevation of the reference point (top of casing) is 577.69-ft, and the height of the reference point above ground surface is 2.5-ft.</p>	
	<p>Elevation of reference point: <u>[577.69-ft]</u> (top of casing)</p> <p>Height of reference point above <u>[2.5-ft]</u> ground surface</p> <p>Depth of surface seal <u>[ND]</u> No surface seal documented:</p> <p>6-in ID carbon steel casing, <u>+2.5~10-ft</u></p> <p>1-in piezometer, <u>+ND~9-ft, perforated 8~9-ft</u></p> <p>1-in piezometer, <u>+ND~19-ft, perforated 18~19-ft</u></p> <p>NOTE: Details of piezometer installation not documented. Assumed to have sand pack with bentonite plugs</p> <p>1-in piezometer, <u>+ND~48.0, ft, perforated 47~48-ft</u></p> <p>Borehole drilled depth: <u>[49.0-ft]</u></p>	
<p>Drawing By: <u>RKL/6N43W42B.ASB</u></p> <p>Date : <u>22Sep94</u></p> <p>Reference : <u>HANFORD WELLS</u></p>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42A</u>
	Page 1 of 2
<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> , <u>No potential user identified</u></p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u> , <u>No use identified</u></p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> , <u>No documentation of annular seal</u></p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> , <u>Well terminates within upper sediments</u></p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> , <u>No seals documented</u></p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> , <u>No surface seal documented</u></p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u> , <u>Capped and locked</u></p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> , <u>No surface or annular seal documented</u></p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u> , <u>No permanent identification</u></p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>Yes</u> , <u>Capped, no posts or pad present</u></p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> , <u>Capped and locked</u></p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>No</u> , <u>No posts, surface pad or cover installed</u></p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> , <u>Not applicable</u></p> <p>10a. Screened interval documented? <input type="checkbox"/> <u>Yes</u> , <u>Enclosed asbuilt discription</u></p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u> , <u>Not documented</u></p>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-42A</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used: Logs: Driller's: <u>J. Bultena, Onwego Drilling Co.</u> Date: <u>7-3-84</u> Company: _____ Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> Field Check: <u>Well Services</u> Date: <u>03/07/95</u> Company: <u>WHC</u> Other: _____ _____</p> <p>14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____</p> <p>15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well has no further use</u> Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u> Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u> Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified use</u> Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u> Other <u>Former piezometer inst.wells</u> <input type="checkbox"/> _____) <u>no longer needed</u></p> <p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Cable tool</u> Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>02Jul84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Location: <u>Kennewick, WA</u> Date Complete: <u>03Jul84</u>	WELL NUMBER: <u>699-43-42A A8687</u> TEMPORARY WELL NO: <u>699-43-42B</u> Hanford Coordinates: N/S <u>N 43,110.33</u> E/W <u>W 41,812.50</u> State Coordinates: N <u>448,305</u> E <u>2,252,402</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface: <u>576.5-ft Estimated</u>			
Depth to water: <u>7.1-ft</u> <u>03Jul84</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log No lithologic description given	<p>The diagram is a vertical cross-section of a well. At the top, a horizontal line represents the ground surface. Below it, a vertical pipe (casing) extends downwards. The casing is labeled '6-in ID carbon steel casing, +2.3~not documented'. Below the casing, there is a layer of 'Bentonite, 4.5~6.5-ft'. Underneath the bentonite is a 'Sand pack, 6.5~10-ft'. A '1-in piezometer, +ND~8.1-ft, perforated, 7~8-ft' is shown as a thin vertical tube extending from the sand pack down to a 'Cement plug, 10~11-ft'. The bottom of the well is labeled 'Borehole drilled depth: [11.0-ft]'. A piezometer symbol 'P' is at the top of the casing, and a water level symbol 'v' is shown near the top of the casing. Arrows point from the text labels on the right to the corresponding parts of the diagram.</p>	Elevation of reference point: <u>[578.83-ft]</u> (top of casing) Height of reference point above <u>[2.3-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented: 6-in ID carbon steel casing, +2.3~not documented Bentonite, 4.5~6.5-ft Sand pack, 6.5~10-ft 1-in piezometer, +ND~8.1-ft, perforated, 7~8-ft Cement plug, 10~11-ft Borehole drilled depth: <u>[11.0-ft]</u>			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Drawing By: <u>RKL/6M43W42A.ASB</u></td> </tr> <tr> <td>Date: <u>22Sep94</u></td> </tr> <tr> <td>Reference: <u>HANFORD WELLS</u></td> </tr> </table>			Drawing By: <u>RKL/6M43W42A.ASB</u>	Date: <u>22Sep94</u>	Reference: <u>HANFORD WELLS</u>
Drawing By: <u>RKL/6M43W42A.ASB</u>					
Date: <u>22Sep94</u>					
Reference: <u>HANFORD WELLS</u>					

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
<p>Drilling Method: <u>Cable tool</u></p> <p>Drilling Fluid Used: <u>None documented</u></p> <p>Driller's Name: <u>J Bultena</u></p> <p>Drilling Company: <u>Onwego Drilling Co</u></p> <p>Date Started: <u>02Jul84</u></p>	<p>Sample Method: <u>Drive barrel</u></p> <p>Additives Used: <u>Not documented</u></p> <p>WA State Lic Nr: <u>Not documented</u></p> <p>Company Location: <u>Kennewick, WA</u></p> <p>Date Complete: <u>03Jul84</u></p>	<p>WELL NUMBER: <u>699-43-42A</u> TEMPORARY WELL NO: <u>699-43-42B</u></p> <p>Hanford</p> <p>Coordinates: N/S <u>43,110.33</u> E/W <u>41,812.50</u></p> <p>State Coordinates: N <u>448,305</u> E <u>2,252,402</u></p> <p>Start Card #: <u>Not documented</u> T ___ R ___ S ___</p> <p>Elevation Ground surface: <u>576.5-ft Estimated</u></p>
<p>Depth to water: <u>7.1-ft</u> <u>03Jul84</u> (Ground surface)</p> <p>DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)</p> <p>[1] Grout each piezometer tube with cement, back to surface</p> <p>[2] Pull protective surface casing</p> <p>[3] Cut piezometer tube at 3-ft</p> <p>[4] Place cement, brass pin and plate, fill to grade</p>		<p>Elevation of reference point: <u>[578.83-ft]</u> (top of casing)</p> <p>Height of reference point above <u>[2.3-ft]</u> ground surface</p> <p>Depth of surface seal <u>[ND]</u> No surface seal documented:</p> <p>6-in ID carbon steel casing, <u>+2.3-not documented</u></p> <p>Bentonite, <u>4.5-6.5-ft</u></p> <p>Sand pack, <u>6.5-10-ft</u></p> <p>1-in piezometer, <u>+ND-8.1-ft, perforated, 7-8-ft</u></p> <p>Cement plug, <u>10-11-ft</u> Borehole drilled depth: <u>[11.0-ft]</u></p>
<p>NOTE: Order of work to be determined by field conditions.</p>		
<p>Drawing By: <u>TJW/6N43W42A.PLN</u> Date : <u>30Mar95</u> Reference : <u>HANFORD WELLS</u></p>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43- 41D</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediments</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No surface or annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>Yes</u>) <u>Capped, no posts or pad present</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped and locked</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>No</u>) <u>No posts, surface pad or cover installed</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>Yes</u>) <u>Enclosed asbuilt discription</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u>) <u>Not documented</u>	

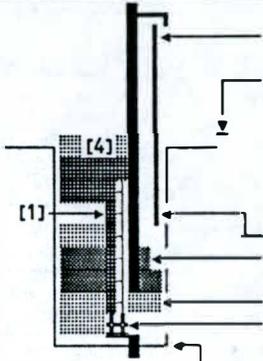
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-41D</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used: Logs: Driller's: <u>J. Bultena, Onwego Drilling Co.</u> Date: <u>7-10-84</u> Company: _____ Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> Field Check: <u>Well Services</u> Date: <u>03/07/95</u> Company: <u>WHC</u> Other: _____ _____</p>																			
<p>14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____</p>																			
<p>15. Status</p> <table style="width:100%; border: none;"> <tr> <td style="width:45%;">Well is acceptable for intended use</td> <td style="width:10%; text-align: center;">(<u>No</u>)</td> <td style="width:45%;"><u>Well has no further use</u></td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td style="text-align: center;">(<u>N/A</u>)</td> <td><u>Not applicable</u></td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td style="text-align: center;">(<u>No</u>)</td> <td><u>Not applicable</u></td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td style="text-align: center;">(<u>No</u>)</td> <td><u>Well has no identified use</u></td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td style="text-align: center;">(<u>Yes</u>)</td> <td><u>Well has no identified need</u></td> </tr> <tr> <td>Other <u>Former piezometer inst.wells</u></td> <td style="text-align: center;">(_____)</td> <td><u>no longer needed</u></td> </tr> </table>		Well is acceptable for intended use	(<u>No</u>)	<u>Well has no further use</u>	Well is acceptable for intended use if variance is granted	(<u>N/A</u>)	<u>Not applicable</u>	Rehabilitation required to continue intended use	(<u>No</u>)	<u>Not applicable</u>	Remediation required to achieve intended use	(<u>No</u>)	<u>Well has no identified use</u>	Decommission, well is unneeded or cannot be remediated	(<u>Yes</u>)	<u>Well has no identified need</u>	Other <u>Former piezometer inst.wells</u>	(_____)	<u>no longer needed</u>
Well is acceptable for intended use	(<u>No</u>)	<u>Well has no further use</u>																	
Well is acceptable for intended use if variance is granted	(<u>N/A</u>)	<u>Not applicable</u>																	
Rehabilitation required to continue intended use	(<u>No</u>)	<u>Not applicable</u>																	
Remediation required to achieve intended use	(<u>No</u>)	<u>Well has no identified use</u>																	
Decommission, well is unneeded or cannot be remediated	(<u>Yes</u>)	<u>Well has no identified need</u>																	
Other <u>Former piezometer inst.wells</u>	(_____)	<u>no longer needed</u>																	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u></p>																			

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Cable tool</u> Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>09Aug84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Location: <u>Kennewick, WA</u> Date Complete: <u>10Aug84</u>	WELL NUMBER: <u>699-43-41D</u> <u>A8685</u> TEMPORARY WELL NO: _____ Hanford Coordinates: N/S <u>N 42,834.80</u> E/W <u>W 41,172.21</u> State Coordinates: N <u>448,031</u> E <u>2,254,043</u> Start Card #: <u>Not documented</u> T _____ R _____ S _____ Elevation Ground surface: <u>560.9-ft Estimated</u>
Depth to water: <u>Not documented</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log No lithologic description given		Elevation of reference point: <u>[563.41-ft]</u> (top of casing) Height of reference point above <u>[7.5-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented: 6-in ID carbon steel casing, +7.5 not documented Bentonite plug Sand pack 1-in piezometer, +ND=8-ft, perforated, 7-8-ft Borehole drilled depth: <u>[9.0-ft]</u>
NOTE: Installation depths of bentonite plug and sand pack not documented		
Drawing By: <u>RKL/6N43W41D.ASB</u> Date : <u>22Sep94</u> Reference : <u>HANFORD WELLS</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>09Aug84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Kennewick, WA</u> Date Complete: <u>10Aug84</u>	WELL NUMBER: <u>699-43-41D A8685</u> TEMPORARY WELL NO: _____ Hanford Coordinates: N/S <u>N 42,834.80</u> E/W <u>W 41,172.21</u> State Coordinates: N <u>448,031</u> E <u>2,254,043</u> Start Card #: <u>Not documented</u> T ___ R ___ S ___ Elevation Ground surface: <u>560.9-ft Estimated</u>
Depth to water: <u>Not documented</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<ol style="list-style-type: none"> [1] Grout each piezometer tube with cement, back to surface [2] Pull protective surface casing [3] Cut piezometer tube at 3-ft [4] Place cement, brass pin and plate, fill to grade 	 <p style="font-size: small;">Elevation of reference point: [563.41-ft] (top of casing) Height of reference point above [2.5-ft] ground surface Depth of surface seal [ND] No surface seal documented: 6-in ID carbon steel casing, +2.5-not documented Bentonite plug Sand pack 1-in piezometer, +ND-8-ft, perforated, 7-8-ft Borehole drilled depth: [9.0-ft]</p> <p style="font-size: x-small;">NOTE: Installation depths of bentonite plug and sand pack not documented</p>
<p>NOTE: Order of work to be determined by field conditions.</p>		
Drawing By: <u>TJW/6N43W41D.PLN</u> Date : <u>30Mar95</u> Reference : <u>HANFORD WELLS</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43- 41C</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> No <input checked="" type="checkbox"/> No potential user identified	
3. Is well presently in use? <input type="checkbox"/> No <input checked="" type="checkbox"/> No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> No <input checked="" type="checkbox"/> No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Well terminates within upper sediments	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> No <input checked="" type="checkbox"/> No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> No <input checked="" type="checkbox"/> No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Capped and locked	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> No <input checked="" type="checkbox"/> No surface or annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
6c. Well properly identified? <input type="checkbox"/> No <input checked="" type="checkbox"/> No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Capped, no posts or pad present	
7a. Well capped and protected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Capped and locked	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> No <input checked="" type="checkbox"/> No posts, surface pad or cover installed	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Not applicable	
10a. Screened interval documented? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Enclosed asbuilt discription	
10b. Vertical lithology documented? <input type="checkbox"/> No <input checked="" type="checkbox"/> Not documented	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-43-41C</u>
	Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used:</p> <p>Logs:</p> <p>Driller's: <u>J. Bultena, Onwego Drilling Co.</u> Date: <u>7/10/84</u> Company: _____</p> <p>Geologist: _____ Date: _____ Company: _____</p> <p>Geophysical: _____ Date: _____ Company: _____</p> <p>Television: _____ Date: _____ Company: _____</p> <p>Publications: Title, Author, Date</p> <p><u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases:</p> <p><u>WHC Well Services</u></p> <p>Field Check: <u>Well Services</u> Date: <u>03/07/95</u> Company: <u>WHC</u></p> <p>Other: _____</p> <p>_____</p> <p>_____</p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well has no further use</u></p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u></p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified use</u></p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u></p> <p>Other <u>Former piezometer inst.wells</u> <input type="checkbox"/> _____) <u>no longer needed</u></p>	
<p>16. Status Recommendation</p> <p>Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/06/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>None documented</u> Driller's Name: <u>J Bultena</u> Drilling Company: <u>Onwego Drilling Co</u> Date Started: <u>09Aug84</u>	Sample Method: <u>Drive barrel</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Kennewick, WA</u> Date Complete: <u>10Aug84</u>	WELL NUMBER: <u>699-43-41C</u> <u>A8684</u> TEMPORARY WELL NO: _____ Hanford Coordinates: <u>N/S N 42,676.73</u> <u>E/W W 41,171.57</u> State Coordinates: N <u>447,813</u> E <u>2,254,044</u> Start Card #: <u>Not documented</u> T _____ R _____ S _____ Elevation Ground surface: <u>561.0-ft Estimated</u>
Depth to water: <u>Not documented</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log No lithologic description given	<p>The diagram shows a vertical well casing with two piezometers (P and Q) inside. From top to bottom, the layers are: 6-in ID carbon steel casing (2.5-ft, not documented), Bentonite (2-5-ft), Sand pack (5-8-ft), 1-in piezometer (ND-8-ft, perforated, 7-8-ft), Bentonite (8-13-ft), Sand pack (13-16-ft), 1-in piezometer (ND-15-ft, perforated, 14-15-ft), and Borehole drilled depth (17.0-ft).</p>	Elevation of reference point: <u>[563.54-ft]</u> (top of casing) Height of reference point <u>above [2.5-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented: 6-in ID carbon steel casing, <u>2.5-ft-not documented</u> Bentonite, <u>2-5-ft</u> Sand pack, <u>5-8-ft</u> 1-in piezometer, <u>ND-8-ft, perforated, 7-8-ft</u> Bentonite, <u>8-13-ft</u> Sand pack, <u>13-16-ft</u> 1-in piezometer, <u>ND-15-ft, perforated, 14-15-ft</u> Borehole drilled depth: <u>[17.0-ft]</u>
Drawing By: <u>RKL/6N43W41C.ASB</u> Date : <u>22Sep94</u> Reference : <u>HANFORD WELLS</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
<p>Drilling Method: <u>Cable tool</u></p> <p>Drilling Fluid Used: <u>None documented</u></p> <p>Driller's Name: <u>J Bultena</u></p> <p>Drilling Company: <u>Onwego Drilling Co</u></p> <p>Date Started: <u>09Aug84</u></p>	<p>Sample Method: <u>Drive barrel</u></p> <p>Additives Used: <u>Not documented</u></p> <p>WA State Lic Nr: <u>Not documented</u></p> <p>Company Location: <u>Kennewick, WA</u></p> <p>Date Complete: <u>10 Aug 84</u></p>	<p>WELL NUMBER: <u>699-43-41C</u> <u>A8684</u> TEMPORARY WELL NO: _____</p> <p>Hanford State Coordinates: N/S <u>N 42,676.73</u> E/W <u>W 41,171.57</u></p> <p>Coordinates: N <u>447,813</u> E <u>2,254,044</u></p> <p>Start Card #: <u>Not documented</u> T _____ R _____ S _____</p> <p>Elevation Ground surface: <u>561.0-ft Estimated</u></p>
<p>Depth to water: <u>Not documented</u> (Ground surface)</p> <p>DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)</p>		
<p>[1] Grout each piezometer tube with cement, back to surface</p> <p>[2] Pull protective surface casing</p> <p>[3] Cut piezometer tubes at 3-ft</p> <p>[4] Place cement, brass pin and plate, fill to grade</p> <p>NOTE: Order of work to be determined by field conditions.</p>	<p>The diagram shows a vertical well casing with various layers and components. From top to bottom: a surface seal (depth ND), a 6-inch ID carbon steel casing (2.5-ft, not documented), a layer of Bentonite (2-5-ft), a Sand pack (5-8-ft), a 1-inch piezometer (7-8-ft, ND), another layer of Bentonite (8-13-ft), a Sand pack (13-16-ft), and a final 1-inch piezometer (14-15-ft, ND). The total borehole drilled depth is 17.0-ft. The diagram is annotated with numbers [1] through [4] corresponding to the decommissioning activities listed on the left.</p>	<p>Elevation of reference point: <u>[563.54-ft]</u> (top of casing)</p> <p>Height of reference point <u>above [2.5-ft]</u> ground surface</p> <p>Depth of surface seal <u>[ND]</u> No surface seal documented:</p> <p>6-in ID carbon steel casing, <u>2.5-ft-not documented</u></p> <p>Bentonite, <u>2-5-ft</u></p> <p>Sand pack, <u>5-8-ft</u></p> <p>1-in piezometer, <u>ND-8-ft, perforated, 7-8-ft</u></p> <p>Bentonite, <u>8-13-ft</u></p> <p>Sand pack, <u>13-16-ft</u></p> <p>1-in piezometer, <u>ND-15-ft, perforated, 14-15-ft</u></p> <p>Borehole drilled depth: <u>[17.0-ft]</u></p>
<p>Drawing By: <u>TJW/6N43W41C.PLN</u></p> <p>Date: <u>30Mar95</u></p> <p>Reference: <u>HANFORD WELLS</u></p>		

