

<b>ENGINEERING CHANGE NOTICE</b>	Page 1 of <u>69</u>	1. ECN <b>614124</b> ----- Proj. ECN
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<b>2. ECN Category (mark one)</b>  Supplemental <input checked="" type="checkbox"/> Direct Revision <input type="checkbox"/> Change ECN <input type="checkbox"/> Temporary Standby <input type="checkbox"/> Supersedure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	<b>3. Originator's Name, Organization, MSIN, and Telephone No.</b> T. J. Wood OM613/RD1CA N3-05 6-2956	<b>3a. USQ Required?</b> [] Yes [X] No	<b>4. Date</b> January 18, 1995
	<b>5. Project Title/No./Work Order No.</b> NA	<b>6. Bldg./Sys./Fac. No.</b> NA	<b>7. Approval Designator</b> QD
	<b>8. Document Numbers Changed by this ECN (includes sheet no. and rev.)</b> WHC-SD-EN-AP-161, Rev 0	<b>9. Related ECN No(s).</b> 614122	<b>10. Related PO No.</b> NA

<b>11a. Modification Work</b>  [] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)	<b>11b. Work Package No.</b> NA	<b>11c. Modification Work Complete</b>  NA  _____ Cog. Engineer Signature & Date	<b>11d. Restored to Original Condition (Temp. or Standby ECN only)</b> NA  _____ Cog. Engineer Signature & Date
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**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 C.

**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.

<b>14. Distribution (include name, MSIN, and no. of copies)</b> See Distribution Sheet	RELEASE STAMP  OFFICIAL RELEASE BY WJC 38 DATE JAN 24 1995 Sta. J1
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**ENGINEERING CHANGE NOTICE**

15. Design Verification Required [ ] Yes [X] No	16. Cost Impact				17. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION		Improvement	[ ] NA
	Additional	[ ] \$ NA	Additional	[ ] \$	Delay	[ ]
	Savings	[ ] \$	Savings	[ ] \$		

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

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
<u>OPERATIONS AND ENGINEERING</u>			<u>ARCHITECT-ENGINEER</u>		
Cog. Eng.	T. J. Wood	1-20-95	PE		
Cog. Mgr.	M. G. Gardner	1-20-95	QA		
QA	W. R. Thackaberry	1/23/95	Safety		
Safety			Design		
Environ.			Environ.		
Other			Other		
Program	R. R. Thompson	1/23/95			
Other	S. P. Luttrell	1-24-95 e 12:40			
Other	T. F. Kisenwether	1-23-95			
			<u>DEPARTMENT OF ENERGY</u>		
			Signature or a Control Number that tracks the Approval Signature		
			M. J. Furman	1-24-95	
			<u>ADDITIONAL</u>		
			R. D. Hildebrand	1-23-95	
			C. H. Gunion	1-24-95	



## WHC-SD-EN-AP-161, Rev 0, Appendix C

Subject: 600 Area Well Decommissioning Planned for 1st and 2nd Quarter FY 1995 by WHC Well Services

This Appendix C to WHC-SD-EN-AP-161 lists Hanford Site wells selected for decommissioning during the 1st and/or 2nd 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.

Table 1. 600 AREA WELLS SELECTED FOR DECOMMISSIONING

Well Number	Hanford N/S	Coordinates E/W	Date Drill	Depth Drill	Casing Elev	Comments	Owner	Recommended Disposition
699-59-101	N 58,919	W100,659	Mar 76	122	580.00	NA	Orphan	Decommission
699-37-82C	N 37,000	W 82,000	May 76	282	636.00	NA	Orphan	Decommission
699-37-82D	N 37,000	W 82,000	Jun 76	191	636.00	NA	Orphan	Decommission
699-40-12A	N 40,000	W 12,000	Sept 78	507	ND	NA	Orphan	Decommission
699-49-13D	N 48,879	W 12,540	Mar 44	92	412.37	NA	Orphan	Decommission
699-52-18A	N 52,029	W 18,441	Jan 44	90	410.25	NA	Orphan	Decommission
699-52-18C	N 51,808	W 18,412	Apr 44	107	410.00	NA	Orphan	Decommission
699-54-18E	N 54,065	W 18,331	Dec 43	90	394.46	NA	Orphan	Decommission
699-56-26B	N 56,486	W 25,810	Jun 75	81	414.61	NA	Orphan	Decommission
699-57-25B	N 56,755	W 25,490	Jun 75	81	415.00	NA	Orphan	Decommission
699-59-33	N 59,439	W 32,679	ND	44	404.52	2-in well point	Orphan	Decommission
699-62-43B	N 62,338	W 42,880	Mar 54	68	421.46	NA	Orphan	Decommission
699-63-25B	N 63,200	W 24,600	Jan 67	50	385.00	NA	Orphan	Decommission
699-65-59B	N 58,940	W 65,060	Apr 76	200	506.00	NA	Orphan	Decommission
699-65-59C	N 65,050	W 58,940	May 76	140	506.00	NA	Orphan	Decommission
699-70-37	N 70,243	W 36,740	Jun 60	15	386.69	2-in well point	Orphan	Decommission



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

Well 699-59-101	Page 6
Well 699-37-82C	Page 10
Well 699-37-82D	Page 14
Well 699-40-12A	Page 18
Well 699-49-13D	Page 22
Well 699-52-18A	Page 26
Well 699-52-18C	Page 30
Well 699-54-18E	Page 34
Well 699-56-26B	Page 38
Well 699-57-25B	Page 42
Well 699-59-33	Page 46
Well 699-62-43B	Page 50
Well 699-63-25B	Page 54
Well 699-65-59B	Page 58
Well 699-65-59C	Page 62
Well 699-70-37	Page 66

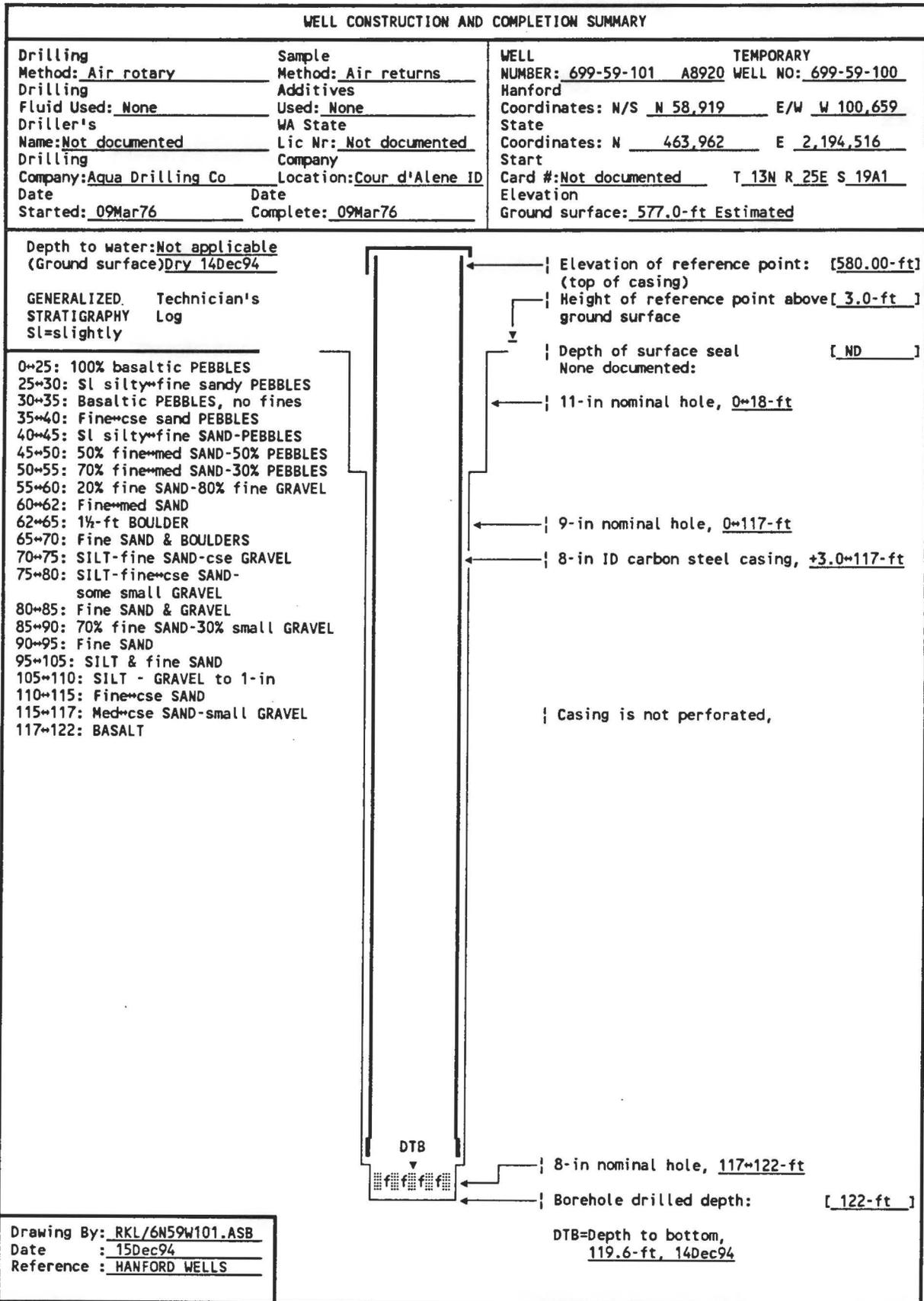
WHC-SD-EN-AP-161, Rev 0, Appendix C

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-59-101</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 in dry 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"/> Yes <input type="checkbox"/> Capped	
6. Is design end 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 before applicable date of WAC 173-303	
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	
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	
<b>RCRA/CERCLA MONITORING WELL?</b>	
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"/> Yes <input type="checkbox"/> Has driller's log	

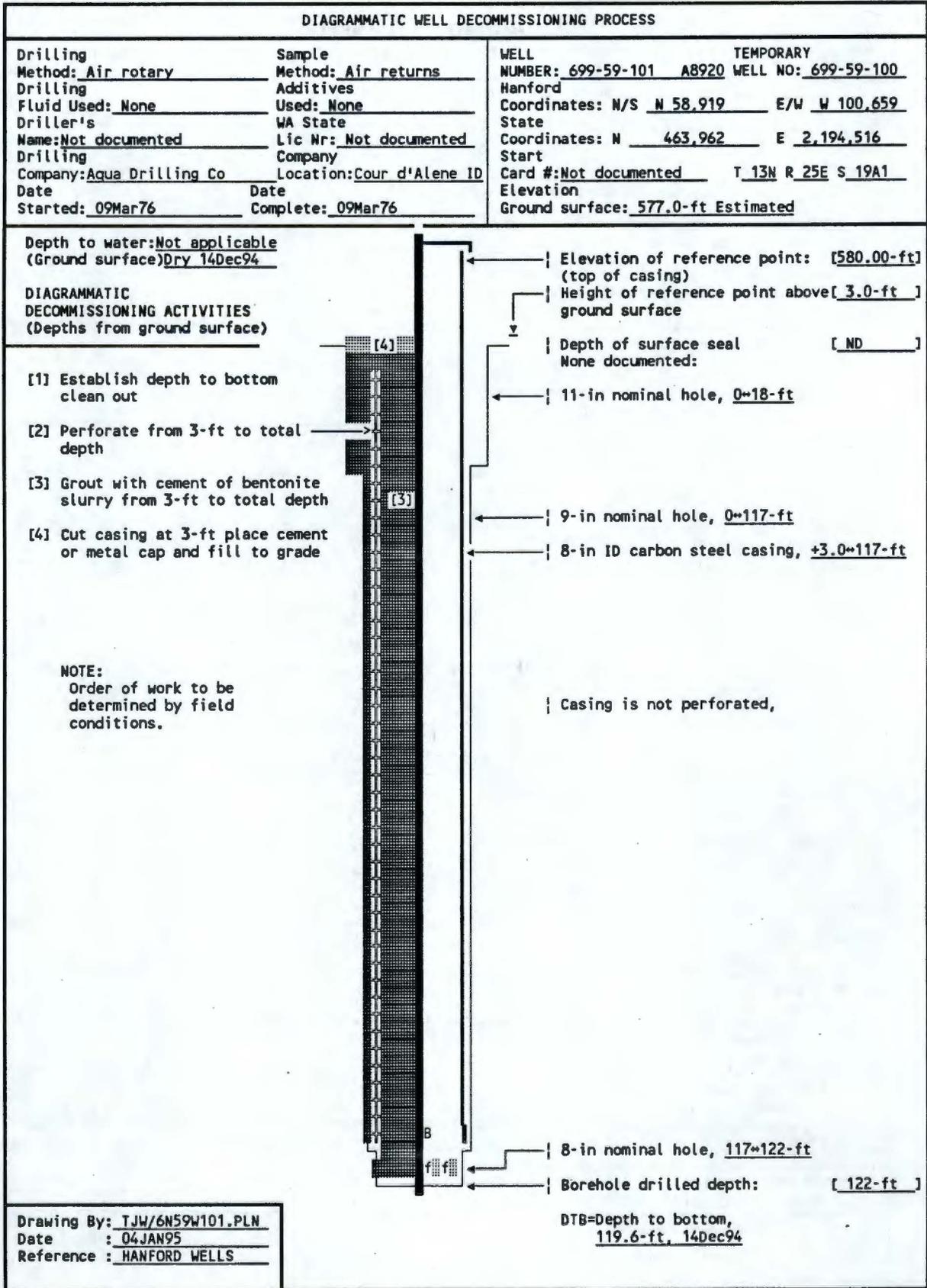
WHC-SD-EN-AP-161, Rev 0, Appendix C

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-59-101</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>Aqua Drilling</u> Date: <u>03/09/76</u> Company: _____          Geologist: _____ 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>12/14/94</u> Company: _____          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:50%;">Well is acceptable for intended use</td> <td style="width:10%; text-align: center;">( <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 style="text-align: center;">( <u>NA</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 user</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 _____</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>01/17/95</u></p>		Well is acceptable for intended use	( <u>No</u> )	<u>Well lacks seals</u>	Well is acceptable for intended use if variance is granted	( <u>NA</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 user</u>	Decommission, well is unneeded or cannot be remediated	( <u>Yes</u> )	<u>Well has no identified need</u>	Other _____	( _____ )	_____
Well is acceptable for intended use	( <u>No</u> )	<u>Well lacks seals</u>																	
Well is acceptable for intended use if variance is granted	( <u>NA</u> )	<u>Not applicable</u>																	
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Other _____	( _____ )	_____																	