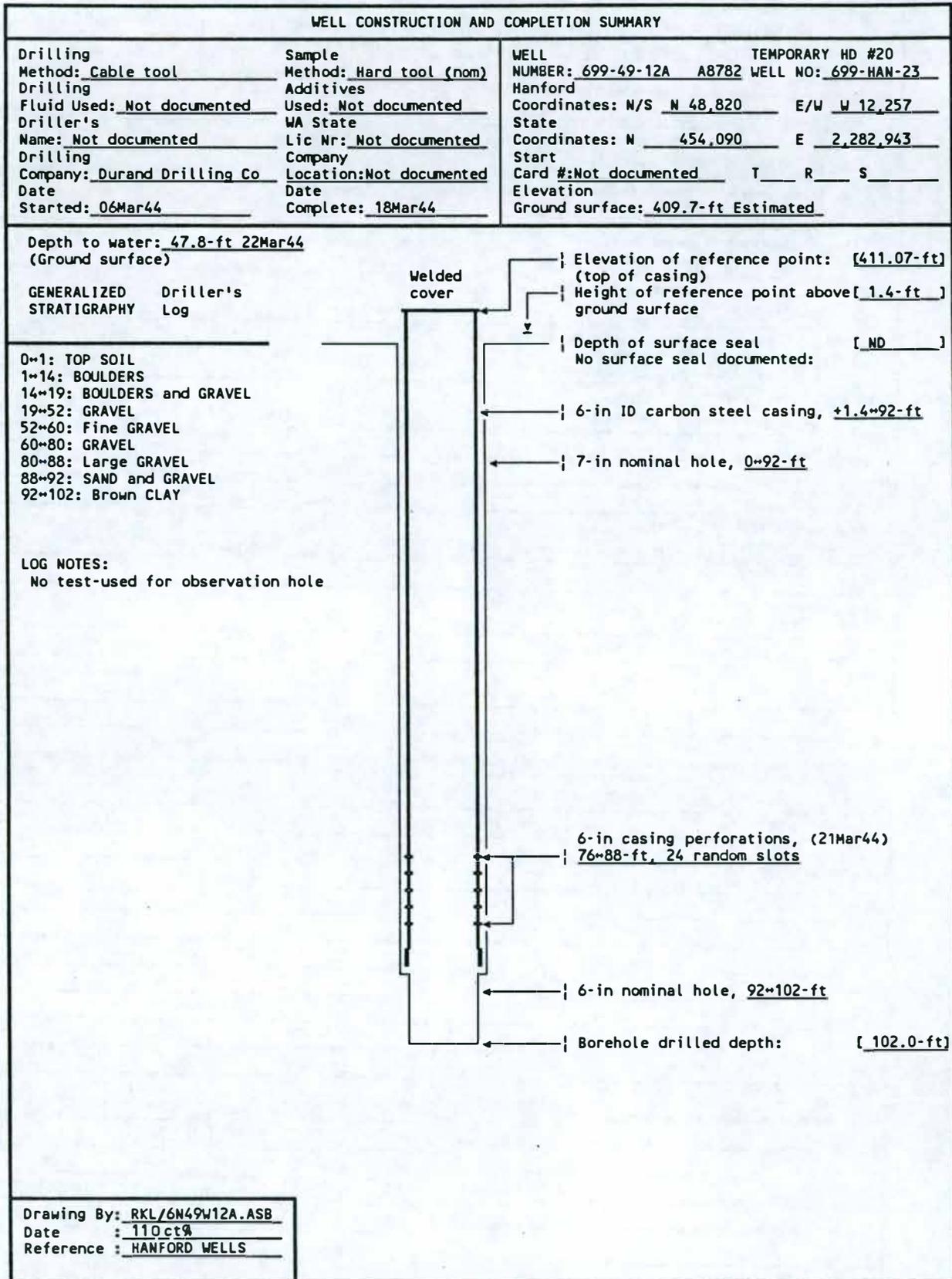
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-49-12A</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? (<u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? (<u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? (<u>No</u>) <u>No documented annular seal</u>	
4a. Natural barriers preserved? (<u>N/A</u>) <u>Well terminates within top unconfined aquifer</u>	
4b. Aquifer/strata penetrated permanently sealed? (<u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? (<u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? (<u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? (<u>Yes</u>) <u>Capped, welded in place</u>	
6. Is design and construction IAW WAC 173-160-500? (<u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? (<u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? (<u>N/A</u>) <u>Drilled prior to date of WAC 173-303</u>	
6c. Well properly identified? (<u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? (<u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? (<u>No</u>) <u>Capped, no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? (<u>No</u>) <u>None</u>	
7c. Surface protection waived or variance obtained? (<u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? (<u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? (<u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? (<u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? (<u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? (<u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? (<u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? (<u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? (<u>Yes</u>) <u>Drillers log</u>	

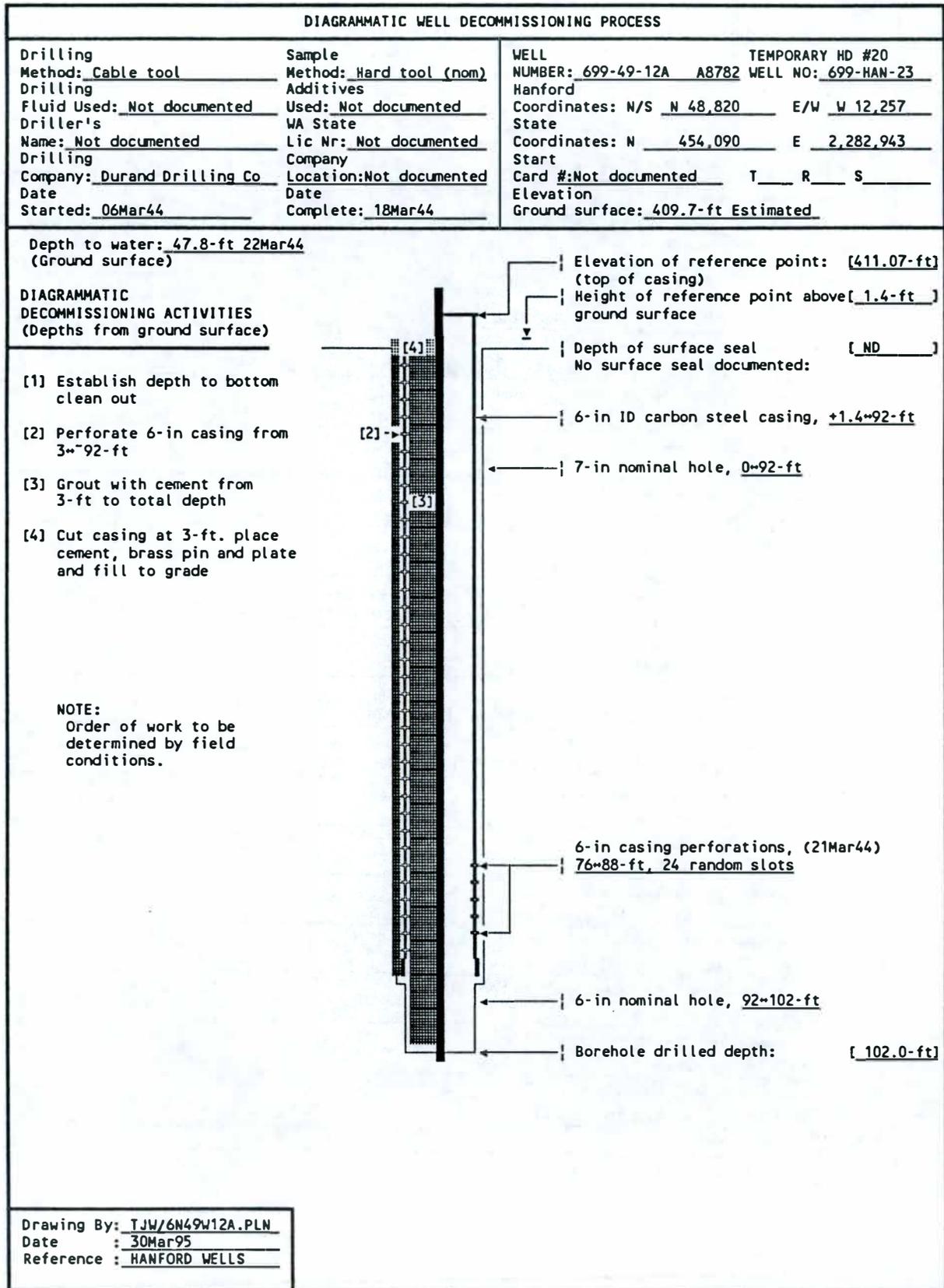
WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-49-12A</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>13. Data Sources Used:</p> <p>Logs:</p> <p>Driller's: <u>Durand Drilling Co.</u> Date: <u>03/18/44</u> Company: _____</p> <p>Geologist: _____ Date: _____ Company: _____</p> <p>Geophysical: _____ Date: _____ Company: _____</p> <p>Television: _____ Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well services</u> Date: <u>03/21/95</u> Company: <u>WHC</u></p> <p>Other: _____ _____</p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>Well lacks seals</u></p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>NO</u> <input type="checkbox"/> <u>Well has no identified user</u></p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>Well has no identified need</u></p> <p>Other _____ <input type="checkbox"/> _____</p>	
<p>16. Status Recommendation</p> <p>Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/05/95</u></p>	

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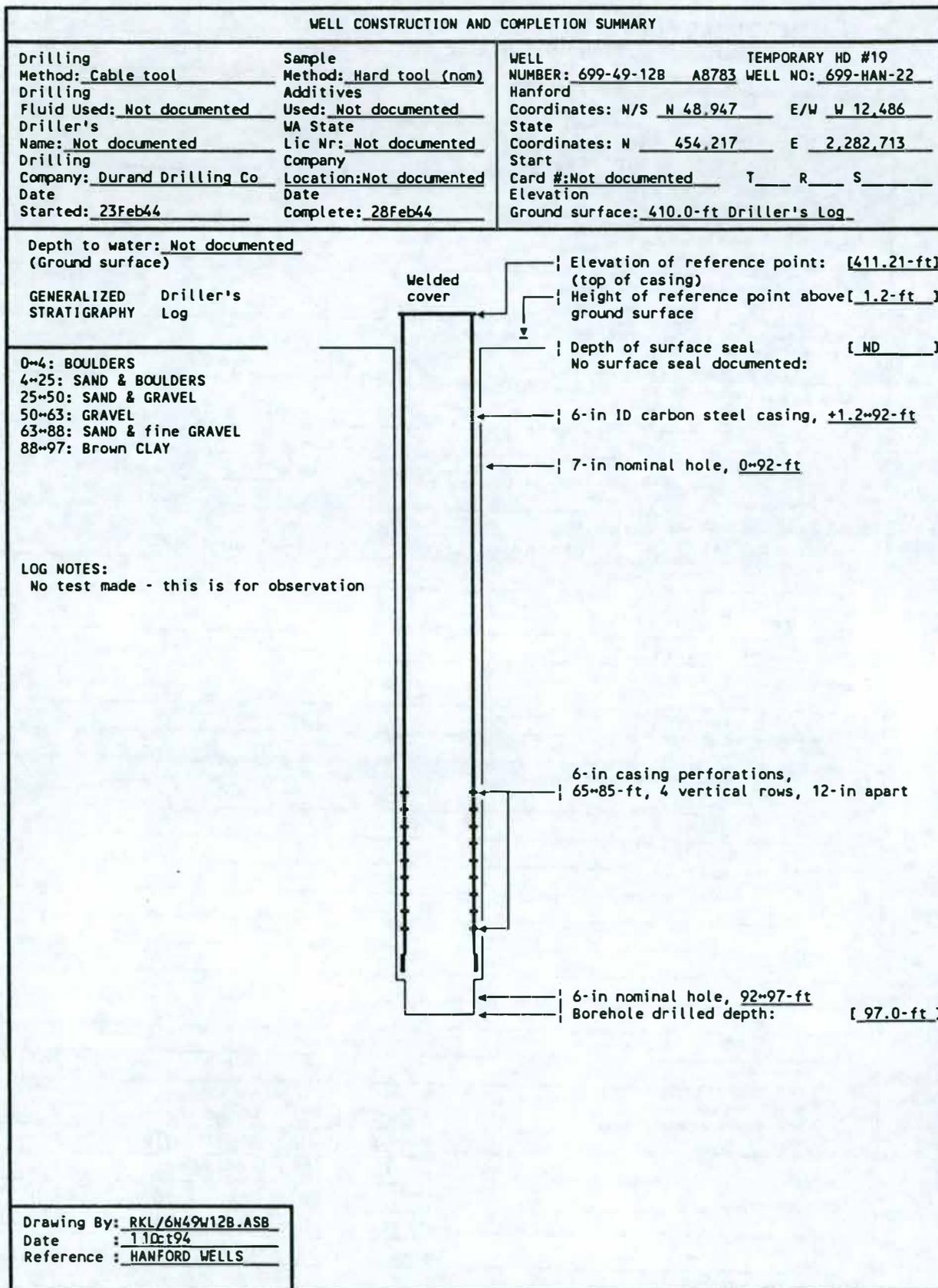
WHC-SD-EN-AP-161, Rev 0, Appendix D



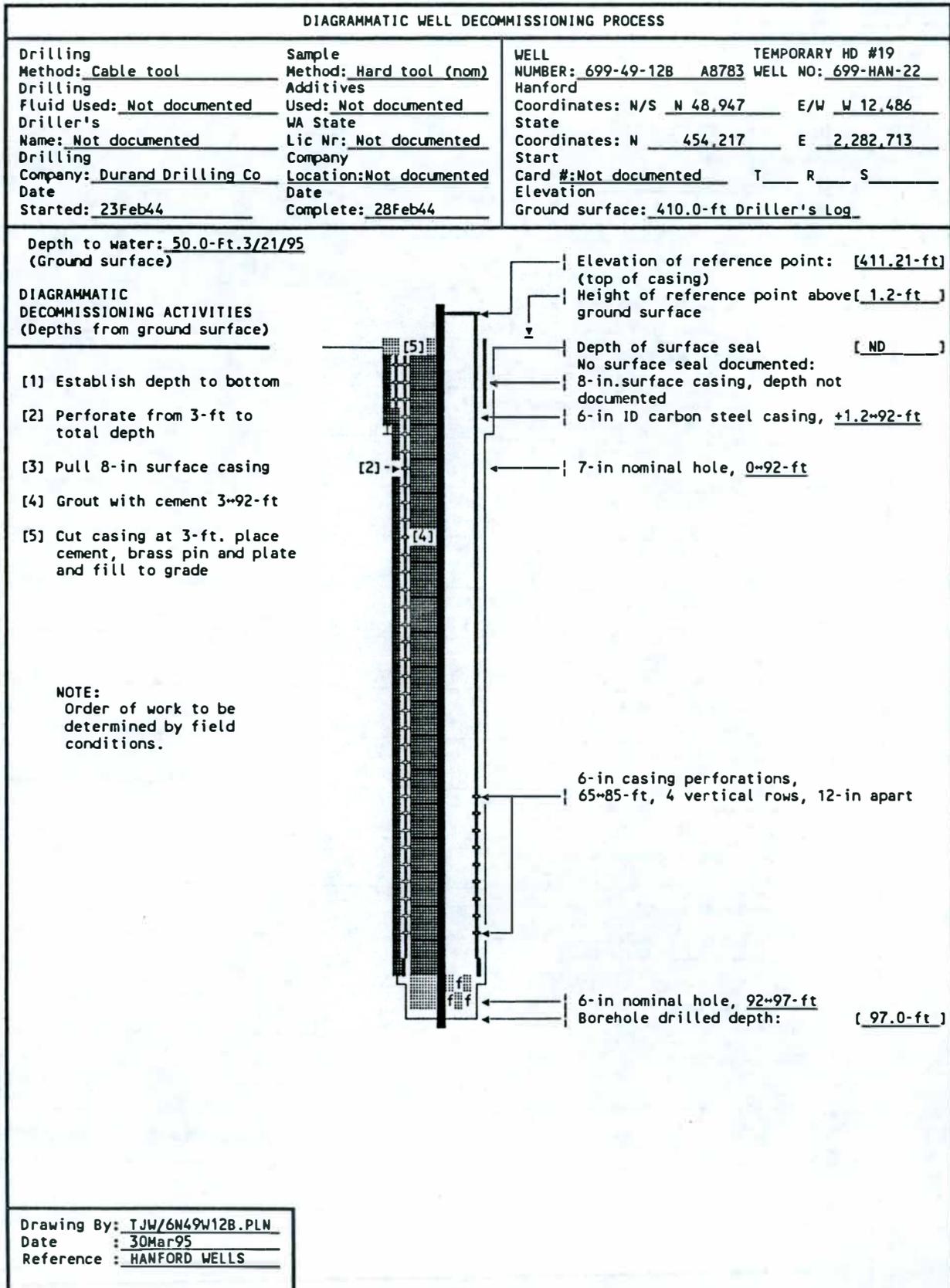
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. 699-49-12B
	Page 1 of 2
<p>2. Has a need for use of the well been identified and documented? (<u>No</u>) No potential user identified</p> <p>3. Is well presently in use? (<u>No</u>) No user identified</p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? (<u>No</u>) No documentation of annular seal</p> <p>4a. Natural barriers preserved? (<u>N/A</u>) Well terminates within top of unconfined aquifer</p> <p>4b. Aquifer/strata penetrated permanently sealed? (<u>No</u>) No seals documented</p> <p>4c. Annulus sealed against surface water? (<u>No</u>) No surface seal documented</p> <p>4d. Casing overlap more than 8 ft; packed and grouted? (<u>N/A</u>) Not applicable</p> <p>5. If not in use, is well capped IAW WAC 173-160-085? (<u>Yes</u>) Cap is welded in place</p> <p>6. Is design and construction IAW WAC 173-160-500? (<u>No</u>) No annular seal documented</p> <p>6a. Saturated formation/aquifers not connected? (<u>N/A</u>) Not applicable</p> <p>6b. Cuttings/development water handled IAW WAC 173-303? (<u>N/A</u>) Drilled prior to applicable date of WAC 173-303</p> <p>6c. Well properly identified? (<u>No</u>) No permanent identification</p> <p>7. Is surface protection IAW WAC 173-160-510? (<u>No</u>) No surface seal documented</p> <p>7a. Well capped and protected? (<u>No</u>) Capped, not protected</p> <p>7b. Protective posts, surface pad or cover installed? (<u>No</u>) No posts or surface pad</p> <p>7c. Surface protection waived or variance obtained? (<u>N/A</u>) Not applicable</p> <p>7d. Is existing surface protection damaged? (<u>N/A</u>) Not applicable</p> <p>8. Are casing materials IAW 173-160-520? (<u>N/A</u>) Not applicable</p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? (<u>N/A</u>) Not applicable</p> <p>9a. Drill rig/equipment casing/screen cleaned? (<u>N/A</u>) Not applicable</p> <p>9b. Filter pack cleaned? Material compatible? (<u>N/A</u>) Not applicable</p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? (<u>N/A</u>) Not applicable</p> <p>10a. Screened interval documented? (<u>N/A</u>) Not applicable</p> <p>10b. Vertical lithology documented? (<u>Yes</u>) Has drillers log</p>	

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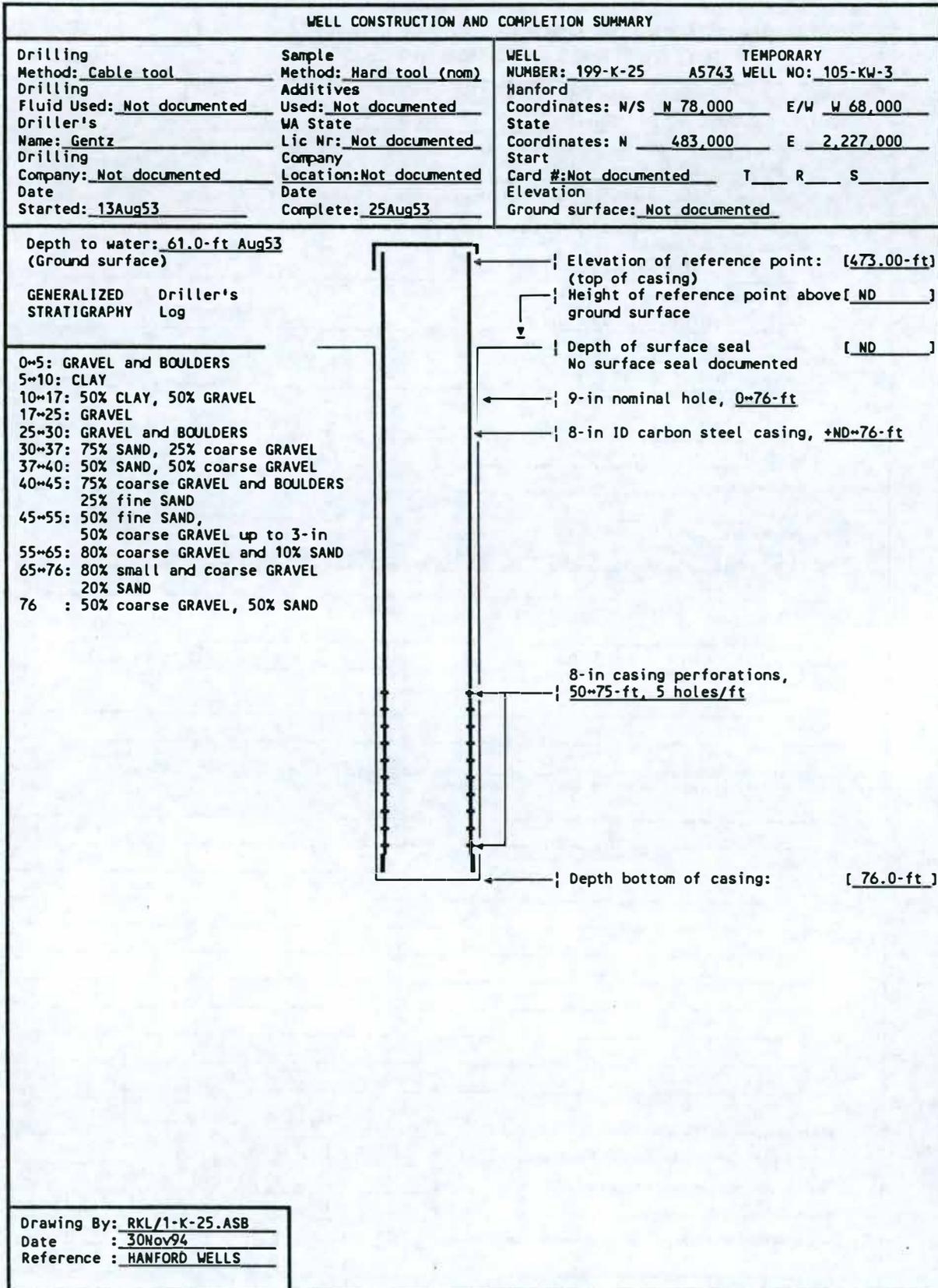
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>199-K-25</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? (<u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? (<u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? (<u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? (<u>N/A</u>) <u>Well terminates within top unconfined aquifer</u>	
4b. Aquifer/strata penetrated permanently sealed? (<u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? (<u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? (<u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? (<u>No</u>) <u>Not capped</u>	
6. Is design and construction IAW WAC 173-160-500? (<u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? (<u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? (<u>N/A</u>) <u>Drilled before applicable date of WAC 173-303</u>	
6c. Well properly identified? (<u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? (<u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? (<u>No</u>) <u>Not capped or protected</u>	
7b. Protective posts, surface pad or cover installed? (<u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? (<u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? (<u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? (<u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? (<u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? (<u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? (<u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? (<u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? (<u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? (<u>Yes</u>) <u>Drillers log</u>	

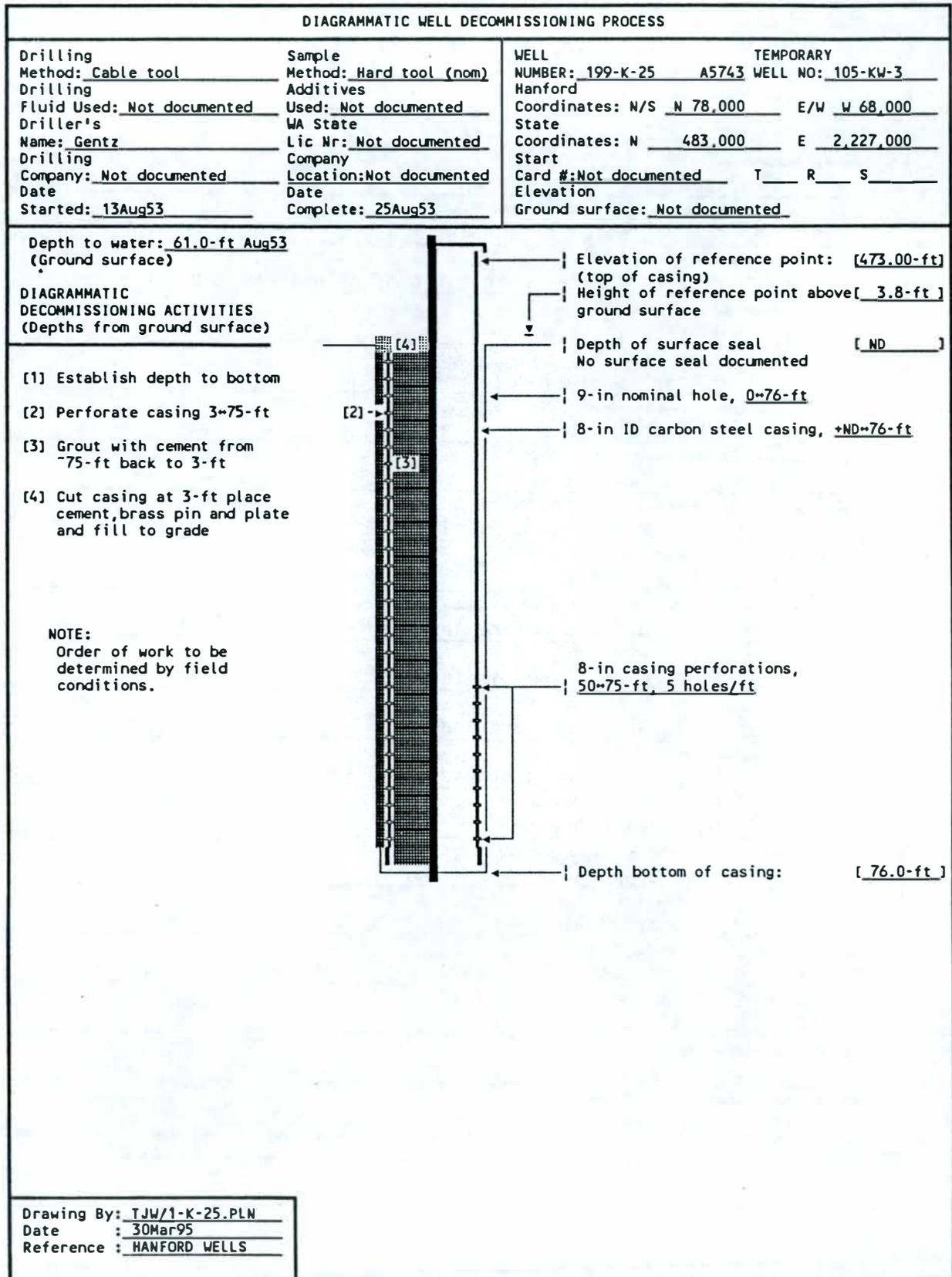
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>199-K-25</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>13. Data Sources Used:</p> <p>Logs:</p> <p>Driller's: <u>Gentz</u> Date: <u>08/25/53</u> Company: _____</p> <p>Geologist: _____ Date: _____ Company: _____</p> <p>Geophysical: _____ Date: _____ Company: _____</p> <p>Television: _____ Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M.A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: _____</p> <p>Field Check: <u>WHC Well Services</u> Date: <u>03/23/95</u> Company: <u>WHC</u></p> <p>Other: _____</p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Well lacks seal</p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/</u> <input type="checkbox"/> A Not applicable</p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Not applicable</p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Well has no identified user</p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> Well has no identified need</p> <p>Other _____ <input type="checkbox"/> _____</p>	
<p>16. Status Recommendation</p> <p>Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/04/95</u></p>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>199-K-24</u>
Page 1 of 2	
<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>NO</u>) No potential user identified</p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u>) No use identified</p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) No documentation of annular seal</p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) Well terminates within top of unconfined aquifer</p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) No seal documented</p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) No surface seal documented</p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u>) Well capped</p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) No annular seal documented</p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) Well drilled before applicable date of WAC 173-303</p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u>) No permanent identification</p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) No surface seal documented</p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>No</u>) Capped, no posts or pad present</p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) Not applicable</p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>Yes</u>) Has drillers log</p>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>199-K-24</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used: Logs: Driller's: <u>Gentz</u> Date: <u>12/27/52</u> Company: _____ Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M.A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: _____ Company: <u>WHC</u></p> <p>Other: _____ _____</p>	
<p>14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u></p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u></p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u></p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u></p> <p>Other <input type="checkbox"/> _____) _____</p>	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/03/95</u></p>	

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Cable tool</u> Drilling Fluid Used: <u>Not documented</u> Driller's Name: <u>Genz</u> Drilling Company: <u>Not documented</u> Date Started: <u>22Dec52</u>	Sample Method: <u>Hard tool (nom)</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>27Dec52</u>	WELL NUMBER: <u>199-K-24</u> <u>A5742</u> TEMPORARY WELL NO: <u>105-KW-2</u> Hanford Coordinates: N/S <u>W 77,000</u> E/W <u>W 69,000</u> State Coordinates: N <u>482,000</u> E <u>2,226,000</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface (ft): <u>Not documented</u>
Depth to water: <u>Not documented</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<p>The diagram shows a vertical well casing. At the top, an arrow points to the 'Elevation of reference point: [467.00-ft] (top of casing)'. Below this, an arrow indicates the 'Height of reference point above [ND] ground surface'. Further down, an arrow points to the 'Depth of surface seal [ND]', with a note 'No surface seal documented'. Below the seal, an arrow points to a '9-in nominal hole, 0~80-ft'. Underneath that, an arrow points to '8-in ID carbon steel casing, +ND~50-ft'. A note states 'No perforations documented'. At the bottom, an arrow points to the 'Borehole drilled depth: [50.0-ft]'. On the left side of the casing, four numbered boxes [1], [2], [3], and [4] indicate the locations of decommissioning activities.</p>	
<ol style="list-style-type: none"> [1] Establish depth to bottom [2] Perforate casing 3~50-ft [3] Grout with cement from 50-ft back to 3-ft [4] Cut casing at 3-ft. place cement, brass pin and plate, fill to grade <p>NOTE: Order of work to be determined by field conditions.</p>		
Drawing By: <u>TJW/1-K-24.PLN</u> Date : <u>03Apr95</u> Reference : <u>HANFORD WELLS</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>199-K-15</u>
Page 1 of 2	
<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) No potential user identified</p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u>) No use identified</p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) No documented annular seal</p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>No</u>) Well terminates within top of unconfined aquifer</p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) No seals documented</p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) No surface seal documented</p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>Yes</u>) Capped, not locked</p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) No annular seal documented</p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) Drilled prior to date of WAC 173-303</p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u>) No permanent identification</p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) No surface seal documented</p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>No</u>) Capped, no posts or pad present</p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) Not applicable</p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>No</u>) Not documented</p>	

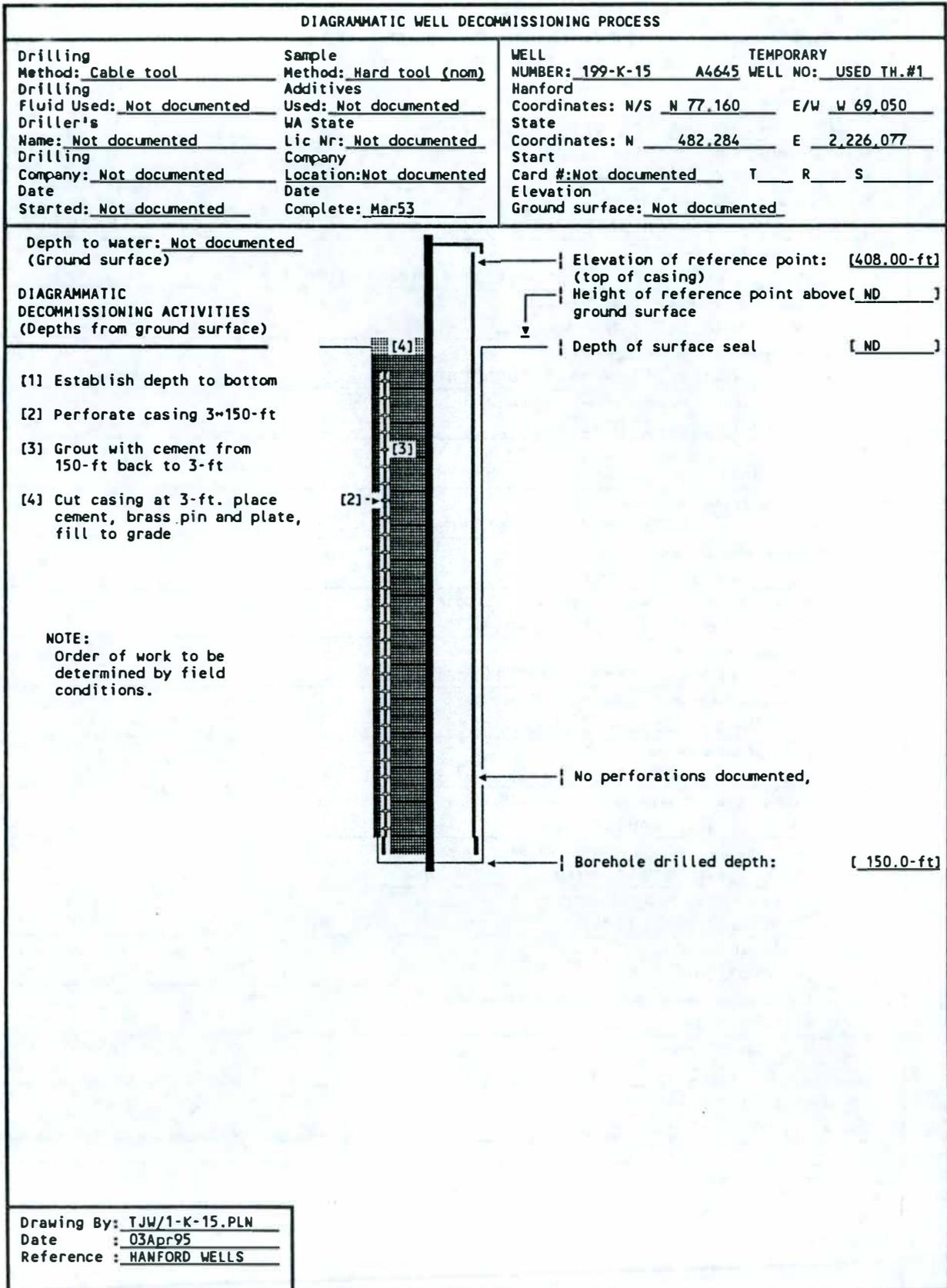
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>199-K-15</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
13. Data Sources Used: Logs: Driller's: <u>Not documented</u> Date: <u>03/00/53</u> Company: <u>N/A</u> Geologist: _____ Date: _____ Company: _____ Geophysical: _____ Date: _____ Company: _____ Television: _____ Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J.K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> _____ Field Check: _____ Date: _____ Company: _____ Other: _____ _____ _____	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Well lacks seals Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Not applicable Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Well has no identified user Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> Well has no identified need Other _____ <input type="checkbox"/> _____	
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/05/95</u>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Cable tool</u> Fluid Used: <u>Not documented</u> Driller's Name: <u>Not documented</u> Drilling Company: <u>Not documented</u> Date Started: <u>Not documented</u>	Sample Method: <u>Hard tool (nom)</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Not documented</u> Date Complete: <u>Mar53</u>	WELL NUMBER: <u>199-K-15</u> <u>A4645</u> TEMPORARY Hanford WELL NO: <u>USED TH.#1</u> Coordinates: N/S <u>N 77,160</u> E/W <u>W 69,050</u> State Coordinates: N <u>482,284</u> E <u>2,226,077</u> Start Card #: <u>Not documented</u> T <u> </u> R <u> </u> S <u> </u> Elevation Ground surface: <u>Not documented</u>	
Depth to water: <u>Not documented</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log 0-150: <u>Not documented</u>		Elevation of reference point: <u>[408.00-ft]</u> (top of casing) Height of reference point above <u>[ND]</u> ground surface Depth of surface seal <u>[ND]</u> No perforations documented, Borehole drilled depth: <u>[150.0-ft]</u>	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Drawing By: <u>RKL/1-K-15.ASB</u> Date : <u>29Nov94</u> Reference : <u>HANFORD WELLS</u> </td> </tr> </table>			Drawing By: <u>RKL/1-K-15.ASB</u> Date : <u>29Nov94</u> Reference : <u>HANFORD WELLS</u>
Drawing By: <u>RKL/1-K-15.ASB</u> Date : <u>29Nov94</u> Reference : <u>HANFORD WELLS</u>			

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-1B-92-01</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ; <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u> ; <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> ; <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> ; <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> ; <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> ; <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u> ; <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> ; <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ; <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u> ; <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> ; <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> ; <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u> ; <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-01</u>
Page 2 of 2	
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>13. Data Sources Used: Log#: Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u> Geologist: <u>N/A</u> Date: _____ Company: _____ Geophysical: <u>N/A</u> Date: _____ Company: _____ Television: <u>N/A</u> Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other: <u>Isolation Barrier Test Borings in support of WPPSS</u></p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u> , <u>Well lacks seals</u></p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u> , <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> , <u>Not applicable</u></p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> , <u>Well has no identified user</u></p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> , <u>Well has no identified need</u></p> <p>Other _____ <input type="checkbox"/> _____</p>	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-01 B2436</u> TEMPORARY BWIP WELL NO: <u>1B-92-01</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,075</u> State Coordinates: N <u>414,415</u> E <u>2,301,377</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface)		
GENERALIZED Driller's STRATIGRAPHY Log		
0~41-ft No log available		
<p>The diagram shows a vertical well casing. From top to bottom, it consists of: - A section of 2-in ID Sinco poly casing, labeled as +2.0~41-ft. - A section of 11-in nominal hole, labeled as 0~41-ft. - A borehole drilled depth of 41.0-ft. To the right of the casing, several key levels are marked with arrows: - Elevation of reference point: [454.00-ft] (top of casing) - Height of reference point above ground surface: [2.0-ft] - Depth of surface seal: [ND] (No surface seal documented) - Borehole drilled depth: [41.0-ft]</p>		
Drawing By: <u>TJW/6N1B9201,ASB</u> Date: <u>13Apr95</u> Reference: <u>None</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS					
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-01 B2436</u> TEMPORARY WELL NO: <u>1B-92-01</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,075</u> State Coordinates: N <u>414,415</u> E <u>2,301,377</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)		Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[_ND_]</u> No surface seal documented 11-in nominal hole <u>0~41-ft</u> 2-in ID Sinco poly casing <u>+2.0~41-ft</u> Borehole drilled depth: <u>[41.0-ft]</u>			
(1) Auger over existing casing to total depth (2) Backpull all existing casing (3) Remove augers, backfill with natural material/sand to 3-ft (4) Place cement cap, pin and plate, fill to grade					
NOTE: Order of work to be determined by field conditions.					
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6NIB9201,PLN</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>13Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6NIB9201,PLN</u>	Date : <u>13Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6NIB9201,PLN</u>					
Date : <u>13Apr95</u>					
Reference : <u>None</u>					

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-02</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ; No potential user identified	
3. Is well presently in use? <input type="checkbox"/> <u>No</u> ; No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> ; No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> ; Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> ; No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> ; No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u> ; Well not permanently capped	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> ; No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ; Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> <u>No</u> ; No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> ; No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> ; Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> ; Not applicable	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-02</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u>) Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) Not applicable	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) Not applicable	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) Not applicable	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) Not applicable	
13. Data Sources Used: Logs:	
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u> Company: <u>Wagster</u>
Geologist: <u>N/A</u>	Date: _____ Company: _____
Geophysical: <u>N/A</u>	Date: _____ Company: _____
Television: <u>N/A</u>	Date: _____ Company: _____
Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u>	
Databases: <u>WHC Well Services</u>	
Field Check: <u>WHC Well Services</u>	Date: <u>04/12/95</u> Company: <u>WHC</u>
Other: <u>Isolation Barrier Test Borings in support of WPPSS</u>	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status	
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u>
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>) <u>Not applicable</u>
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>) <u>Not applicable</u>
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u>
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u>
Other	<input type="checkbox"/> _____) _____
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL TEMPORARY BWIP NUMBER: <u>699-18-92-02 B2437</u> WELL NO: <u>18-92-02</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,068</u> State Coordinates: N <u>414,415</u> E <u>2,301,370</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log					
0~41-ft No log available	Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above [2.0-ft] ground surface Depth of surface seal [ND] No surface seal documented 11-in nominal hole 0~41-ft 3-in ID Sondex vinyl casing, +2.0~41-ft 2-in ID Sinco poly casing +2.0~41-ft Borehole drilled depth: [40.0-ft]				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N1B9202,ASB</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>13Ap r95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9202,ASB</u>	Date : <u>13Ap r95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9202,ASB</u>					
Date : <u>13Ap r95</u>					
Reference : <u>None</u>					