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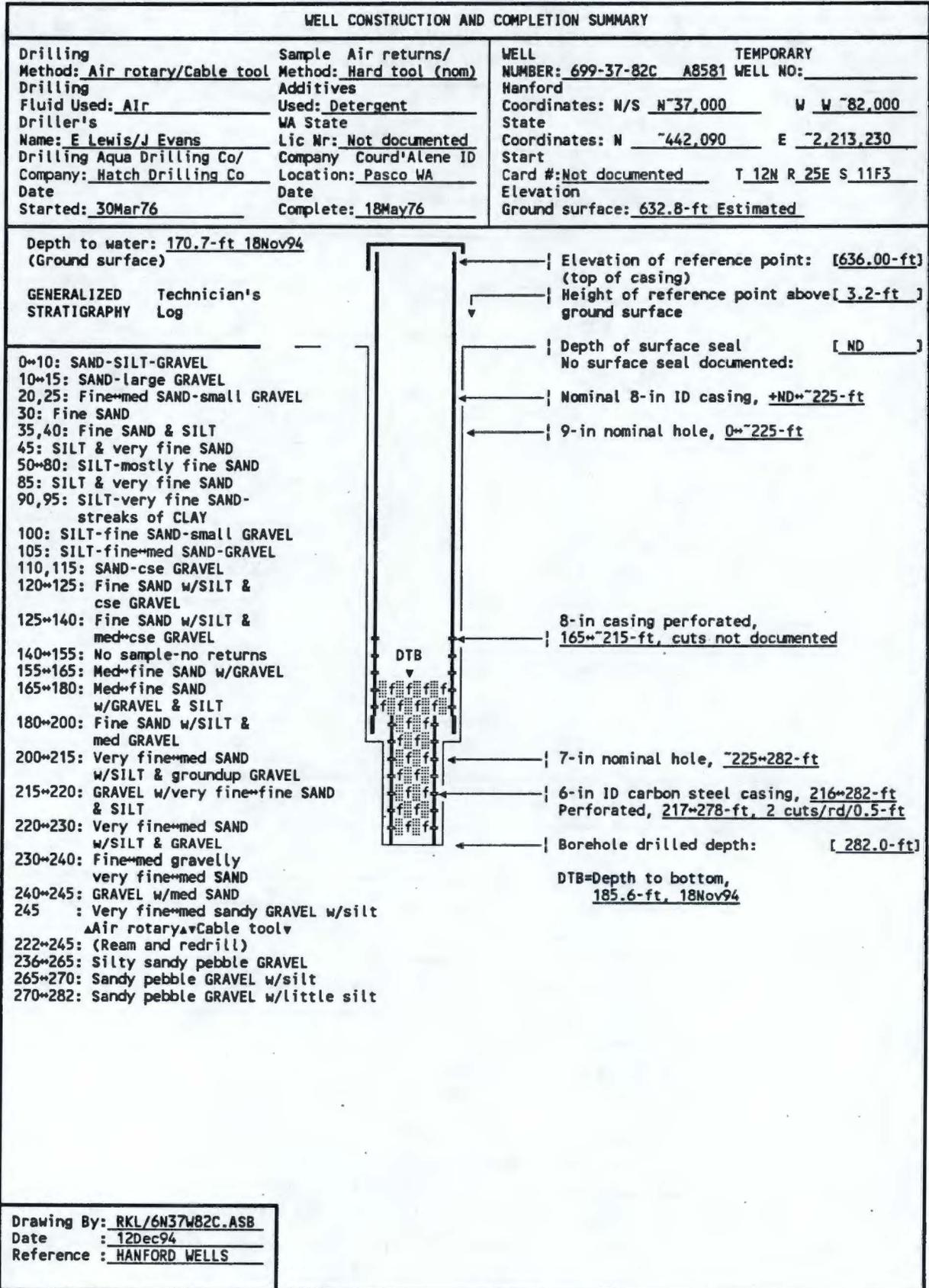


<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-37-82C</u>  Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <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 top of unconfined aquifer</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 annular seal documented</u>	
6a. Saturated formation/aquifers not connected? <input type="checkbox"/> <u>NA</u> ) <u>Probably penetrates unconfined aquifer only</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ) <u>Drilled before 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>No</u> ) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> ) <u>Well capped and locked</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>	
<b>RCRA/CERCLA MONITORING WELL?</b>	
10. Does water sample from vertical screened interval represent horizontal stratigraphy? <input type="checkbox"/> <u>N/A</u> ) <u>Not applicable</u>	
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10b. Vertical lithology documented? <input type="checkbox"/> <u>Yes</u> ) <u>Has driller's log</u>	