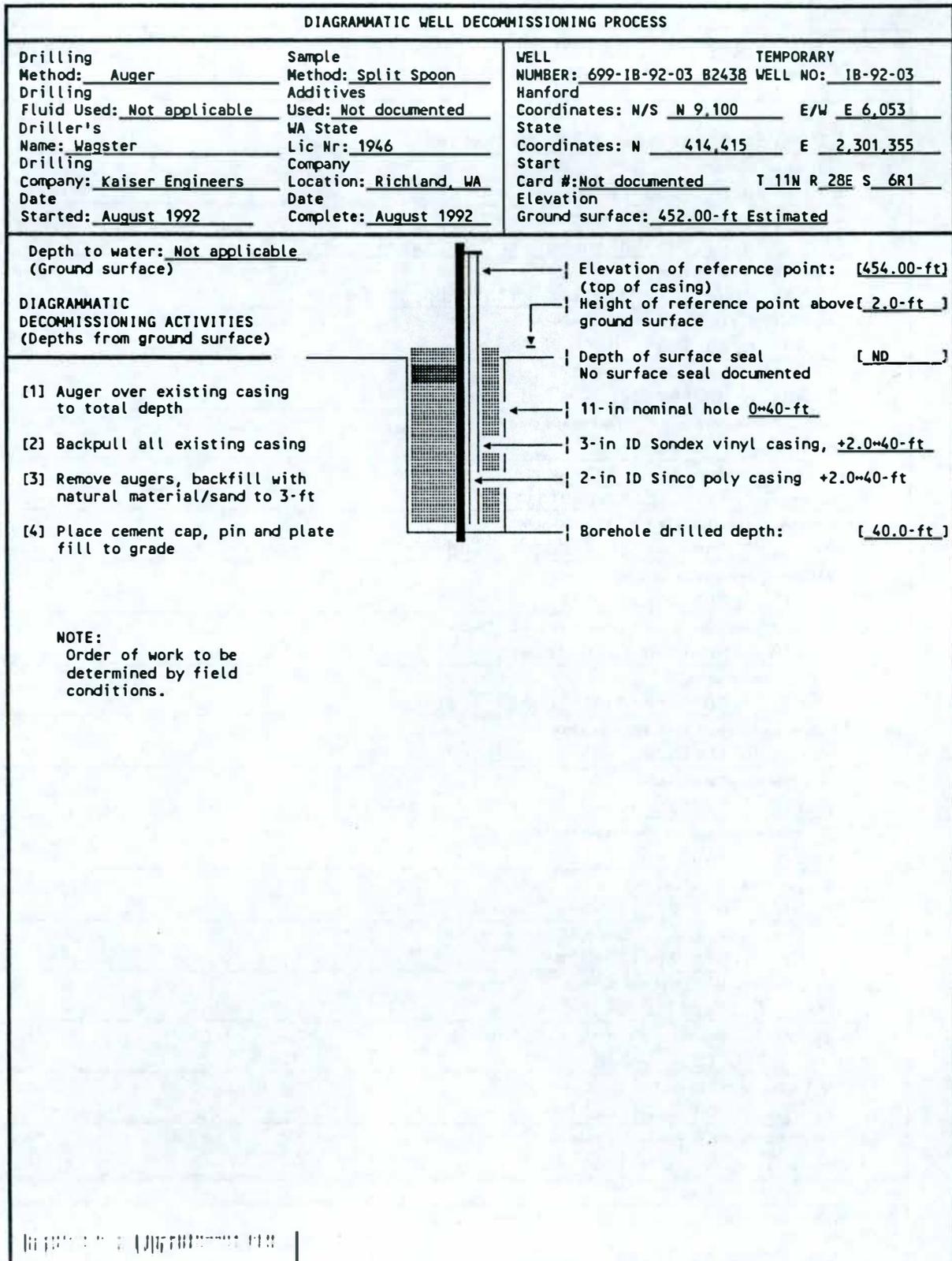
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-03</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) No potential user identified	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u>) Well not permanently capped	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) Not applicable	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u>) Not documented	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-03 82438</u> TEMPORARY BWIP WELL NO: <u>1B-92-03</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,053</u> State Coordinates: N <u>414,415</u> E <u>2,301,355</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log 0~41-ft No log available	<p>The diagram shows a vertical well casing structure. From top to bottom, it consists of: - A top section labeled 'Elevation of reference point: [454.00-ft] (top of casing)'. - A section labeled 'Height of reference point above [2.0-ft] ground surface'. - A section labeled 'Depth of surface seal [ND] No surface seal documented'. - An '11-in nominal hole 0~41-ft' section. - A '3-in ID Sondex vinyl casing, +2.0~41-ft' section. - A '2-in ID Sinco poly casing +2.0~41-ft' section. - A bottom section labeled 'Borehole drilled depth: [40.0-ft]'.</p>	Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above [2.0-ft] ground surface Depth of surface seal [ND] No surface seal documented 11-in nominal hole 0~41-ft 3-in ID Sondex vinyl casing, +2.0~41-ft 2-in ID Sinco poly casing +2.0~41-ft Borehole drilled depth: [40.0-ft]			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Drawing By: <u>TJW/6N1B9203,ASB</u></td> </tr> <tr> <td>Date : <u>14Apr95</u></td> </tr> <tr> <td>Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9203,ASB</u>	Date : <u>14Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9203,ASB</u>					
Date : <u>14Apr95</u>					
Reference : <u>None</u>					

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-04</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u>) <u>Not documented</u>	

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-04</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) Not applicable	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) Not applicable	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) Not applicable	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) Not applicable	
13. Data Sources Used: Logs: Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u> Geologist: <u>N/A</u> Date: _____ Company: _____ Geophysical: <u>N/A</u> Date: _____ Company: _____ Television: <u>N/A</u> Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u> Other: <u>Isolation Barrier Test Borings in support of WPPSS</u> _____ _____	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u> Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u>) <u>Not applicable</u> Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u> Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u> Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u> Other _____ (_____) _____	
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-04 B2439</u> TEMPORARY BWIP WELL NO: <u>1B-92-04</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,038</u> State Coordinates: N <u>414,415</u> E <u>2,301,340</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log					
0-41-ft No log available					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6NIB9204,ASB</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>14Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6NIB9204,ASB</u>	Date : <u>14Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6NIB9204,ASB</u>					
Date : <u>14Apr95</u>					
Reference : <u>None</u>					

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS					
<p>Drilling Method: <u>Auger</u></p> <p>Drilling Fluid Used: <u>Not applicable</u></p> <p>Driller's Name: <u>Wagster</u></p> <p>Drilling Company: <u>Kaiser Engineers</u></p> <p>Date Started: <u>August 1992</u></p>	<p>Sample Method: <u>Split Spoon</u></p> <p>Additives Used: <u>Not documented</u></p> <p>WA State Lic Nr: <u>1946</u></p> <p>Company Location: <u>Richland, WA</u></p> <p>Date Complete: <u>August 1992</u></p>	<p>WELL NUMBER: <u>699-1B-92-04 B2439</u> TEMPORARY WELL NO: <u>1B-92-04</u></p> <p>Hanford</p> <p>Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,038</u></p> <p>State Coordinates: N <u>414,415</u> E <u>2,301,340</u></p> <p>Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u></p> <p>Elevation Ground surface: <u>452.00-ft Estimated</u></p>			
<p>Depth to water: <u>Not applicable</u> (Ground surface)</p>					
<p>DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)</p>					
<p>[1] Auger over existing casing to total depth</p> <p>[2] Backpull all existing casing</p> <p>[3] Remove augers, backfill with natural material/sand to 3-ft</p> <p>[4] Place cement cap, pin and plate fill to grade</p>	<p>The diagram shows a vertical well casing structure. From top to bottom, it consists of: a top section with a cement cap and pin; a section of 3-inch ID Sondex vinyl casing (+2.0 to 44 feet); a section of 2-inch ID Sinco poly casing (+2.0 to 44 feet); and a bottom section of 11-inch nominal hole (0 to 44 feet). A surface seal is indicated as 'No surface seal documented'. The borehole drilled depth is shown as 44.0 feet. The elevation of the reference point (top of casing) is 454.00 feet, which is 2.0 feet above the ground surface.</p>	<p>Elevation of reference point: <u>[454.00-ft]</u> (top of casing)</p> <p>Height of reference point above <u>[2.0-ft]</u> ground surface</p> <p>Depth of surface seal <u>[ND]</u> No surface seal documented</p> <p>11-in nominal hole <u>0-44-ft</u></p> <p>3-in ID Sondex vinyl casing, <u>+2.0-44-ft</u></p> <p>2-in ID Sinco poly casing <u>+2.0-44-ft</u></p> <p>Borehole drilled depth: <u>[44.0-ft]</u></p>			
<p>NOTE: Order of work to be determined by field conditions.</p>					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N1B9204,PLN</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>17Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9204,PLN</u>	Date : <u>17Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9204,PLN</u>					
Date : <u>17Apr95</u>					
Reference : <u>None</u>					

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-05</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No potential user identified	
3. Is well presently in use? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u> <input type="checkbox"/> Well not permanently capped	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not documented	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-05</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-540?</p> <p><input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions?</p> <p><input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.</p> <p><input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11c. Well has been developed.</p> <p><input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture.</p> <p><input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.</p> <p><input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>13. Data Sources Used:</p> <p>Logs:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Driller's: <u>Kaiser Hanford</u></td> <td style="width: 20%;">Date: <u>08/00/92</u></td> <td style="width: 50%;">Company: <u>Wagster</u></td> </tr> <tr> <td>Geologist: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Geophysical: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Television: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> </table> <p>Publications: Title, Author, Date</p> <p><u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases:</p> <p><u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other:</p> <p><u>Isolation Barrier Test Borings in support of WPPSS</u></p>		Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>	Geologist: <u>N/A</u>	Date: _____	Company: _____	Geophysical: <u>N/A</u>	Date: _____	Company: _____	Television: <u>N/A</u>	Date: _____	Company: _____						
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>																	
Geologist: <u>N/A</u>	Date: _____	Company: _____																	
Geophysical: <u>N/A</u>	Date: _____	Company: _____																	
Television: <u>N/A</u>	Date: _____	Company: _____																	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p>																			
<p>15. Status</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 45%;">Well is acceptable for intended use</td> <td style="width: 10%;"><input type="checkbox"/> <u>No</u></td> <td style="width: 45%;">) <u>Well lacks seals</u></td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td><input type="checkbox"/> <u>NA</u></td> <td>) <u>Not applicable</u></td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>) <u>Not applicable</u></td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>) <u>Well has no identified user</u></td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td><input type="checkbox"/> <u>Yes</u></td> <td>) <u>Well has no identified need</u></td> </tr> <tr> <td>Other _____</td> <td><input type="checkbox"/> _____</td> <td>) _____</td> </tr> </table> <p>16. Status Recommendation</p> <p>Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>		Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u>	Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>) <u>Not applicable</u>	Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>) <u>Not applicable</u>	Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u>	Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u>	Other _____	<input type="checkbox"/> _____) _____
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u>																	
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>) <u>Not applicable</u>																	
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>) <u>Not applicable</u>																	
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u>																	
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u>																	
Other _____	<input type="checkbox"/> _____) _____																	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-18-92-05 B2440</u> TEMPORARY BWIP WELL NO: <u>18-92-05</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,023</u> State Coordinates: N <u>414,415</u> E <u>2,301,325</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log		Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0-40-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0-40-ft</u> 2-in ID Sinco poly casing <u>+2.0-40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u>
0-41-ft No log available		
Drawing By: <u>TJW/6N189205,ASB</u> Date : <u>14Apr95</u> Reference : <u>None</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-05 B2440</u> TEMPORARY WELL NO: <u>1B-92-05</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,023</u> State Coordinates: N <u>414,415</u> E <u>2,301,325</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft</u> Estimated
Depth to water: <u>Not applicable</u> (Ground surface)		
DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)		
[1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade		Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0-40-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0-40-ft</u> 2-in ID Sinco poly casing <u>+2.0-40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u>
NOTE: Order of work to be determined by field conditions.		
Drawing By: <u>TJW/6N1B9205_PLN</u> Date : <u>17Apr95</u> Reference : <u>None</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-06</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-0757 <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-0857 <input type="checkbox"/> <u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-5007 <input type="checkbox"/> <u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-3037 <input type="checkbox"/> <u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-5107 <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-5207 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-5307 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened Interval documented? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u>) <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-06</u>
Page 2 of 2	
<p>11. Is design and construction IAW WAC 173-160-540?</p> <p>(<u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions?</p> <p>(<u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.</p> <p>(<u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed.</p> <p>(<u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture.</p> <p>(<u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.</p> <p>(<u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used:</p> <p>Logs:</p> <p>Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u></p> <p>Geologist: <u>N/A</u> Date: _____ Company: _____</p> <p>Geophysical: <u>N/A</u> Date: _____ Company: _____</p> <p>Television: <u>N/A</u> Date: _____ Company: _____</p> <p>Publications: Title, Author, Date</p> <p><u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases:</p> <p><u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other:</p> <p><u>Isolation Barrier Test Borings in support of WPPSS</u></p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use (<u>No</u>) <u>Well lacks seals</u></p> <p>Well is acceptable for intended use if variance is granted (<u>NA</u>) <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use (<u>No</u>) <u>Not applicable</u></p> <p>Remediation required to achieve intended use (<u>No</u>) <u>Well has no identified user</u></p> <p>Decommission, well is unneeded or cannot be remediated (<u>Yes</u>) <u>Well has no identified need</u></p> <p>Other _____ (_____) _____</p>	
<p>16. Status Recommendation</p> <p>Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-06 B2441</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,008</u> State Coordinates: N <u>414.415</u> E <u>2,301.310</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
TEMPORARY BWIP WELL NO: <u>1B-92-06</u>		
Depth to water: <u>Not applicable</u> (Ground surface)		
GENERALIZED Driller's STRATIGRAPHY Log		
0-41-ft No log available		
<p>The diagram illustrates a well construction with the following details from top to bottom:</p> <ul style="list-style-type: none"> Elevation of reference point (top of casing): [454.00-ft] Height of reference point above ground surface: [2.0-ft] Depth of surface seal: [ND] (No surface seal documented) 11-in nominal hole: 0-40-ft 3-in ID Sondex vinyl casing: +2.0-40-ft 2-in ID Sinco poly casing: +2.0-40-ft Borehole drilled depth: [40.0-ft] 		
Drawing By: <u>TJW/6N1B9206,ASB</u> Date: <u>14Apr95</u> Reference: <u>None</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS					
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-18-92-06 B2441</u> TEMPORARY WELL NO: <u>18-92-06</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,008</u> State Coordinates: N <u>414,415</u> E <u>2,301,3310</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<p>The diagram shows a vertical cross-section of a well. From top to bottom, it features: a reference point at 454.00-ft (top of casing), a 2.0-ft height of reference point above ground surface, a surface seal (depth ND), an 11-in nominal hole (0-40-ft), a 3-in ID Sondex vinyl casing (+2.0-40-ft), and a 2-in ID Sinco poly casing (+2.0-40-ft). The total borehole drilled depth is 40.0-ft.</p>				
<ol style="list-style-type: none"> [1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade 	<p>NOTE: Order of work to be determined by field conditions.</p>				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N189206,PLN</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>17Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N189206,PLN</u>	Date : <u>17Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N189206,PLN</u>					
Date : <u>17Apr95</u>					
Reference : <u>None</u>					

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-07</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ; No potential user identified	
3. Is well presently in use? <input type="checkbox"/> <u>No</u> ; No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> ; No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> ; Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> ; No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> ; No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u> ; Well not permanently capped	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> ; No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ; Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> <u>No</u> ; No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> ; No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> ; Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u> ; Not documented	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-07</u>
Page 2 of 2	
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>13. Data Sources Used: Logs: Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u> Geologist: <u>N/A</u> Date: _____ Company: _____ Geophysical: <u>N/A</u> Date: _____ Company: _____ Television: <u>N/A</u> Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other: <u>Isolation Barrier Test Borings in support of WPPSS</u></p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) Well lacks seals</p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u>) Not applicable</p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) Not applicable</p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) Well has no identified user</p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) Well has no identified need</p> <p>Other _____ <input type="checkbox"/> _____</p>	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-07 B2442</u> TEMPORARY BWIP WELL NO: <u>1B-92-07</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,000</u> State Coordinates: N <u>414,415</u> E <u>2,301,302</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log	<p style="text-align: right; margin-right: 20px;"> Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above [2.0-ft] ground surface Depth of surface seal [ND] No surface seal documented 11-in nominal hole 0~40-ft 2-in ID Sinco poly casing +2.0~40-ft Borehole drilled depth: [40.0-ft] </p>				
0~41-ft No log available					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N1B9207,ASB</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>13Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9207,ASB</u>	Date : <u>13Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9207,ASB</u>					
Date : <u>13Apr95</u>					
Reference : <u>None</u>					

WHC-SD-EN-AP-161, Rev 0, Appendix D

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-07 B2442</u> TEMPORARY WELL NO: <u>1B-92-07</u> Hanford Coordinates: N/S <u>N 9,100</u> E/W <u>E 6,000</u> State Coordinates: N <u>414,415</u> E <u>2,301,302</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)		
[1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate, fill to grade	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0~40-ft</u> 2-in ID Sinco poly casing <u>+2.0~40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u>	
NOTE: Order of work to be determined by field conditions.		
Drawing By: <u>TJW/6N1B9207,PLN</u> Date : <u>17Apr95</u> Reference : <u>None</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-08</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u>) <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-08</u>
Page 2 of 2	
<p>11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>13. Data Sources Used: Logs: Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u> Geologist: <u>N/A</u> Date: _____ Company: _____ Geophysical: <u>N/A</u> Date: _____ Company: _____ Television: <u>N/A</u> Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other: <u>Isolation Barrier Test Borings in support of WPPSS</u></p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Well lacks seals</p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u> <input type="checkbox"/> Not applicable</p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Not applicable</p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Well has no identified user</p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> Well has no identified need</p> <p>Other _____ <input type="checkbox"/> _____</p>	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>	

WHC-SD-EN-AP-161, Rev 0, Appendix D

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-08 82443</u> TEMPORARY BWIP WELL NO: <u>1B-92-08</u> Hanford Coordinates: N/S <u>N 9,115</u> E/W <u>E 6,073</u> State Coordinates: N <u>414,430</u> E <u>2,301,375</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>	
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log	<p>The diagram shows a vertical well casing. At the top, an arrow points to the 'Elevation of reference point: [454.00-ft] (top of casing)'. Below this, another arrow points to the 'Height of reference point above [2.0-ft] ground surface'. Further down, an arrow points to the 'Depth of surface seal [ND]', with a note 'No surface seal documented'. Below that, an arrow points to the '11-in nominal hole 0~40-ft'. Further down, an arrow points to the '2-in ID Sinco poly casing +2.0~40-ft'. At the bottom, an arrow points to the 'Borehole drilled depth: [40.0-ft]'.</p>		
0~41-ft No log available			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Drawing By: <u>TJW/6N1B9208,ASB</u> Date : <u>13Apr95</u> Reference : <u>None</u> </td> </tr> </table>			Drawing By: <u>TJW/6N1B9208,ASB</u> Date : <u>13Apr95</u> Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9208,ASB</u> Date : <u>13Apr95</u> Reference : <u>None</u>			

WHC-SD-EN-AP-161, Rev 0, Appendix D

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS			
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-08 B2443</u> TEMPORARY WELL NO: <u>1B-92-08</u> Hanford Coordinates: N/S <u>N 9,115</u> E/W <u>E 6,073</u> State Coordinates: N <u>414,430</u> E <u>2,301,375</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>	
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<p>The diagram shows a vertical well casing and borehole. A ground surface line is indicated. Key features include: - Elevation of reference point (top of casing): [454.00-ft] - Height of reference point above ground surface: [2.0-ft] - Depth of surface seal: [ND] (No surface seal documented) - 11-in nominal hole depth: 0~40-ft - 2-in ID Sinco poly casing depth: +2.0~40-ft - Borehole drilled depth: [40.0-ft] - Step [1]: Auger over existing casing to total depth. - Step [2]: Backpull all existing casing. - Step [3]: Remove augers, backfill with natural material/sand to 3-ft. - Step [4]: Place cement cap, pin and plate, fill to grade.</p>	(1) Auger over existing casing to total depth (2) Backpull all existing casing (3) Remove augers, backfill with natural material/sand to 3-ft (4) Place cement cap, pin and plate, fill to grade	
NOTE: Order of work to be determined by field conditions.			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Drawing By: <u>TJW/6N1B9208,PLN</u> Date: <u>17Apr95</u> Reference: <u>None</u> </td> </tr> </table>			Drawing By: <u>TJW/6N1B9208,PLN</u> Date: <u>17Apr95</u> Reference: <u>None</u>
Drawing By: <u>TJW/6N1B9208,PLN</u> Date: <u>17Apr95</u> Reference: <u>None</u>			

WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-09</u>
	Page 1 of 2

2. Has a need for use of the well been identified and documented?
 No) No potential user identified

3. Is well presently in use?
 No) No use identified

4. Is casing sealed in accordance with IAW WAC 173-160-075?
 No) No documentation of annular seal

4a. Natural barriers preserved?
 N/A) Well terminates within upper sediment

4b. Aquifer/strata penetrated permanently sealed?
 No) No seals documented

4c. Annulus sealed against surface water?
 No) No surface seal documented

4d. Casing overlap more than 8 ft; packed and grouted?
 N/A) Not applicable

5. If not in use, is well capped IAW WAC 173-160-085?
 NO) Well not permanently capped

6. Is design and construction IAW WAC 173-160-500?
 No) No annular seal documented

6a. Saturated formation/aquifers not connected?
 N/A) Not applicable

6b. Cuttings/development water handled IAW WAC 173-303?
 N/A) Drilled with augers

6c. Well properly identified?
 No) No permanent identification

7. Is surface protection IAW WAC 173-160-510?
 No) No surface seal documented

7a. Well capped and protected?
 Yes) Capped no posts or pad present

7b. Protective posts, surface pad or cover installed?
 N/A) Not applicable

7c. Surface protection waived or variance obtained?
 N/A) Not applicable

7d. Is existing surface protection damaged?
 N/A) Not applicable

8. Are casing materials IAW 173-160-520?
 N/A) Not applicable

9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?
 N/A) Not applicable

9a. Drill rig/equipment casing/screen cleaned?
 N/A) Not applicable

9b. Filter pack cleaned? Material compatible?
 N/A) Not applicable

RCRA/CERCLA MONITORING WELL?

10. Does water sample from vertical screened interval represent horizontal stratigraphy?
 N/A) Not applicable

10a. Screened interval documented?
 N/A) Not applicable

10b. Vertical lithology documented?
 N/A) Not documented

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-1B-92-09</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u>) Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) Not applicable	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) Not applicable	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) Not applicable	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) Not applicable	
13. Data Sources Used: Logs: Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u> Geologist: <u>N/A</u> Date: _____ Company: _____ Geophysical: <u>N/A</u> Date: _____ Company: _____ Television: <u>N/A</u> Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u> Other: <u>Isolation Barrier Test Borings in support of WPPSS</u> _____ _____	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u> Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u>) <u>Not applicable</u> Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u>) <u>Not applicable</u> Remediation required to achieve intended use <input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u> Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u> Other _____ (_____) _____	
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u>	

WHC-SD-EN-AP-161, Rev 0, Appendix D

WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-09 B2444</u> TEMPORARY BWIP WELL NO: <u>1B-92-09</u> Hanford Coordinates: N/S <u>N 9,112</u> E/W <u>E 6,066</u> State Coordinates: N <u>414,427</u> E <u>2,301,368</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log 0-41-ft No log available	<p>The diagram shows a vertical well casing structure. From top to bottom, it consists of: - An elevation of reference point at 454.00-ft (top of casing). - A 2.0-ft height of reference point above ground surface. - A depth of surface seal (No surface seal documented). - An 11-in nominal hole section from 0 to 40-ft. - A 3-in ID Sondex vinyl casing section from +2.0 to 40-ft. - A 2-in ID Sinco poly casing section from +2.0 to 40-ft. - A total borehole drilled depth of 40.0-ft.</p>	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0-40-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0-40-ft</u> 2-in ID Sinco poly casing <u>+2.0-40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u>
Drawing By: <u>TJW/6N1B9209,ASB</u> Date: <u>13Apr95</u> Reference: <u>None</u>		

WHC-SD-EN-AP-161, Rev 0, Appendix D

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS					
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-09 B2444</u> TEMPORARY WELL NO: <u>1B-92-09</u> Hanford Coordinates: N/S <u>N 9,112</u> E/W <u>E 6,066</u> State Coordinates: N <u>414,427</u> E <u>2,301,368</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface)					
DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)					
[1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade	<p>The diagram shows a vertical cross-section of a well. From top to bottom, it features: a reference point at 454.00-ft (top of casing), a 2.0-ft height above ground surface, a surface seal (depth ND), an 11-in nominal hole (0-40-ft), a 3-in ID Sondex vinyl casing (+2.0-40-ft), and a 2-in ID Sinco poly casing (+2.0-40-ft). The total borehole drilled depth is 40.0-ft.</p>	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0-40-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0-40-ft</u> 2-in ID Sinco poly casing <u>+2.0-40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u>			
NOTE: Order of work to be determined by field conditions.					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N1B9209,PLN</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>17Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9209,PLN</u>	Date : <u>17Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9209,PLN</u>					
Date : <u>17Apr95</u>					
Reference : <u>None</u>					

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. 699-IB-92-10 Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> No <input type="checkbox"/> No potential user identified	
3. Is well presently in use? <input type="checkbox"/> No <input type="checkbox"/> No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-0757? <input type="checkbox"/> No <input type="checkbox"/> No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> N/A <input type="checkbox"/> Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> No <input type="checkbox"/> No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
5. If not in use, is well capped IAW WAC 173-160-0857? <input type="checkbox"/> NO <input type="checkbox"/> Well not permanently capped	
6. Is design and construction IAW WAC 173-160-5007? <input type="checkbox"/> No <input type="checkbox"/> No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
6b. Cuttings/development water handled IAW WAC 173-3037? <input type="checkbox"/> N/A <input type="checkbox"/> Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> No <input type="checkbox"/> No permanent identification	
7. Is surface protection IAW WAC 173-160-5107? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> Yes <input type="checkbox"/> Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
8. Are casing materials IAW 173-160-5207? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-5307? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10a. Screened interval documented? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> N/A <input type="checkbox"/> Not documented	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-10</u> Page 2 of 2
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11. Is design and construction IAW WAC 173-160-5407
 N/A) Not applicable

11a. Screen commercially fabricated of material nonreactive to subsurface conditions?
 N/A) Not applicable

11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.
 N/A) Not applicable

11c. Well has been developed.
 N/A) Not applicable

11d. Annulus grouted with bentonite or bentonite/cement mixture.
 N/A) Not applicable

12. Does water sample meet established acceptance criteria?
 Sample is less than 5 NTU and sand free.
 N/A) Not applicable

13. Data Sources Used:

Logs:

Driller's: Kaiser Hanford Date: 08/00/92 Company: Wagster
 Geologist: N/A Date: _____ Company: _____
 Geophysical: N/A Date: _____ Company: _____
 Television: N/A Date: _____ Company: _____

Publications: Title, Author, Date
HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993

Databases:
WHC Well Services

Field Check: WHC Well Services Date: 04/12/95 Company: WHC

Other:
Isolation Barrier Test Borings in support of WPPSS

14. Comments: Identify evaluation criteria addressed by number:

15. Status

Well is acceptable for intended use No) Well lacks seals

Well is acceptable for intended use if variance is granted NA) Not applicable

Rehabilitation required to continue intended use No) Not applicable

Remediation required to achieve intended use No) Well has no identified user

Decommission, well is unneeded or cannot be remediated Yes) Well has no identified need

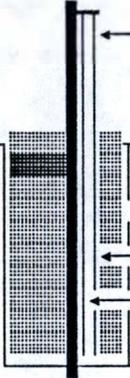
Other _____ _____) _____

16. Status Recommendation
 Done By: Name: T. J. Wood Title: Senior Engineer Date: 04/18/95

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WELL CONSTRUCTION AND COMPLETION SUMMARY																						
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-18-92-10 B2445</u> TEMPORARY BWIP WELL NO: <u>18-92-10</u> Hanford Coordinates: N/S <u>N 9,111</u> E/W <u>E 6,051</u> State Coordinates: N <u>414,426</u> E <u>2,301,353</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>																				
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log																						
<u>0~41-ft No log available</u>	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%; border: none;"> </td> <td style="border: none;">Elevation of reference point: <u>[454.00-ft]</u></td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">(top of casing)</td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">Height of reference point above <u>[2.0-ft]</u></td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">ground surface</td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">Depth of surface seal <u>[ND]</u></td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">No surface seal documented</td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">11-in nominal hole <u>0~40-ft</u></td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">3-in ID Sondex vinyl casing, <u>+2.0~40-ft</u></td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">2-in ID Sinco poly casing <u>+2.0~40-ft</u></td> </tr> <tr> <td style="border: none;"> </td> <td style="border: none;">Borehole drilled depth: <u>[40.0-ft]</u></td> </tr> </table>			Elevation of reference point: <u>[454.00-ft]</u>		(top of casing)		Height of reference point above <u>[2.0-ft]</u>		ground surface		Depth of surface seal <u>[ND]</u>		No surface seal documented		11-in nominal hole <u>0~40-ft</u>		3-in ID Sondex vinyl casing, <u>+2.0~40-ft</u>		2-in ID Sinco poly casing <u>+2.0~40-ft</u>		Borehole drilled depth: <u>[40.0-ft]</u>
	Elevation of reference point: <u>[454.00-ft]</u>																					
	(top of casing)																					
	Height of reference point above <u>[2.0-ft]</u>																					
	ground surface																					
	Depth of surface seal <u>[ND]</u>																					
	No surface seal documented																					
	11-in nominal hole <u>0~40-ft</u>																					
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	2-in ID Sinco poly casing <u>+2.0~40-ft</u>																					
	Borehole drilled depth: <u>[40.0-ft]</u>																					
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%; border: none;">Drawing By: <u>TJW/6NIB9210,ASB</u></td> </tr> <tr> <td style="border: none;">Date : <u>14Apr95</u></td> </tr> <tr> <td style="border: none;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6NIB9210,ASB</u>	Date : <u>14Apr95</u>	Reference : <u>None</u>																	
Drawing By: <u>TJW/6NIB9210,ASB</u>																						
Date : <u>14Apr95</u>																						
Reference : <u>None</u>																						

WHC-SD-EN-AP-161, Rev 0, Appendix D

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS			
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-18-92-10 B2445</u> TEMPORARY WELL NO: <u>18-92-10</u> Hanford Coordinates: N/S <u>N 9,111</u> E/W <u>E 6,051</u> State Coordinates: N <u>414,426</u> E <u>2,301,353</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft</u> Estimated	
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<ol style="list-style-type: none"> [1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade 	 <p style="font-size: small;"> Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0**40-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0**40-ft</u> 2-in ID Sinco poly casing <u>+2.0**40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u> </p>	
<p>NOTE: Order of work to be determined by field conditions.</p>			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"> Drawing By: <u>TJW/6N1B9210,PLN</u> Date : <u>17Apr95</u> Reference : <u>None</u> </td> </tr> </table>			Drawing By: <u>TJW/6N1B9210,PLN</u> Date : <u>17Apr95</u> Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9210,PLN</u> Date : <u>17Apr95</u> Reference : <u>None</u>			

WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-11</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u>) <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-11</u>
Page 2 of 2	

11. Is design and construction IAW WAC 173-160-540?
 N/A) Not applicable

11a. Screen commercially fabricated of material nonreactive to subsurface conditions?
 N/A) Not applicable

11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.
 N/A) Not applicable

11c. Well has been developed.
 N/A) Not applicable

11d. Annulus grouted with bentonite or bentonite/cement mixture.
 N/A) Not applicable

12. Does water sample meet established acceptance criteria?
 Sample is less than 5 NTU and sand free.
 N/A) Not applicable

13. Data Sources Used:

Logs:

Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>
Geologist: <u>N/A</u>	Date: _____	Company: _____
Geophysical: <u>N/A</u>	Date: _____	Company: _____
Television: <u>N/A</u>	Date: _____	Company: _____

Publications: Title, Author, Date
HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993

Databases:
WHC Well Services

Field Check: WHC Well Services Date: 04/12/95 Company: WHC

Other:
Isolation Barrier Test Borings in support of WPPSS

14. Comments: Identify evaluation criteria addressed by number:

15. Status

Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	Well lacks seals
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	Not applicable
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	Not applicable
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	Well has no identified user
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	Well has no identified need
Other _____	<input type="checkbox"/> _____	_____

16. Status Recommendation
 Done By: Name: T. J. Wood Title: Senior Engineer Date: 04/18/95

WHC-SD-EN-AP-161, Rev 0, Appendix D

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-18-92-11 B2446</u> TEMPORARY BWIP WELL NO: <u>18-92-11</u> Hanford Coordinates: N/S <u>M 9,115</u> E/W <u>E 6,038</u> State Start Coordinates: N <u>414,430</u> E <u>2,301,340</u> Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>	
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log 0-41-ft No log available		Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0-42-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0-42-ft</u> 2-in ID Sinco poly casing <u>+2.0-42-ft</u> Borehole drilled depth: <u>[42.0-ft]</u>	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Drawing By: <u>TJW/6N189211.ASB</u> Date : <u>14Apr95</u> Reference : <u>None</u> </td> </tr> </table>			Drawing By: <u>TJW/6N189211.ASB</u> Date : <u>14Apr95</u> Reference : <u>None</u>
Drawing By: <u>TJW/6N189211.ASB</u> Date : <u>14Apr95</u> Reference : <u>None</u>			

WHC-SD-EN-AP-161, Rev 0, Appendix D

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS					
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-11 B2446</u> TEMPORARY BWIP WELL NO: <u>1B-92-11</u> Hanford Coordinates: N/S <u>N 9,115</u> E/W <u>E 6,038</u> State Coordinates: N <u>414,430</u> E <u>2,301,340</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface)	<p>The diagram shows a vertical well casing structure. From top to bottom, it consists of: an 11-inch nominal hole (0 to 42 feet), a 3-inch ID Sondex vinyl casing (+2.0 to 42 feet), and a 2-inch ID Sinco poly casing (+2.0 to 42 feet). The total borehole drilled depth is 42.0 feet. A surface seal is indicated as 'No surface seal documented'. The elevation of the reference point (top of casing) is 454.00 feet, and the height of the reference point above the ground surface is 2.0 feet.</p>				
DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0-42-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0-42-ft</u> 2-in ID Sinco poly casing <u>+2.0-42-ft</u> Borehole drilled depth: <u>[42.0-ft]</u>				
[1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade	NOTE: Order of work to be determined by field conditions.				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6M1B9211,PLN</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>17Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6M1B9211,PLN</u>	Date : <u>17Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6M1B9211,PLN</u>					
Date : <u>17Apr95</u>					
Reference : <u>None</u>					

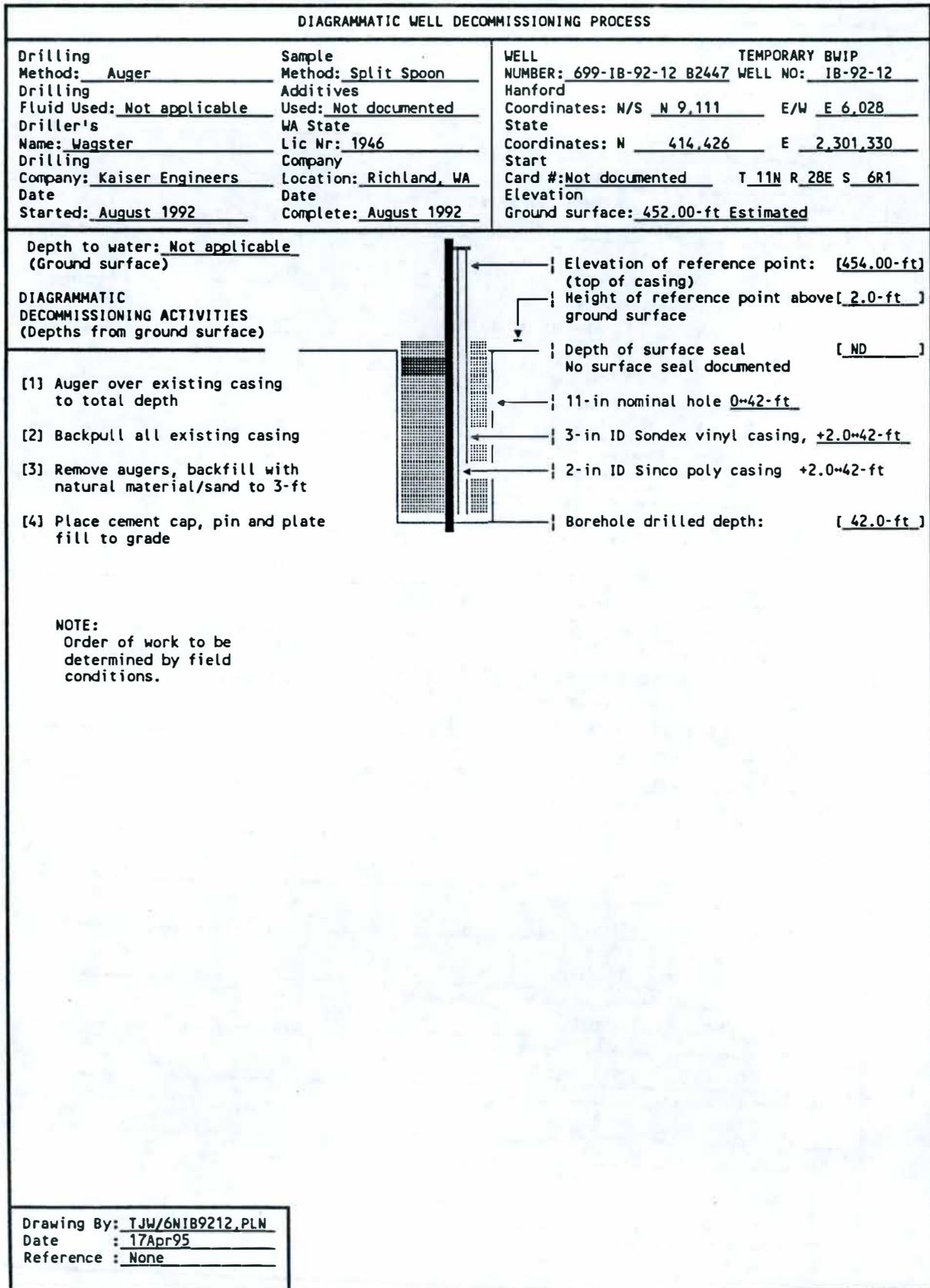
WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-12</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> No <input type="checkbox"/> No potential user identified	
3. Is well presently in use? <input type="checkbox"/> No <input type="checkbox"/> No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-0757? <input type="checkbox"/> No <input type="checkbox"/> No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> N/A <input type="checkbox"/> Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> No <input type="checkbox"/> No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
5. If not in use, is well capped IAW WAC 173-160-0857? <input type="checkbox"/> NO <input type="checkbox"/> Well not permanently capped	
6. Is design and construction IAW WAC 173-160-5007? <input type="checkbox"/> No <input type="checkbox"/> No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
6b. Cuttings/development water handled IAW WAC 173-3037? <input type="checkbox"/> N/A <input type="checkbox"/> Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> No <input type="checkbox"/> No permanent identification	
7. Is surface protection IAW WAC 173-160-5107? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> Yes <input type="checkbox"/> Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
8. Are casing materials IAW 173-160-5207? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-5307? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10a. Screened interval documented? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> N/A <input type="checkbox"/> Not documented	

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WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-12 B2447</u> TEMPORARY BWIP WELL NO: <u>1B-92-12</u> Hanford State Coordinates: N/S <u>N 9,111</u> E/W <u>E 6,028</u> Start Coordinates: N <u>414,426</u> E <u>2,301,330</u> Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>	
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log <u>0~41-ft No log available</u>	<p>The diagram shows a vertical well casing with several layers. From top to bottom: a 3-inch ID Sondex vinyl casing (+2.0~42-ft), a 2-inch ID Sinco poly casing (+2.0~42-ft), and an 11-inch nominal hole (0~42-ft). A surface seal is indicated as 'No surface seal documented'. The borehole drilled depth is 42.0-ft. The top of the casing is at an elevation of 454.00-ft, which is 2.0-ft above the ground surface (452.00-ft).</p>	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above: <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0~42-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0~42-ft</u> 2-in ID Sinco poly casing <u>+2.0~42-ft</u> Borehole drilled depth: <u>[42.0-ft]</u>	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Drawing By: <u>TJW/6N1B9212,ASB</u> Date : <u>14Apr95</u> Reference : <u>None</u> </td> </tr> </table>			Drawing By: <u>TJW/6N1B9212,ASB</u> Date : <u>14Apr95</u> Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9212,ASB</u> Date : <u>14Apr95</u> Reference : <u>None</u>			