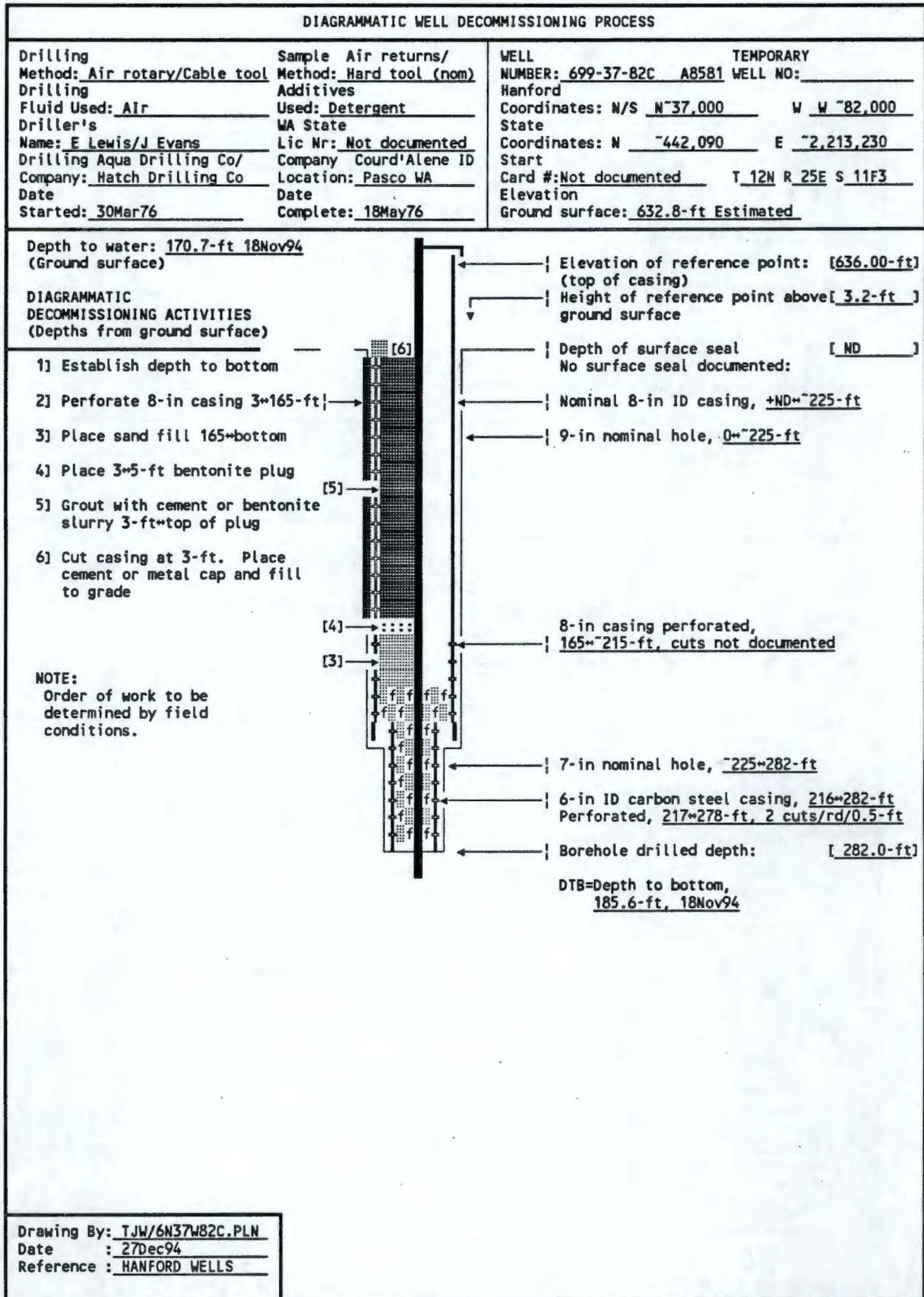
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Well is acceptable for intended use	( <u>No</u> )	Well lacks seals																	
Well is acceptable for intended use if variance is granted	( <u>NA</u> )	Not applicable																	
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Remediation 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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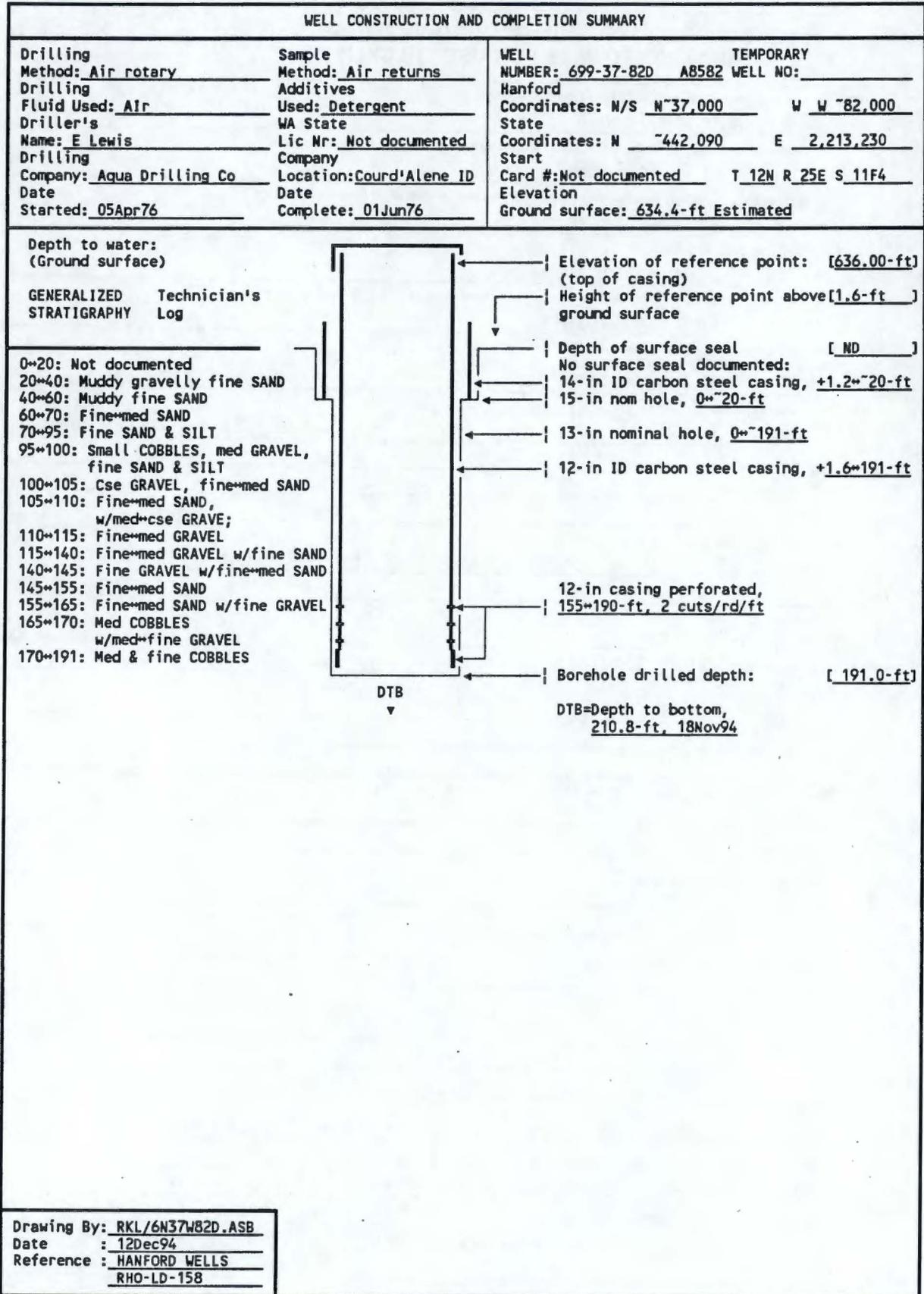
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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-37-82D</u>  Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ) No potential user identified	
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 top of unconfined aquifer	
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>Yes</u> ) Capped, and locked	
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>NA</u> ) Probably penetrates unconfined aquifer only	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ) Drilled before applicable date of WAC 173-303	
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> ) Well capped and locked	
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	
<b>RCRA/CERCLA MONITORING WELL?</b>	
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 driller's log	