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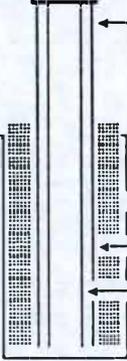
WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-13</u>
Page 1 of 2	
<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>No potential user identified</u></p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>No use identified</u></p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>No documentation of annular seal</u></p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Well terminates within upper sediment</u></p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>No seals documented</u></p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>No surface seal documented</u></p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u> <input type="checkbox"/> <u>Well not permanently capped</u></p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>No annular seal documented</u></p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Drilled with augers</u></p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>No permanent identification</u></p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> <input type="checkbox"/> <u>No surface seal documented</u></p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>Capped no posts or pad present</u></p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>10a. Screened Interval documented? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not documented</u></p>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-13</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>13. Data Sources Used: Logs: Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u> Geologist: <u>N/A</u> Date: _____ Company: _____ Geophysical: <u>N/A</u> Date: _____ Company: _____ Television: <u>N/A</u> Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> _____ Databases: <u>WHC Well Services</u> Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u> Other: <u>Isolation Barrier Test Borings in support of WPPSS</u> _____</p>																			
<p>14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____</p>																			
<p>15. Status</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Well is acceptable for intended use</td> <td style="width: 10%; text-align: center;">(<u>No</u>)</td> <td style="width: 40%;">Well lacks seals</td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td style="text-align: center;">(<u>NA</u>)</td> <td>Not applicable</td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td style="text-align: center;">(<u>No</u>)</td> <td>Not applicable</td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td style="text-align: center;">(<u>No</u>)</td> <td>Well has no identified user</td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td style="text-align: center;">(<u>Yes</u>)</td> <td>Well has no identified need</td> </tr> <tr> <td>Other</td> <td style="text-align: center;">(_____)</td> <td>_____</td> </tr> </table>		Well is acceptable for intended use	(<u>No</u>)	Well lacks seals	Well is acceptable for intended use if variance is granted	(<u>NA</u>)	Not applicable	Rehabilitation required to continue intended use	(<u>No</u>)	Not applicable	Remediation required to achieve intended use	(<u>No</u>)	Well has no identified user	Decommission, well is unneeded or cannot be remediated	(<u>Yes</u>)	Well has no identified need	Other	(_____)	_____
Well is acceptable for intended use	(<u>No</u>)	Well lacks seals																	
Well is acceptable for intended use if variance is granted	(<u>NA</u>)	Not applicable																	
Rehabilitation required to continue intended use	(<u>No</u>)	Not applicable																	
Remediation required to achieve intended use	(<u>No</u>)	Well has no identified user																	
Decommission, well is unneeded or cannot be remediated	(<u>Yes</u>)	Well has no identified need																	
Other	(_____)	_____																	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>																			

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-13 B2448</u> TEMPORARY BWIP Hanford WELL NO: <u>1B-92-13</u> Coordinates: N/S <u>N 9,112</u> E/W <u>E 6,010</u> State Coordinates: N <u>414,427</u> E <u>2,301,312</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log	 <p style="font-size: small;">A schematic diagram of a well casing and borehole. It shows a vertical shaft with several sections of casing. From top to bottom: a section of 3-inch ID Sondex vinyl casing (+2.0~41-ft), a section of 2-inch ID Sinco poly casing (+2.0~41-ft), and a borehole drilled depth of 41.0-ft. The diagram also indicates the elevation of the reference point (top of casing) at 454.00-ft and the height of the reference point above the ground surface at 2.0-ft. A surface seal is noted as 'No surface seal documented' with a depth of 'ND'.</p>	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0~41-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0~41-ft</u> 2-in ID Sinco poly casing <u>+2.0~41-ft</u> Borehole drilled depth: <u>[41.0-ft]</u>			
0~41-ft No log available					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N1B9213,ASB</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>14Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9213,ASB</u>	Date : <u>14Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9213,ASB</u>					
Date : <u>14Apr95</u>					
Reference : <u>None</u>					

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
<p>Drilling Method: <u>Auger</u></p> <p>Drilling Fluid Used: <u>Not applicable</u></p> <p>Driller's Name: <u>Wagster</u></p> <p>Drilling Company: <u>Kaiser Engineers</u></p> <p>Date Started: <u>August 1992</u></p>	<p>Sample Method: <u>Split Spoon</u></p> <p>Additives Used: <u>Not documented</u></p> <p>WA State Lic Nr: <u>1946</u></p> <p>Company Location: <u>Richland, WA</u></p> <p>Date Complete: <u>August 1992</u></p>	<p>WELL NUMBER: <u>699-1B-92-13 B2448</u> TEMPORARY WELL NO: <u>1B-92-13</u></p> <p>Hanford</p> <p>Coordinates: N/S <u>N 9,112</u> E/W <u>E 6,010</u></p> <p>State Coordinates: N <u>414,427</u> E <u>2,301,312</u></p> <p>Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u></p> <p>Elevation Ground surface: <u>452.00-ft Estimated</u></p>
<p>Depth to water: <u>Not applicable</u> (Ground surface)</p> <p>DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)</p> <ol style="list-style-type: none"> [1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade 	<p>The diagram shows a vertical well casing structure. From top to bottom, it consists of: - An 11-in nominal hole (0 to 41-ft depth). - A 3-in ID Sondex vinyl casing (+2.0 to 41-ft depth). - A 2-in ID Sinco poly casing (+2.0 to 41-ft depth). - A borehole drilled depth of 41.0-ft. A surface seal is indicated as 'No surface seal documented'.</p>	<p>Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface</p> <p>Depth of surface seal <u>[ND]</u> No surface seal documented</p> <p>11-in nominal hole <u>0 to 41-ft</u></p> <p>3-in ID Sondex vinyl casing, <u>+2.0 to 41-ft</u></p> <p>2-in ID Sinco poly casing <u>+2.0 to 41-ft</u></p> <p>Borehole drilled depth: <u>[41.0-ft]</u></p>
<p>NOTE: Order of work to be determined by field conditions.</p>		
<p>Drawing By: <u>TJW/6N1B9213,PLN</u> Date: <u>17Apr95</u> Reference: <u>None</u></p>		

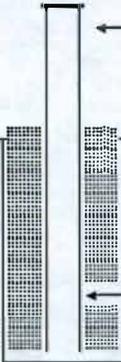
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-14</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-0757 <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-0857 <input type="checkbox"/> <u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-5007 <input type="checkbox"/> <u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-3037 <input type="checkbox"/> <u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-5107 <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-5207 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-5307 <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u>) <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-14</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-540?</p> <p><input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions?</p> <p><input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.</p> <p><input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11c. Well has been developed.</p> <p><input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture.</p> <p><input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.</p> <p><input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u></p> <p>13. Data Sources Used:</p> <p>Logs:</p> <table style="width:100%; border: none;"> <tr> <td style="width:50%;">Driller's: <u>Kaiser Hanford</u></td> <td style="width:15%;">Date: <u>08/00/92</u></td> <td style="width:35%;">Company: <u>Wagster</u></td> </tr> <tr> <td>Geologist: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Geophysical: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Television: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> </table> <p>Publications: Title, Author, Date</p> <p><u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases:</p> <p><u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other:</p> <p><u>Isolation Barrier Test Borings in support of WPPSS</u></p>		Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>	Geologist: <u>N/A</u>	Date: _____	Company: _____	Geophysical: <u>N/A</u>	Date: _____	Company: _____	Television: <u>N/A</u>	Date: _____	Company: _____						
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>																	
Geologist: <u>N/A</u>	Date: _____	Company: _____																	
Geophysical: <u>N/A</u>	Date: _____	Company: _____																	
Television: <u>N/A</u>	Date: _____	Company: _____																	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p>																			
<p>15. Status</p> <table style="width:100%; border: none;"> <tr> <td style="width:45%;">Well is acceptable for intended use</td> <td style="width:10%;"><input type="checkbox"/> <u>No</u></td> <td style="width:45%;">) <u>Well lacks seals</u></td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td><input type="checkbox"/> <u>NA</u></td> <td>) <u>Not applicable</u></td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>) <u>Not applicable</u></td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>) <u>Well has no identified user</u></td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td><input type="checkbox"/> <u>Yes</u></td> <td>) <u>Well has no identified need</u></td> </tr> <tr> <td>Other _____</td> <td><input type="checkbox"/> _____</td> <td>) _____</td> </tr> </table> <p>16. Status Recommendation</p> <p>Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>		Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u>	Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>) <u>Not applicable</u>	Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>) <u>Not applicable</u>	Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u>	Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u>	Other _____	<input type="checkbox"/> _____) _____
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u>																	
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>) <u>Not applicable</u>																	
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>) <u>Not applicable</u>																	
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u>																	
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u>																	
Other _____	<input type="checkbox"/> _____) _____																	

WHC-SD-EN-AP-161, Rev 0, Appendix D

WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-IB-92-14 B2449</u> TEMPORARY WELL NO: <u>IB-92-14</u> Hanford Coordinates: N/S <u>N 9,115</u> E/W <u>E 6,002</u> State Coordinates: N <u>414,430</u> E <u>2,301,304</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>	
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log 0-41-ft No log available	 <p style="margin-left: 20px;"> Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above ground surface: [2.0-ft] Depth of surface seal: [ND] No surface seal documented 11-in nominal hole 0-40-ft 2-in ID Sinco poly casing +2.0-40-ft Borehole drilled depth: [40.0-ft] </p>		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Drawing By: <u>TJW/6N1B9214, ASB</u> Date: <u>14Apr95</u> Reference: <u>None</u> </td> </tr> </table>			Drawing By: <u>TJW/6N1B9214, ASB</u> Date: <u>14Apr95</u> Reference: <u>None</u>
Drawing By: <u>TJW/6N1B9214, ASB</u> Date: <u>14Apr95</u> Reference: <u>None</u>			

WHC-SD-EN-AP-161, Rev 0, Appendix D

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL TEMPORARY NUMBER: <u>699-1B-92-14 B2449</u> WELL NO: <u>1B-92-14</u> Hanford Coordinates: N/S <u>N 9,115</u> E/W <u>E 6,002</u> State Coordinates: N <u>414,430</u> E <u>2,301,304</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<p>The diagram shows a vertical well casing. Section [4] is the top section, and section [3] is the lower section. Arrows point to various features: the top of the casing at 454.00-ft elevation, a 2.0-ft height above ground surface, a surface seal at ND (Not Documented), an 11-in nominal hole from 0 to 40-ft depth, a 2-in ID Sinco poly casing from +2.0 to 40-ft depth, and a borehole drilled depth of 40.0-ft.</p>	
<ol style="list-style-type: none"> [1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate, fill to grade 	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above ground surface: <u>[2.0-ft]</u> Depth of surface seal: <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0-40-ft</u> 2-in ID Sinco poly casing <u>+2.0-40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u>	
NOTE: Order of work to be determined by field conditions.		
Drawing By: <u>TJW/6NIB9214,PLN</u> Date: <u>18Apr95</u> Reference: <u>None</u>		

WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-15</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> No <input type="checkbox"/> No potential user identified	
3. Is well presently in use? <input type="checkbox"/> No <input type="checkbox"/> No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> No <input type="checkbox"/> No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> N/A <input type="checkbox"/> Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> No <input type="checkbox"/> No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> NO <input type="checkbox"/> Well not permanently capped	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> No <input type="checkbox"/> No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> N/A <input type="checkbox"/> Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> No <input type="checkbox"/> No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> Yes <input type="checkbox"/> Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9. Was drill rig/drilling equipment cleaned IAW 173-160-530? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10a. Screened interval documented? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> N/A <input type="checkbox"/> Not documented	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-15</u> Page 2 of 2
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11. Is design and construction IAW WAC 173-160-5407
 N/A ; Not applicable

11a. Screen commercially fabricated of material nonreactive to subsurface conditions?
 N/A ; Not applicable

11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.
 N/A ; Not applicable

11c. Well has been developed.
 N/A ; Not applicable

11d. Annulus grouted with bentonite or bentonite/cement mixture.
 N/A ; Not applicable

12. Does water sample meet established acceptance criteria?
 Sample is less than 5 NTU and sand free.
 N/A ; Not applicable

13. Data Sources Used:

Logs:

Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>
Geologist: <u>N/A</u>	Date: _____	Company: _____
Geophysical: <u>N/A</u>	Date: _____	Company: _____
Television: <u>N/A</u>	Date: _____	Company: _____

Publications: Title, Author, Date
HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993

Databases:
WHC Well Services

Field Check: WHC Well Services Date: 04/12/95 Company: WHC

Other:
Isolation Barrier Test Borings in support of WPPSS

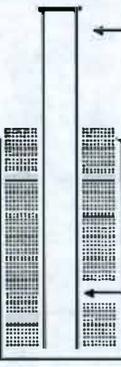
14. Comments: Identify evaluation criteria addressed by number:

15. Status

Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	Well lacks seals
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	Not applicable
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	Not applicable
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	Well has no identified user
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	Well has no identified need
Other _____	<input type="checkbox"/> _____	_____

16. Status Recommendation
 Done By: Name: T. J. Wood Title: Senior Engineer Date: 04/18/95

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WELL CONSTRUCTION AND COMPLETION SUMMARY			
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-15 B2450</u> TEMPORARY WELL NO: <u>1B-92-15</u> Hanford Coordinates: N/S <u>N 9,125</u> E/W <u>E 6,064</u> State Coordinates: N <u>414,440</u> E <u>2,301,366</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>	
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log	0-41-ft No log available	 <p> Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0-40-ft</u> 2-in ID Sinco poly casing <u>+2.0-40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u> </p>	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> Drawing By: <u>TJW/6N1B9215,ASB</u> Date: <u>14Apr95</u> Reference: <u>None</u> </td> </tr> </table>			Drawing By: <u>TJW/6N1B9215,ASB</u> Date: <u>14Apr95</u> Reference: <u>None</u>
Drawing By: <u>TJW/6N1B9215,ASB</u> Date: <u>14Apr95</u> Reference: <u>None</u>			

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
<p>Drilling Method: <u>Auger</u></p> <p>Drilling Fluid Used: <u>Not applicable</u></p> <p>Driller's Name: <u>Wagster</u></p> <p>Drilling Company: <u>Kaiser Engineers</u></p> <p>Date Started: <u>August 1992</u></p>	<p>Sample Method: <u>Split Spoon</u></p> <p>Additives Used: <u>Not documented</u></p> <p>WA State Lic Nr: <u>1946</u></p> <p>Company Location: <u>Richland, WA</u></p> <p>Date Complete: <u>August 1992</u></p>	<p>WELL NUMBER: <u>699-1B-92-15 B2450</u> TEMPORARY WELL NO: <u>1B-92-15</u></p> <p>Hanford</p> <p>Coordinates: N/S <u>N 9,125</u> E/W <u>E 6,064</u></p> <p>State Coordinates: N <u>414,440</u> E <u>2,301,366</u></p> <p>Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u></p> <p>Elevation Ground surface: <u>452.00-ft Estimated</u></p>
<p>Depth to water: <u>Not applicable</u> (Ground surface)</p>		
<p>DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)</p>		
<p>[1] Auger over existing casing to total depth</p> <p>[2] Backpull all existing casing</p> <p>[3] Remove augers, backfill with natural material/sand to 3-ft</p> <p>[4] Place cement cap, pin and plate, fill to grade</p>		<p>Elevation of reference point: <u>[454.00-ft]</u> (top of casing)</p> <p>Height of reference point above <u>[2.0-ft]</u> ground surface</p> <p>Depth of surface seal <u>[ND]</u> No surface seal documented</p> <p>11-in nominal hole <u>0~40-ft</u></p> <p>2-in ID Sinco poly casing <u>+2.0~40-ft</u></p> <p>Borehole drilled depth: <u>[40.0-ft]</u></p>
<p>NOTE: Order of work to be determined by field conditions.</p>		
<p>Drawing By: <u>TJW/6N1B9215,PLM</u></p> <p>Date: <u>18Apr95</u></p> <p>Reference: <u>None</u></p>		

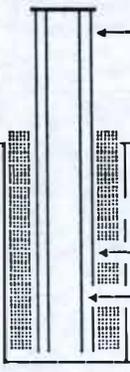
WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-16</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u>) <u>Not documented</u>	

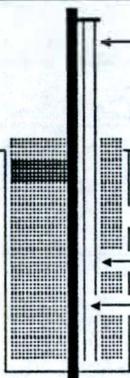
WHC-SD-EN-AP-161, Rev 0, Appendix D

RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-16</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>13. Data Sources Used:</p> <p>Logs:</p> <table style="width:100%; border: none;"> <tr> <td style="width:50%;">Driller's: <u>Kaiser Hanford</u></td> <td style="width:15%;">Date: <u>08/00/92</u></td> <td style="width:35%;">Company: <u>Wagster</u></td> </tr> <tr> <td>Geologist: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Geophysical: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Television: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> </table> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other: <u>Isolation Barrier Test Borings in support of WPPSS</u></p>		Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>	Geologist: <u>N/A</u>	Date: _____	Company: _____	Geophysical: <u>N/A</u>	Date: _____	Company: _____	Television: <u>N/A</u>	Date: _____	Company: _____						
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>																	
Geologist: <u>N/A</u>	Date: _____	Company: _____																	
Geophysical: <u>N/A</u>	Date: _____	Company: _____																	
Television: <u>N/A</u>	Date: _____	Company: _____																	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>																			
<p>15. Status</p> <table style="width:100%; border: none;"> <tr> <td style="width:50%;">Well is acceptable for intended use</td> <td style="width:10%;"><input type="checkbox"/> <u>No</u></td> <td style="width:40%;">) <u>Well lacks seals</u></td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td><input type="checkbox"/> <u>NA</u></td> <td>) <u>Not applicable</u></td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>) <u>Not applicable</u></td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>) <u>Well has no identified user</u></td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td><input type="checkbox"/> <u>Yes</u></td> <td>) <u>Well has no identified need</u></td> </tr> <tr> <td>Other _____</td> <td><input type="checkbox"/> _____</td> <td>) _____</td> </tr> </table>		Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u>	Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>) <u>Not applicable</u>	Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>) <u>Not applicable</u>	Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u>	Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u>	Other _____	<input type="checkbox"/> _____) _____
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u>																	
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>) <u>Not applicable</u>																	
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>) <u>Not applicable</u>																	
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u>																	
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u>																	
Other _____	<input type="checkbox"/> _____) _____																	
<p>16. Status Recommendation</p> <p>Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>																			

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-16 B2451</u> TEMPORARY BWIP WELL NO: <u>1B-92-16</u> Hanford Coordinates: N/S <u>N 9,122</u> E/W <u>E 6,060</u> State Start Coordinates: N <u>414,437</u> E <u>2,301,362</u> Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log 0-41-ft No log available	 <p style="font-size: small;"> Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above ground surface: [2.0-ft] Depth of surface seal: [ND] (No surface seal documented) 11-in nominal hole: 0-40-ft 3-in ID Sondex vinyl casing: +2.0-40-ft 2-in ID Sinco poly casing: +2.0-40-ft Borehole drilled depth: [40.0-ft] </p>				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N1B9216,ASB</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>17Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9216,ASB</u>	Date : <u>17Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9216,ASB</u>					
Date : <u>17Apr95</u>					
Reference : <u>None</u>					