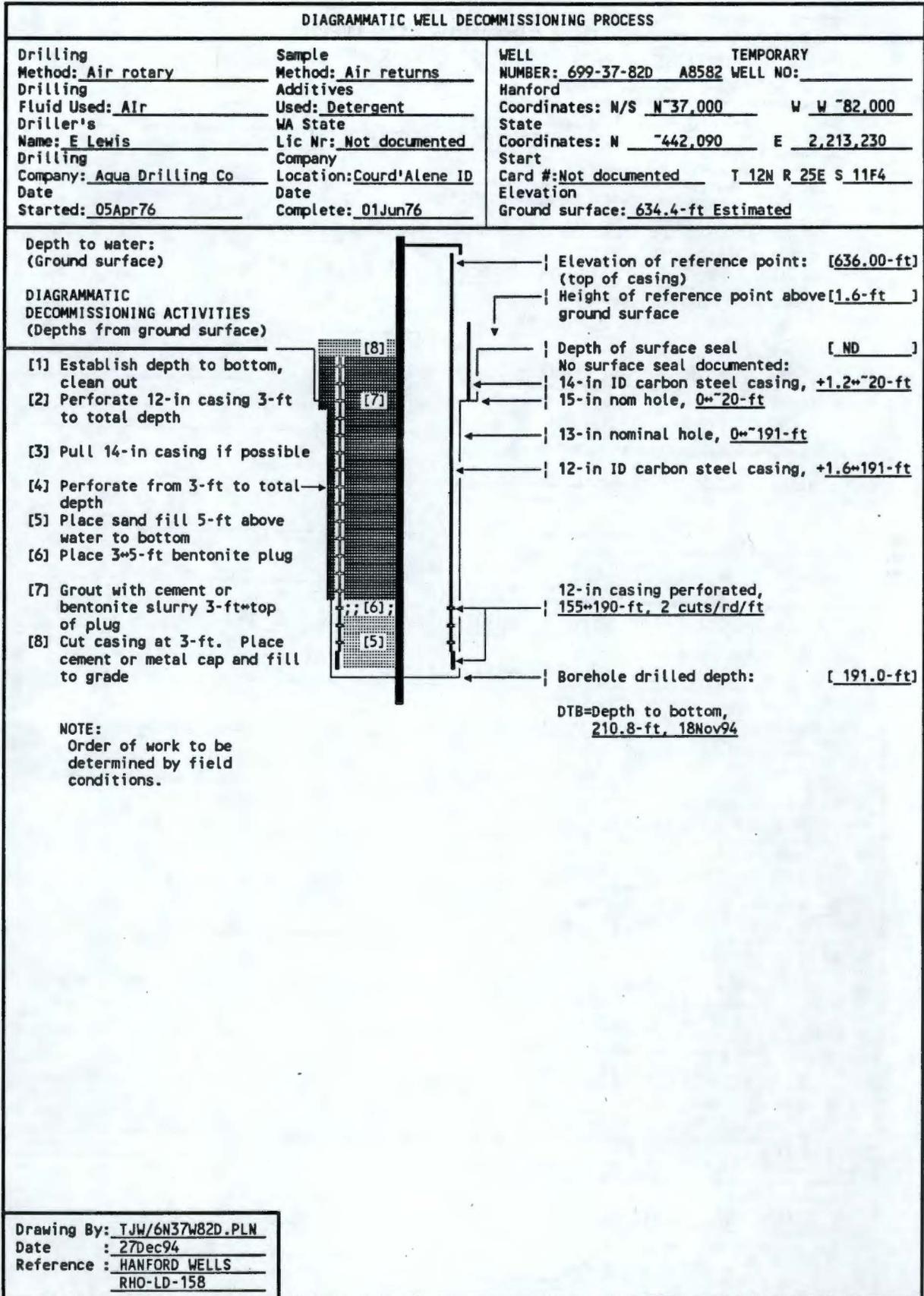
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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-37-82D</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable	
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>E. Lewis</u> Date: <u>06/01/76</u> Company: <u>Aqua</u> Geologist: _____ 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>11/18/94</u> 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>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>01/17/95</u>	

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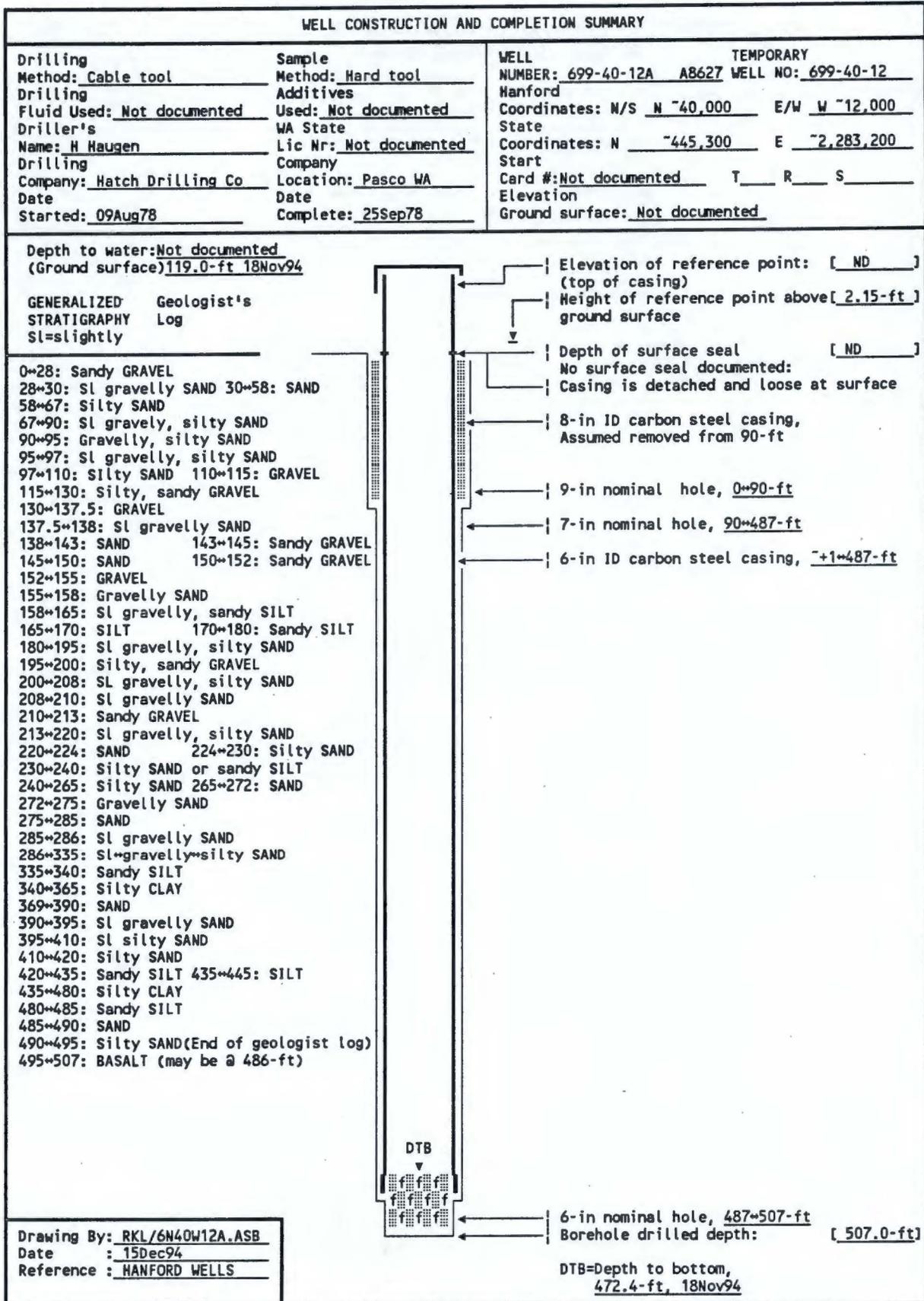
WHC-SD-EN-AP-161, Rev 0, Appendix C

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-40-12A</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>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 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 before 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>No</u> ) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>NO</u> ) <u>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>Yes</u> ) <u>Drillers log</u>	

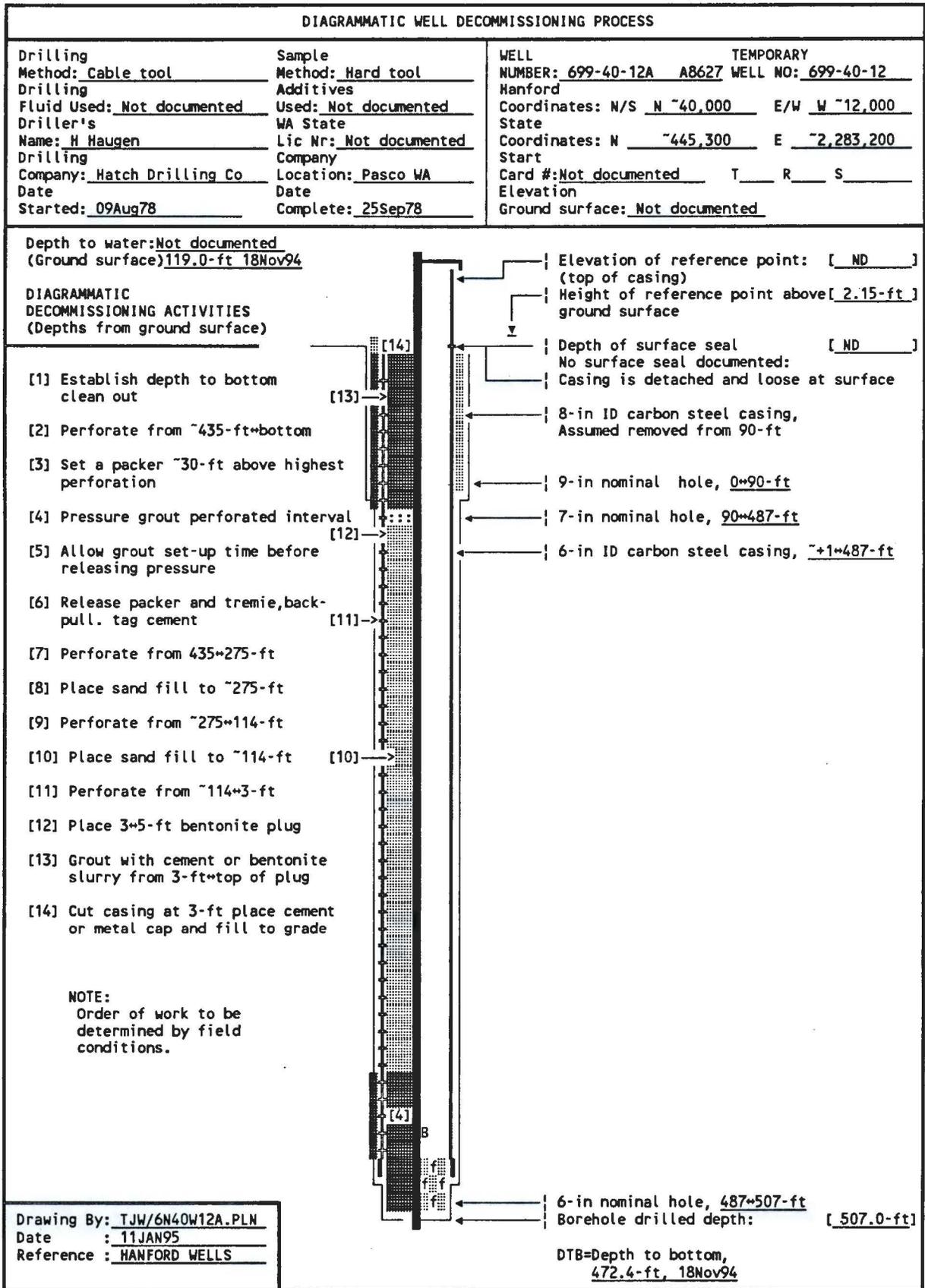
WHC-SD-EN-AP-161, Rev 0, Appendix C

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-40-12A</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:          Logs:          Driller's: <u>Hatch Drilling Co.</u> Date: <u>09/25/78</u> Company: <u>Haugen</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>11/18/94</u> 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> <input checked="" type="checkbox"/> <u>Well lacks seals</u>          Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u> <input checked="" type="checkbox"/> <u>Not applicable</u>          Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/> <u>Not applicable</u>          Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/> <u>Well has no identified user</u>          Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <input checked="" type="checkbox"/> <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>01/18/95</u></p>	

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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-49-13D</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 top of unconfined aquifer</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 welded shut</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>NA</u> ) <u>Probably penetrates unconfined aquifer only</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ) <u>Drilled before 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>No</u> ) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>Yes</u> ) <u>Well capped, welded shut</u>	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>Yes</u> ) <u>Concrete structure</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>	
<b>RCRA/CERCLA MONITORING WELL?</b>	
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>Has driller's log</u>	

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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-49-13D</u>
Page 2 of 2	

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: Durand Drilling Co. Date: 03/20/44 Company: \_\_\_\_\_

Geologist: \_\_\_\_\_ 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: 11/23/94 Company: \_\_\_\_\_