WHC-SD-EN-AP-161, Rev 0, Appendix D

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-16 B2451</u> Hanford Coordinates: N/S <u>N 9,122</u> E/W <u>E 6,060</u> State Coordinates: N <u>414,437</u> E <u>2,301,362</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<ol style="list-style-type: none"> [1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade 	 <p style="font-size: small;"> Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above ground surface: [2.0-ft] Depth of surface seal: [ND] No surface seal documented 11-in nominal hole: 0-40-ft 3-in ID Sondex vinyl casing: +2.0-40-ft 2-in ID Sinco poly casing: +2.0-40-ft Borehole drilled depth: [40.0-ft] </p>
<p>NOTE: Order of work to be determined by field conditions.</p>		
Drawing By: <u>IJW/6N1B9216,PLN</u> Date: <u>17Apr95</u> Reference: <u>None</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-17</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> No <input type="checkbox"/> No potential user identified	
3. Is well presently in use? <input type="checkbox"/> No <input type="checkbox"/> No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> No <input type="checkbox"/> No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> N/A <input type="checkbox"/> Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> No <input type="checkbox"/> No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> NO <input type="checkbox"/> Well not permanently capped	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> No <input type="checkbox"/> No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> N/A <input type="checkbox"/> Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> No <input type="checkbox"/> No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> No <input type="checkbox"/> No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> Yes <input type="checkbox"/> Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10a. Screened interval documented? <input type="checkbox"/> N/A <input type="checkbox"/> Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> N/A <input type="checkbox"/> Not documented	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-17</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u> , Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> , Not applicable	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> , Not applicable	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> , Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> , Not applicable	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> , Not applicable	
13. Data Sources Used: Logs: Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u> Geologist: <u>N/A</u> Date: _____ Company: _____ Geophysical: <u>N/A</u> Date: _____ Company: _____ Television: <u>N/A</u> Date: _____ Company: _____ Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u> Databases: <u>WHC Well Services</u> Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u> Other: <u>Isolation Barrier Test Borings in support of WPPSS</u>	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status Well is acceptable for intended use <input type="checkbox"/> <u>No</u> <u>Well lacks seals</u> Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u> <u>Not applicable</u> Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <u>Not applicable</u> Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> <u>Well has no identified user</u> Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <u>Well has no identified need</u> Other _____ <input type="checkbox"/> _____ _____	
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-17 B2452</u> TEMPORARY WELL NO: <u>1B-92-17</u> Hanford Coordinates: N/S <u>N 9,134</u> E/W <u>E 6,052</u> State Coordinates: N <u>414,449</u> E <u>2,301,352</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log	<p>The diagram shows a vertical well casing. At the top, an arrow points to the 'Elevation of reference point: [454.00-ft] (top of casing)'. Below that, another arrow points to the 'Height of reference point above [2.0-ft] ground surface'. Further down, an arrow points to the 'Depth of surface seal [ND] No surface seal documented'. Below the surface seal, an arrow points to the '11-in nominal hole 0~40-ft'. Further down, an arrow points to the '2-in ID Sinco poly casing +2.0~40-ft'. At the bottom, an arrow points to the 'Borehole drilled depth: [40.0-ft]'. To the left of the casing, a shaded area represents the borehole, with a label '0~41-ft No log available' pointing to it.</p>	
Drawing By: <u>IJW/6N1B9217,ASB</u> Date : <u>17Apr95</u> Reference : <u>None</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-17 B2452</u> TEMPORARY WELL NO: <u>1B-92-17</u> Hanford Coordinates: N/S <u>N 9,134</u> E/W <u>E 6,052</u> State Coordinates: N <u>414,449</u> E <u>2,301,352</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)		Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0~40-ft</u> 2-in ID Sinco poly casing <u>+2.0~40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u>
[1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate, fill to grade		
NOTE: Order of work to be determined by field conditions.		
Drawing By: <u>TJW/6NIB9217,PLN</u> Date : <u>18Apr95</u> Reference : <u>None</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-18</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u>) <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-18</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u> <input checked="" type="checkbox"/> <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input checked="" type="checkbox"/> <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input checked="" type="checkbox"/> <u>Not applicable</u></p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input checked="" type="checkbox"/> <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input checked="" type="checkbox"/> <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input checked="" type="checkbox"/> <u>Not applicable</u></p> <p>13. Data Sources Used:</p> <p>Logs:</p> <table style="width:100%; border: none;"> <tr> <td style="width:50%;">Driller's: <u>Kaiser Hanford</u></td> <td style="width:15%;">Date: <u>08/00/92</u></td> <td style="width:35%;">Company: <u>Wagster</u></td> </tr> <tr> <td>Geologist: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Geophysical: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Television: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> </table> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other: <u>Isolation Barrier Test Borings in support of WPPSS</u></p>		Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>	Geologist: <u>N/A</u>	Date: _____	Company: _____	Geophysical: <u>N/A</u>	Date: _____	Company: _____	Television: <u>N/A</u>	Date: _____	Company: _____						
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>																	
Geologist: <u>N/A</u>	Date: _____	Company: _____																	
Geophysical: <u>N/A</u>	Date: _____	Company: _____																	
Television: <u>N/A</u>	Date: _____	Company: _____																	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p>																			
<p>15. Status</p> <table style="width:100%; border: none;"> <tr> <td style="width:50%;">Well is acceptable for intended use</td> <td style="width:10%; text-align: center;">(<u>No</u>)</td> <td style="width:40%;">Well lacks seals</td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td style="text-align: center;">(<u>NA</u>)</td> <td>Not applicable</td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td style="text-align: center;">(<u>No</u>)</td> <td>Not applicable</td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td style="text-align: center;">(<u>No</u>)</td> <td>Well has no identified user</td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td style="text-align: center;">(<u>Yes</u>)</td> <td>Well has no identified need</td> </tr> <tr> <td>Other _____</td> <td style="text-align: center;">(_____)</td> <td>_____</td> </tr> </table> <p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>		Well is acceptable for intended use	(<u>No</u>)	Well lacks seals	Well is acceptable for intended use if variance is granted	(<u>NA</u>)	Not applicable	Rehabilitation required to continue intended use	(<u>No</u>)	Not applicable	Remediation required to achieve intended use	(<u>No</u>)	Well has no identified user	Decommission, well is unneeded or cannot be remediated	(<u>Yes</u>)	Well has no identified need	Other _____	(_____)	_____
Well is acceptable for intended use	(<u>No</u>)	Well lacks seals																	
Well is acceptable for intended use if variance is granted	(<u>NA</u>)	Not applicable																	
Rehabilitation required to continue intended use	(<u>No</u>)	Not applicable																	
Remediation required to achieve intended use	(<u>No</u>)	Well has no identified user																	
Decommission, well is unneeded or cannot be remediated	(<u>Yes</u>)	Well has no identified need																	
Other _____	(_____)	_____																	

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WELL CONSTRUCTION AND COMPLETION SUMMARY								
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-18-92-18 B2453</u> TEMPORARY BWIP WELL NO: <u>18-92-18</u> Hanford Coordinates: N/S <u>N 9,127</u> E/W <u>E 6,050</u> State Coordinates: N <u>414,442</u> E <u>2,301,352</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation: <u>Not documented</u> Ground surface: <u>452.00-ft Estimated</u>						
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log								
<u>0-41-ft No log available</u>								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Drawing By:</td> <td><u>TJW/6N1B9218, ASB</u></td> </tr> <tr> <td>Date:</td> <td><u>17Apr95</u></td> </tr> <tr> <td>Reference:</td> <td><u>None</u></td> </tr> </table>			Drawing By:	<u>TJW/6N1B9218, ASB</u>	Date:	<u>17Apr95</u>	Reference:	<u>None</u>
Drawing By:	<u>TJW/6N1B9218, ASB</u>							
Date:	<u>17Apr95</u>							
Reference:	<u>None</u>							

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-18 B2453</u> Hanford Coordinates: N/S <u>N 9.127</u> E/W <u>E 6.050</u> State Coordinates: N <u>414,442</u> E <u>2,301,352</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface)		
DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)		
(1) Auger over existing casing to total depth (2) Backpull all existing casing (3) Remove augers, backfill with natural material/sand to 3-ft (4) Place cement cap, pin and plate fill to grade	<p>The diagram shows a vertical well casing being decommissioned. It starts with an 11-inch nominal hole (0 to 40 feet deep). This is followed by a 3-inch ID Sondex vinyl casing (+2.0 to 40 feet), and then a 2-inch ID Sinco poly casing (+2.0 to 40 feet). The total borehole drilled depth is 40.0 feet. The casing is shown being pulled out, and the hole is filled with natural material/sand. A cement cap, pin, and plate are placed at the top of the well.</p>	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0~40-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0~40-ft</u> 2-in ID Sinco poly casing <u>+2.0~40-ft</u> Borehole drilled depth: <u>[40.0-ft]</u>
NOTE: Order of work to be determined by field conditions.		
Drawing By: <u>TJW/6N1B9218,PLN</u> Date : <u>17Apr95</u> Reference : <u>None</u>		

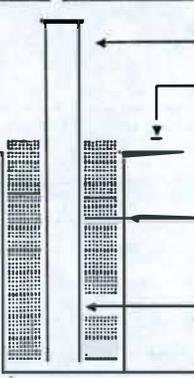
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-19</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? (<u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? (<u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? (<u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? (<u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? (<u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? (<u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? (<u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? (<u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? (<u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? (<u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? (<u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly identified? (<u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? (<u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? (<u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? (<u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? (<u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? (<u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? (<u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? (<u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? (<u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? (<u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? (<u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? (<u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? (<u>N/A</u>) <u>Not documented</u>	

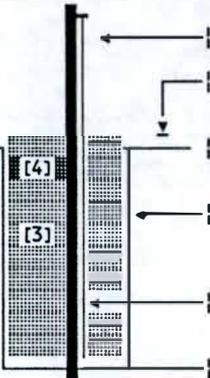
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-19</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u> ; Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> ; Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> ; Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> ; Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> ; Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> ; Not applicable</p> <p>13. Data Sources Used: Logs: Driller's: <u>Kaiser Hanford</u> Date: <u>08/00/92</u> Company: <u>Wagster</u> Geologist: <u>N/A</u> Date: _____ Company: _____ Geophysical: <u>N/A</u> Date: _____ Company: _____ Television: <u>N/A</u> Date: _____ Company: _____</p> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other: <u>Isolation Barrier Test Borings in support of WPPSS</u></p>	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p>	
<p>15. Status</p> <p>Well is acceptable for intended use <input type="checkbox"/> <u>No</u> <u>Well lacks seals</u></p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u> <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <u>Not applicable</u></p> <p>Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> <u>Well has no identified user</u></p> <p>Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <u>Well has no identified need</u></p> <p>Other _____ <input type="checkbox"/> _____</p>	
<p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-19 B2454</u> TEMPORARY WELL NO: <u>1B-92-19</u> Hanford Coordinates: N/S <u>N 9.138</u> E/W <u>E 6.038</u> State Coordinates: N <u>414,453</u> E <u>2,301,340</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED Driller's STRATIGRAPHY Log	 <p style="font-size: small;"> Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above [2.0-ft] ground surface Depth of surface seal [ND] No surface seal documented 11-in nominal hole 0~42-ft 2-in ID Sinco poly casing +2.0~42-ft Borehole drilled depth: [42.0-ft] </p>	
0~41-ft No log available		
Drawing By: <u>TJW/6N1B9219,ASB</u> Date : <u>17Apr95</u> Reference : <u>None</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-19 B2454</u> TEMPORARY WELL NO: <u>1B-92-19</u> Hanford Coordinates: N/S <u>N 9,138</u> E/W <u>E 6,038</u> State Coordinates: N <u>414,453</u> E <u>2,301,340</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<ol style="list-style-type: none"> [1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate, fill to grade 	 <p>The diagram shows a vertical well casing. At the top, an arrow points to the 'Elevation of reference point (top of casing)' at [454.00-ft]. Below this, an arrow points to the 'Height of reference point above ground surface' at [2.0-ft]. Further down, an arrow points to the 'Depth of surface seal' which is [ND] (Not Documented), with a note 'No surface seal documented'. Below that, an arrow points to an '11-in nominal hole' of depth [0~42-ft]. Further down, an arrow points to a '2-in ID Sinco poly casing' of length [+2.0~42-ft]. At the bottom, an arrow points to the 'Borehole drilled depth' of [42.0-ft]. The casing is divided into sections labeled [4] at the top and [3] below it.</p>
NOTE: Order of work to be determined by field conditions.		
Drawing By: <u>TJW/6N1B9219,PLN</u> Date: <u>18Apr95</u> Reference: <u>None</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-20</u>
Page 1 of 2	
<p>2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> , No potential user identified</p> <p>3. Is well presently in use? <input type="checkbox"/> <u>No</u> , No use identified</p> <p>4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> , No documentation of annular seal</p> <p>4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> , Well terminates within upper sediment</p> <p>4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> , No seals documented</p> <p>4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> , No surface seal documented</p> <p>4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u> , Well not permanently capped</p> <p>6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> , No annular seal documented</p> <p>6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> , Drilled with augers</p> <p>6c. Well properly identified? <input type="checkbox"/> <u>No</u> , No permanent identification</p> <p>7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> , No surface seal documented</p> <p>7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> , Capped no posts or pad present</p> <p>7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> , Not applicable</p>	
RCRA/CERCLA MONITORING WELL?	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u> , Not applicable</p> <p>10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u> , Not documented</p>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-18-92-20</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
13. Data Sources Used: Logs:	
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u> Company: <u>Wagster</u>
Geologist: <u>N/A</u>	Date: _____ Company: _____
Geophysical: <u>N/A</u>	Date: _____ Company: _____
Television: <u>N/A</u>	Date: _____ Company: _____
Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u>	
Databases: <u>WHC Well Services</u>	
Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u>	
Other: <u>Isolation Barrier Test Borings in support of WPPSS</u>	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status	
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u> <input type="checkbox"/> Well lacks seals
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u> <input type="checkbox"/> Not applicable
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u> <input type="checkbox"/> Not applicable
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u> <input type="checkbox"/> Well has no identified user
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> Well has no identified need
Other _____	<input type="checkbox"/> _____
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-20 B2455</u> TEMPORARY BWIP WELL NO: <u>1B-92-20</u> Hanford Coordinates: N/S <u>N 9,130</u> E/W <u>E 6,038</u> State Coordinates: N <u>414,445</u> E <u>2,301,340</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log 0~41-ft No log available	<p>The diagram shows a vertical well casing structure. From top to bottom, it consists of: - An elevation of reference point at 454.00-ft (top of casing). - A height of reference point above ground surface of 2.0-ft. - A section with no surface seal documented. - An 11-in nominal hole section from 0 to 44-ft. - A 3-in ID Sondex vinyl casing section from +2.0 to 44-ft. - A 2-in ID Sinco poly casing section from +2.0 to 44-ft. - A borehole drilled depth of 44.0-ft.</p>	Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above [2.0-ft] ground surface Depth of surface seal [ND] No surface seal documented 11-in nominal hole 0~44-ft 3-in ID Sondex vinyl casing, +2.0~44-ft 2-in ID Sinco poly casing +2.0~44-ft Borehole drilled depth: [44.0-ft]			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Drawing By: <u>TJW/6N1B9220,ASB</u></td> </tr> <tr> <td style="padding: 5px;">Date : <u>17Apr95</u></td> </tr> <tr> <td style="padding: 5px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9220,ASB</u>	Date : <u>17Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9220,ASB</u>					
Date : <u>17Apr95</u>					
Reference : <u>None</u>					

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS					
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-20 B2455</u> TEMPORARY BWIP WELL NO: <u>1B-92-20</u> Hanford Coordinates: N/S <u>N 9,130</u> E/W <u>E 6,038</u> State Coordinates: N <u>414,445</u> E <u>2,301,340</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	<p>The diagram shows a vertical well casing structure. From top to bottom, it consists of: - An elevation of reference point at 454.00-ft (top of casing). - A height of reference point above ground surface of 2.0-ft. - A depth of surface seal marked as [ND]. - An 11-in nominal hole of 0-44-ft. - A 3-in ID Sondex vinyl casing of +2.0-44-ft. - A 2-in ID Sinco poly casing of +2.0-44-ft. - A total borehole drilled depth of 44.0-ft.</p>				
<ol style="list-style-type: none"> [1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade 	<p>NOTE: Order of work to be determined by field conditions.</p>				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N1B9220,PLN</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>17Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9220,PLN</u>	Date : <u>17Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9220,PLN</u>					
Date : <u>17Apr95</u>					
Reference : <u>None</u>					

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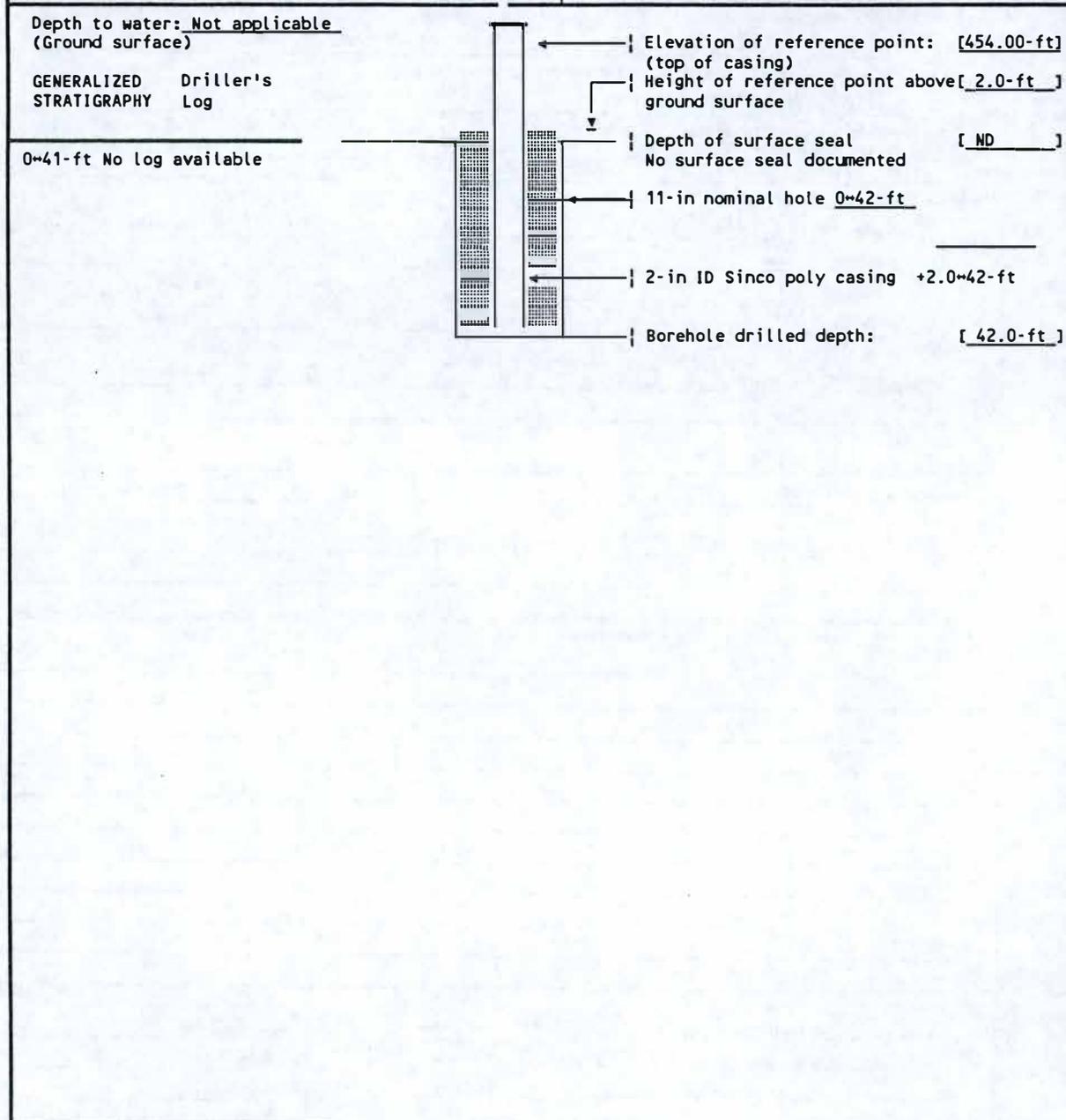
RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-1B-92-21</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? (<input type="checkbox"/> No) <u>No potential user identified</u>	
3. Is well presently in use? (<input type="checkbox"/> No) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? (<input type="checkbox"/> No) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? (<input type="checkbox"/> N/A) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? (<input type="checkbox"/> No) <u>No seals documented</u>	
4c. Annulus sealed against surface water? (<input type="checkbox"/> No) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? (<input type="checkbox"/> NO) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? (<input type="checkbox"/> No) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? (<input type="checkbox"/> N/A) <u>Drilled with augers</u>	
6c. Well properly identified? (<input type="checkbox"/> No) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? (<input type="checkbox"/> No) <u>No surface seal documented</u>	
7a. Well capped and protected? (<input type="checkbox"/> Yes) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
7d. Is existing surface protection damaged? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
10a. Screened interval documented? (<input type="checkbox"/> N/A) <u>Not applicable</u>	
10b. Vertical lithology documented? (<input type="checkbox"/> N/A) <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-21</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-540?</p> <p><input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions?</p> <p><input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen.</p> <p><input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11c. Well has been developed.</p> <p><input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture.</p> <p><input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free.</p> <p><input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</u></p> <p>13. Data Sources Used:</p> <p>Logs:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Driller's: <u>Kaiser Hanford</u></td> <td style="width: 20%;">Date: <u>08/00/92</u></td> <td style="width: 50%;">Company: <u>Wagster</u></td> </tr> <tr> <td>Geologist: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Geophysical: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Television: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> </table> <p>Publications: Title, Author, Date</p> <p><u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases:</p> <p><u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other:</p> <p><u>Isolation Barrier Test Borings in support of WPPSS</u></p>		Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>	Geologist: <u>N/A</u>	Date: _____	Company: _____	Geophysical: <u>N/A</u>	Date: _____	Company: _____	Television: <u>N/A</u>	Date: _____	Company: _____						
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>																	
Geologist: <u>N/A</u>	Date: _____	Company: _____																	
Geophysical: <u>N/A</u>	Date: _____	Company: _____																	
Television: <u>N/A</u>	Date: _____	Company: _____																	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>																			
<p>15. Status</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Well is acceptable for intended use</td> <td style="width: 10%;"><input type="checkbox"/> <u>No</u></td> <td style="width: 40%;">Well lacks seals</td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td><input type="checkbox"/> <u>NA</u></td> <td>Not applicable</td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>Not applicable</td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>Well has no identified user</td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td><input type="checkbox"/> <u>Yes</u></td> <td>Well has no identified need</td> </tr> <tr> <td>Other _____</td> <td><input type="checkbox"/> _____</td> <td>_____</td> </tr> </table>		Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	Well lacks seals	Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	Not applicable	Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	Not applicable	Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	Well has no identified user	Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	Well has no identified need	Other _____	<input type="checkbox"/> _____	_____
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	Well lacks seals																	
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	Not applicable																	
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	Not applicable																	
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	Well has no identified user																	
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	Well has no identified need																	
Other _____	<input type="checkbox"/> _____	_____																	
<p>16. Status Recommendation</p> <p>Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>																			