Other:  
 \_\_\_\_\_  
 \_\_\_\_\_

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

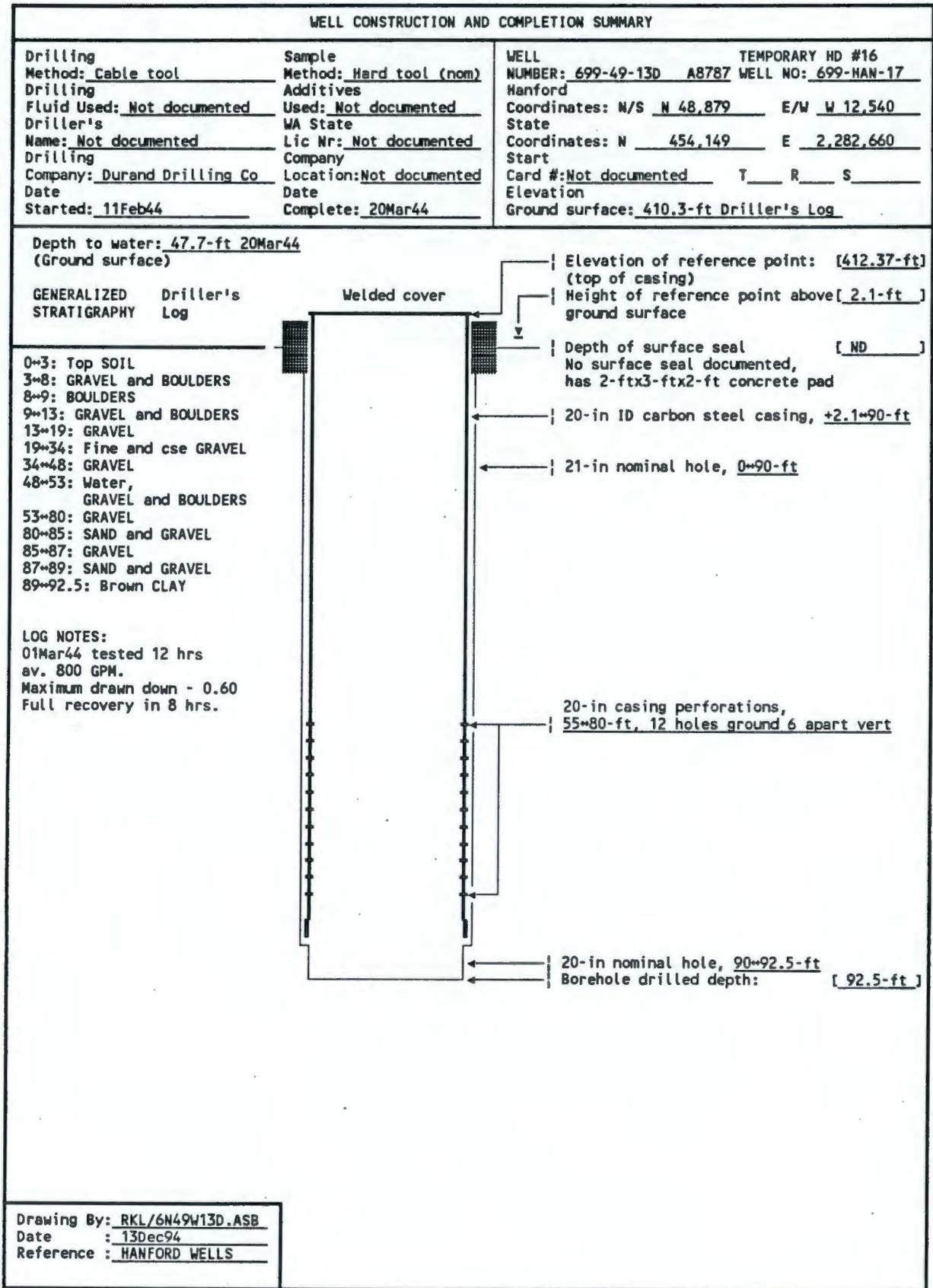
Remediation required to achieve intended use  No ) Well has no identified user