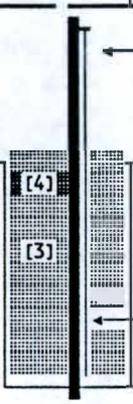
WHC-SD-EN-AP-161, Rev 0, Appendix D

WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Auger</u>	Sample Method: <u>Split Spoon</u>	WELL NUMBER: <u>699-18-92-21 B2456</u> TEMPORARY WELL NO: <u>18-92-21</u>
Drilling Fluid Used: <u>Not applicable</u>	Additives Used: <u>Not documented</u>	Hanford
Driller's Name: <u>Wagster</u>	WA State Lic Nr: <u>1946</u>	Coordinates: N/S <u>N 9,134</u> E/W <u>E 6,024</u>
Drilling Company: <u>Kaiser Engineers</u>	Company Location: <u>Richland, WA</u>	State
Date Started: <u>August 1992</u>	Date Complete: <u>August 1992</u>	Coordinates: N <u>414,449</u> E <u>2,301,324</u>
		Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u>
		Elevation Ground surface: <u>452.00-ft Estimated</u>



Drawing By: TJW/6N1B9221,ASB
Date : 17Apr95
Reference : None

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-21 B2456</u> TEMPORARY WELL NO: <u>1B-92-21</u> Hanford Coordinates: N/S <u>N 9,134</u> E/W <u>E 6,024</u> State Coordinates: N <u>414,449</u> E <u>2,301,324</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface) DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)	 <p>The diagram shows a vertical well casing. From top to bottom, the sections are: a top section with a height of 2.0 ft above ground surface; a section labeled [4] representing the surface seal; a section labeled [3] representing the 11-in nominal hole; a section representing the 2-in ID Sinco poly casing with a depth of +2.0 to 42 ft; and a bottom section representing the borehole drilled depth of 42.0 ft.</p>	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0~42-ft</u> 2-in ID Sinco poly casing <u>+2.0~42-ft</u> Borehole drilled depth: <u>[42.0-ft]</u>
[1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate, fill to grade		
NOTE: Order of work to be determined by field conditions.		
Drawing By: <u>TJW/6N1B9221,PLN</u> Date: <u>18Apr95</u> Reference: <u>None</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-22</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ; <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <u>No</u> ; <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> ; <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> ; <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> ; <u>No seals documented</u>	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> ; <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u> ; <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> ; <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ; <u>Drilled with augers</u>	
6c. Well properly identified? <input type="checkbox"/> <u>No</u> ; <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> ; <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> ; <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u> ; <u>Not applicable</u>	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u> ; <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-22</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>13. Data Sources Used:</p> <p>Logs:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Driller's: <u>Kaiser Hanford</u></td> <td style="width: 10%;">Date: <u>08/00/92</u></td> <td style="width: 40%;">Company: <u>Wagster</u></td> </tr> <tr> <td>Geologist: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Geophysical: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Television: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> </table> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other: <u>Isolation Barrier Test Borings in support of WPPSS</u></p>		Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>	Geologist: <u>N/A</u>	Date: _____	Company: _____	Geophysical: <u>N/A</u>	Date: _____	Company: _____	Television: <u>N/A</u>	Date: _____	Company: _____						
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>																	
Geologist: <u>N/A</u>	Date: _____	Company: _____																	
Geophysical: <u>N/A</u>	Date: _____	Company: _____																	
Television: <u>N/A</u>	Date: _____	Company: _____																	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>																			
<p>15. Status</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Well is acceptable for intended use</td> <td style="width: 10%;"><input type="checkbox"/> <u>No</u></td> <td style="width: 40%;">Well lacks seals</td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td><input type="checkbox"/> <u>NA</u></td> <td>Not applicable</td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>Not applicable</td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>Well has no identified user</td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td><input type="checkbox"/> <u>Yes</u></td> <td>Well has no identified need</td> </tr> <tr> <td>Other _____</td> <td><input type="checkbox"/> _____</td> <td>_____</td> </tr> </table> <p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>		Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	Well lacks seals	Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	Not applicable	Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	Not applicable	Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	Well has no identified user	Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	Well has no identified need	Other _____	<input type="checkbox"/> _____	_____
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	Well lacks seals																	
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	Not applicable																	
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	Not applicable																	
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	Well has no identified user																	
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	Well has no identified need																	
Other _____	<input type="checkbox"/> _____	_____																	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-22 B2457</u> Hanford Coordinates: N/S <u>N 9,127</u> E/W <u>E 6,026</u> State Coordinates: N <u>414,442</u> E <u>2,301,328</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface)		
GENERALIZED STRATIGRAPHY	Driller's Log	
0~41-ft No log available		
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> Drawing By: <u>TJW/6N1B9222, ASB</u> Date : <u>17Apr95</u> Reference : <u>None</u> </div>		

WHC-SD-EN-AP-161, Rev 0, Appendix D

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS					
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-IB-92-22 B2457</u> TEMPORARY BWIP WELL NO: <u>IB-92-22</u> Hanford Coordinates: N/S <u>N 9,127</u> E/W <u>E 6,026</u> State Coordinates: N <u>414,442</u> E <u>2,301,320</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface)					
DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)					
<ol style="list-style-type: none"> [1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate fill to grade 	<p>The diagram shows a vertical well casing structure. From top to bottom, it consists of: - An 11-inch nominal hole extending 0 to 42 feet. - A 3-inch ID Sondex vinyl casing extending +2.0 to 42 feet. - A 2-inch ID Sinco poly casing extending +2.0 to 42 feet. - A borehole drilled depth of 42.0 feet. A surface seal is indicated as 'No surface seal documented'. The elevation of the reference point (top of casing) is 454.00 feet, and the height of the reference point above ground surface is 2.0 feet.</p>	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0~42-ft</u> 3-in ID Sondex vinyl casing, <u>+2.0~42-ft</u> 2-in ID Sinco poly casing <u>+2.0~42-ft</u> Borehole drilled depth: <u>[42.0-ft]</u>			
NOTE: Order of work to be determined by field conditions.					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N1B9222,PLN</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>17Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N1B9222,PLN</u>	Date : <u>17Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N1B9222,PLN</u>					
Date : <u>17Apr95</u>					
Reference : <u>None</u>					

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-23</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? (<u>No</u>) <u>No potential user identified</u>	
3. Is well presently in use? (<u>No</u>) <u>No use identified</u>	
4. Is casing sealed in accordance with IAW WAC 173-160-0757 (<u>No</u>) <u>No documentation of annular seal</u>	
4a. Natural barriers preserved? (<u>N/A</u>) <u>Well terminates within upper sediment</u>	
4b. Aquifer/strata penetrated permanently sealed? (<u>No</u>) <u>No seals documented</u>	
4c. Annulus sealed against surface water? (<u>No</u>) <u>No surface seal documented</u>	
4d. Casing overlap more than 8 ft; packed and grouted? (<u>N/A</u>) <u>Not applicable</u>	
5. If not in use, is well capped IAW WAC 173-160-0857 (<u>NO</u>) <u>Well not permanently capped</u>	
6. Is design and construction IAW WAC 173-160-5007 (<u>No</u>) <u>No annular seal documented</u>	
6a. Saturated formation/aquifers not connected? (<u>N/A</u>) <u>Not applicable</u>	
6b. Cuttings/development water handled IAW WAC 173-3037 (<u>N/A</u>) <u>Drilled with augers</u>	
6c. Well properly indented? (<u>No</u>) <u>No permanent identification</u>	
7. Is surface protection IAW WAC 173-160-5107 (<u>No</u>) <u>No surface seal documented</u>	
7a. Well capped and protected? (<u>Yes</u>) <u>Capped no posts or pad present</u>	
7b. Protective posts, surface pad or cover installed? (<u>N/A</u>) <u>Not applicable</u>	
7c. Surface protection waived or variance obtained? (<u>N/A</u>) <u>Not applicable</u>	
7d. Is existing surface protection damaged? (<u>N/A</u>) <u>Not applicable</u>	
8. Are casing materials IAW 173-160-5207 (<u>N/A</u>) <u>Not applicable</u>	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-5307 (<u>N/A</u>) <u>Not applicable</u>	
9a. Drill rig/equipment casing/screen cleaned? (<u>N/A</u>) <u>Not applicable</u>	
9b. Filter pack cleaned? Material compatible? (<u>N/A</u>) <u>Not applicable</u>	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? (<u>N/A</u>) <u>Not applicable</u>	
10a. Screened interval documented? (<u>N/A</u>) <u>Not applicable</u>	
10b. Vertical lithology documented? (<u>N/A</u>) <u>Not documented</u>	

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-18-92-23</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) Not applicable	
11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) Not applicable	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) Not applicable	
12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) Not applicable	
13. Data Sources Used: Logs:	
Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u> Company: <u>Wagster</u>
Geologist: <u>N/A</u>	Date: _____ Company: _____
Geophysical: <u>N/A</u>	Date: _____ Company: _____
Television: <u>N/A</u>	Date: _____ Company: _____
Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u>	
Databases: <u>WHC Well Services</u>	
Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u>	
Other: <u>Isolation Barrier Test Borings in support of WPPSS</u>	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status	
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>) <u>Well lacks seals</u>
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>) <u>Not applicable</u>
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>) <u>Not applicable</u>
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>) <u>Well has no identified user</u>
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>) <u>Well has no identified need</u>
Other	<input type="checkbox"/> _____) _____
16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-18-92-23 B2458</u> TEMPORARY WELL NO: <u>18-92-23</u> Hanford State Coordinates: N/S <u>N 9,125</u> E/W <u>E 6,012</u> Start Coordinates: N <u>414,440</u> E <u>2,301,314</u> Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>			
Depth to water: <u>Not applicable</u> (Ground surface) GENERALIZED STRATIGRAPHY Driller's Log <u>0~41-ft No log available</u>	<p>The diagram shows a vertical well casing. The top of the casing is at an elevation of 454.00-ft. The casing is 2.0~41-ft long, with a 2-in ID Sinco poly casing. The borehole drilled depth is 41.0-ft. The hole is 11-in nominal diameter. There is no surface seal documented.</p>				
	Elevation of reference point: [454.00-ft] (top of casing) Height of reference point above [2.0-ft] ground surface Depth of surface seal [ND] No surface seal documented 11-in nominal hole 0~41-ft 2-in ID Sinco poly casing +2.0~41-ft Borehole drilled depth: [41.0-ft]				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Drawing By: <u>TJW/6N189223,ASB</u></td> </tr> <tr> <td style="padding: 2px;">Date : <u>14Apr95</u></td> </tr> <tr> <td style="padding: 2px;">Reference : <u>None</u></td> </tr> </table>			Drawing By: <u>TJW/6N189223,ASB</u>	Date : <u>14Apr95</u>	Reference : <u>None</u>
Drawing By: <u>TJW/6N189223,ASB</u>					
Date : <u>14Apr95</u>					
Reference : <u>None</u>					

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-23 B2458</u> TEMPORARY WELL NO: <u>1B-92-23</u> Hanford Coordinates: N/S <u>N 9,125</u> E/W <u>E 6,012</u> State Coordinates: N <u>414,440</u> E <u>2,301,314</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>
Depth to water: <u>Not applicable</u> (Ground surface)		
DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)		
[1] Auger over existing casing to total depth [2] Backpull all existing casing [3] Remove augers, backfill with natural material/sand to 3-ft [4] Place cement cap, pin and plate, fill to grade	<p>The diagram shows a vertical well casing. Section [3] is the upper part, and section [4] is the lower part. A dashed line indicates the ground surface. Arrows point to various elevations and depths: the top of casing at 454.00-ft, a reference point 2.0-ft above ground, a surface seal depth of ND, an 11-in nominal hole of 0+41-ft, a 2-in ID Sinco poly casing of +2.0+41-ft, and a total borehole drilled depth of 41.0-ft.</p>	Elevation of reference point: <u>[454.00-ft]</u> (top of casing) Height of reference point above <u>[2.0-ft]</u> ground surface Depth of surface seal <u>[ND]</u> No surface seal documented 11-in nominal hole <u>0+41-ft</u> 2-in ID Sinco poly casing <u>+2.0+41-ft</u> Borehole drilled depth: <u>[41.0-ft]</u>
NOTE: Order of work to be determined by field conditions.		
Drawing By: <u>TJW/6N1B9223,PLN</u> Date : <u>18Apr95</u> Reference : <u>None</u>		

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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-24</u> Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ; No potential user identified	
3. Is well presently in use? <input type="checkbox"/> <u>No</u> ; No use identified	
4. Is casing sealed in accordance with IAW WAC 173-160-075? <input type="checkbox"/> <u>No</u> ; No documentation of annular seal	
4a. Natural barriers preserved? <input type="checkbox"/> <u>N/A</u> ; Well terminates within upper sediment	
4b. Aquifer/strata penetrated permanently sealed? <input type="checkbox"/> <u>No</u> ; No seals documented	
4c. Annulus sealed against surface water? <input type="checkbox"/> <u>No</u> ; No surface seal documented	
4d. Casing overlap more than 8 ft; packed and grouted? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
5. If not in use, is well capped IAW WAC 173-160-085? <input type="checkbox"/> <u>NO</u> ; Well not permanently capped	
6. Is design and construction IAW WAC 173-160-500? <input type="checkbox"/> <u>No</u> ; No annular seal documented	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ; Drilled with augers	
6c. Well properly identified? <input type="checkbox"/> <u>No</u> ; No permanent identification	
7. Is surface protection IAW WAC 173-160-510? <input type="checkbox"/> <u>No</u> ; No surface seal documented	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> ; Capped no posts or pad present	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
7c. Surface protection waived or variance obtained? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
7d. Is existing surface protection damaged? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
8. Are casing materials IAW 173-160-520? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9a. Drill rig/equipment casing/screen cleaned? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
9b. Filter pack cleaned? Material compatible? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
RCRA/CERCLA MONITORING WELL?	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
10a. Screened interval documented? <input type="checkbox"/> <u>N/A</u> ; Not applicable	
10b. Vertical lithology documented? <input type="checkbox"/> <u>N/A</u> ; Not documented	

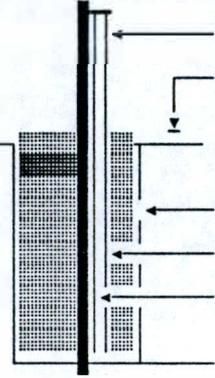
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RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST	1. Well No. <u>699-IB-92-24</u> Page 2 of 2																		
<p>11. Is design and construction IAW WAC 173-160-5407 <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11b. If filter pack installed, extends from bottom of screen to at least 3 ft above screen. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11c. Well has been developed. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>12. Does water sample meet established acceptance criteria? Sample is less than 5 NTU and sand free. <input type="checkbox"/> <u>N/A</u>) Not applicable</p> <p>13. Data Sources Used:</p> <p>Logs:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Driller's: <u>Kaiser Hanford</u></td> <td style="width: 20%;">Date: <u>08/00/92</u></td> <td style="width: 50%;">Company: <u>Wagster</u></td> </tr> <tr> <td>Geologist: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Geophysical: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> <tr> <td>Television: <u>N/A</u></td> <td>Date: _____</td> <td>Company: _____</td> </tr> </table> <p>Publications: Title, Author, Date <u>HANFORD WELLS, M. A. Chamness and J. K. Merz, August 1993</u></p> <p>Databases: <u>WHC Well Services</u></p> <p>Field Check: <u>WHC Well Services</u> Date: <u>04/12/95</u> Company: <u>WHC</u></p> <p>Other: <u>Isolation Barrier Test Borings in support of WPPSS</u></p>		Driller's: <u>Kaiser Hanford</u>	Date: <u>08/00/92</u>	Company: <u>Wagster</u>	Geologist: <u>N/A</u>	Date: _____	Company: _____	Geophysical: <u>N/A</u>	Date: _____	Company: _____	Television: <u>N/A</u>	Date: _____	Company: _____						
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Television: <u>N/A</u>	Date: _____	Company: _____																	
<p>14. Comments: Identify evaluation criteria addressed by number:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>																			
<p>15. Status</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Well is acceptable for intended use</td> <td style="width: 10%;"><input type="checkbox"/> <u>No</u></td> <td style="width: 40%;">Well lacks seals</td> </tr> <tr> <td>Well is acceptable for intended use if variance is granted</td> <td><input type="checkbox"/> <u>NA</u></td> <td>Not applicable</td> </tr> <tr> <td>Rehabilitation required to continue intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>Not applicable</td> </tr> <tr> <td>Remediation required to achieve intended use</td> <td><input type="checkbox"/> <u>No</u></td> <td>Well has no identified user</td> </tr> <tr> <td>Decommission, well is unneeded or cannot be remediated</td> <td><input type="checkbox"/> <u>Yes</u></td> <td>Well has no identified need</td> </tr> <tr> <td>Other _____</td> <td><input type="checkbox"/> _____</td> <td>_____</td> </tr> </table> <p>16. Status Recommendation Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>04/18/95</u></p>		Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	Well lacks seals	Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	Not applicable	Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	Not applicable	Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	Well has no identified user	Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	Well has no identified need	Other _____	<input type="checkbox"/> _____	_____
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Other _____	<input type="checkbox"/> _____	_____																	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
Drilling Method: <u>Auger</u> Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-1B-92-24 B2459</u> TEMPORARY BWIP WELL NO: <u>1B-92-24</u> Hanford Coordinates: N/S <u>N 9,122</u> E/W <u>E 6,016</u> State Coordinates: N <u>414,437</u> E <u>2,301,318</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft</u> Estimated			
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Date: <u>17Apr95</u>					
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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS			
Drilling Method: <u>Auger</u> Drilling Fluid Used: <u>Not applicable</u> Driller's Name: <u>Wagster</u> Drilling Company: <u>Kaiser Engineers</u> Date Started: <u>August 1992</u>	Sample Method: <u>Split Spoon</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>1946</u> Company Location: <u>Richland, WA</u> Date Complete: <u>August 1992</u>	WELL NUMBER: <u>699-IB-92-24 B2459</u> TEMPORARY BWIP WELL NO: <u>IB-92-24</u> Hanford Coordinates: N/S <u>N 9,122</u> E/W <u>E 6,016</u> State Coordinates: N <u>414,437</u> E <u>2,301,318</u> Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>6R1</u> Elevation Ground surface: <u>452.00-ft Estimated</u>	
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Drawing By: <u>TJW/6N1B9224,PLN</u> Date: <u>17Apr95</u> Reference: <u>None</u>			

DISTRIBUTION SHEET

To Distribution	From T. J. Wood	Page 1 of 1
		Date April 13, 1995
Project Title/Work Order A supplemental revision by ECN to "Fitness-For-Intended-Use Evaluation Recommendations for Hanford Site 600 Area Wells, WHC-SD-EN-AP-161, Rev 0."		EDT No. NA
		ECN No. 186390

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
M. A. Chamness	K6-84	X			
J. W. Fassett	H6-06	X			
M. G. Gardner (5)	N3-06	X			
C. H. Gunion	H4-83	X			
S. P. Luttrell	K6-96	X			
R. A. Meznarich	S3-27	X			
A. L. Schatz	N3-05	X			
D. E. Skoglie	N3-05	X			
W. R. Thackaberry	H6-32	X			
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