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

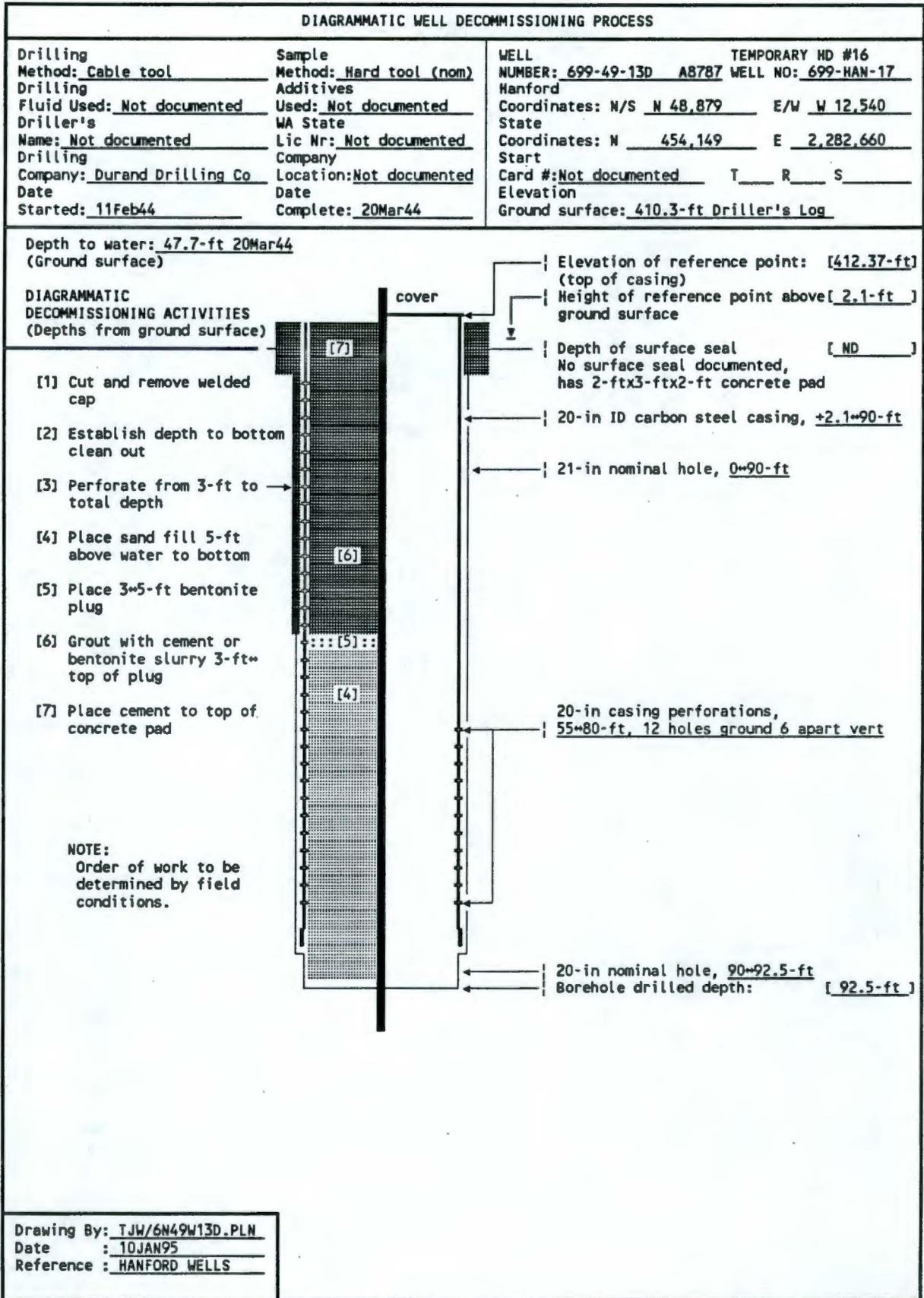
Other: \_\_\_\_\_  \_\_\_\_\_

16. Status Recommendation  
 Done By: Name: T. J. Wood Title: Senior Engineer Date: 01/17/95

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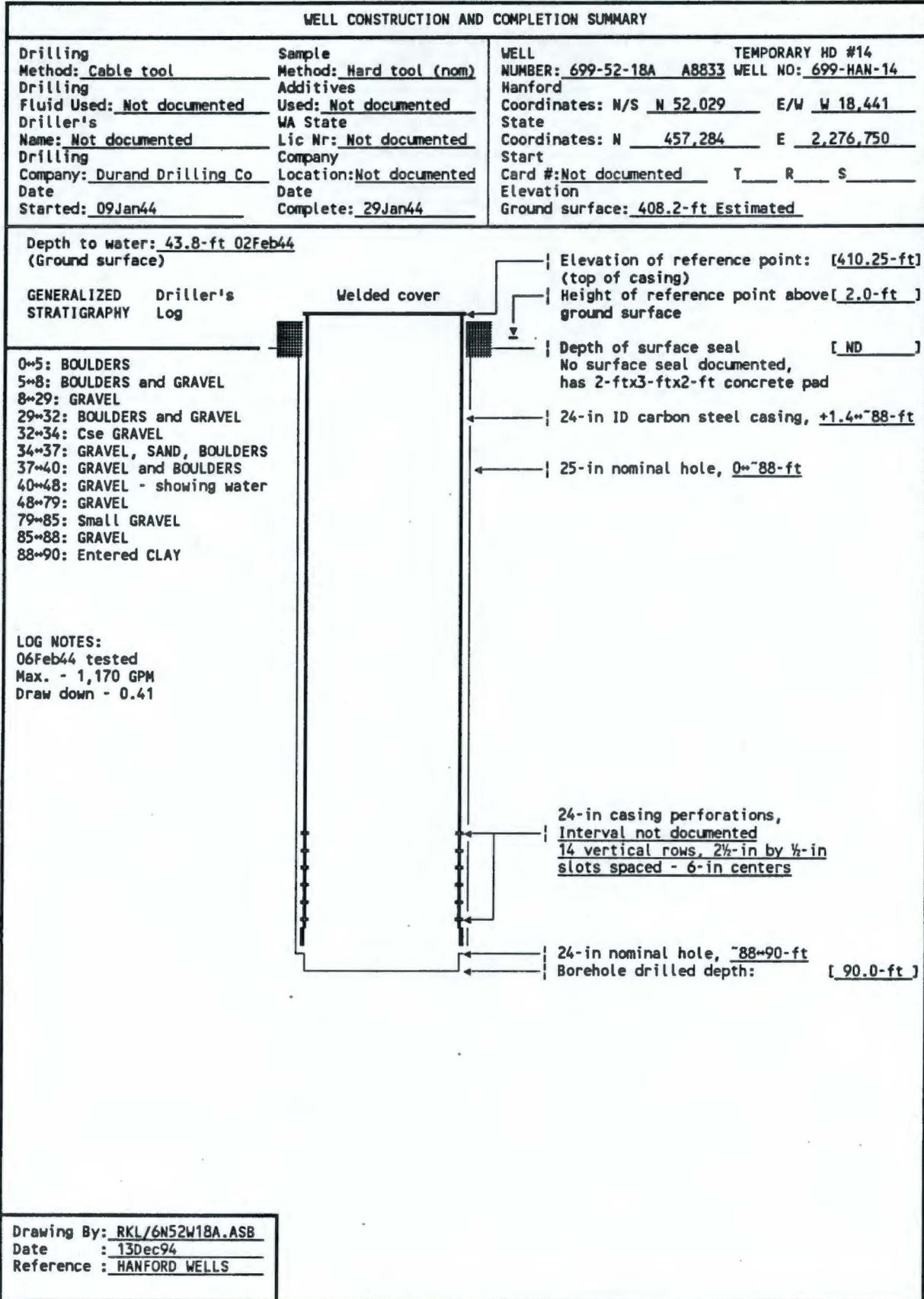
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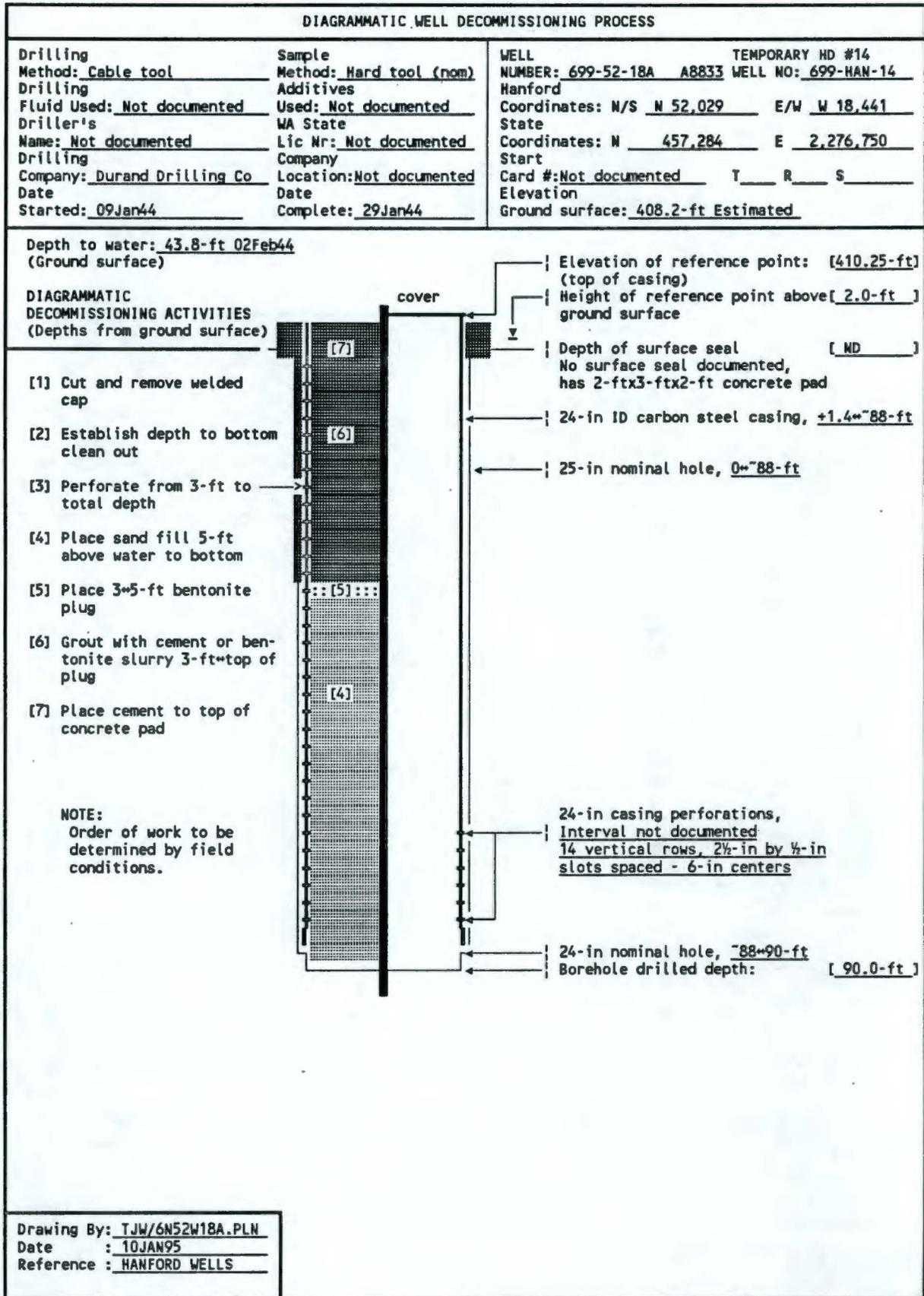
<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-52-18A</u>  Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ) No potential user identified	
3. Is well presently in use? <input type="checkbox"/> <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 top of unconfined aquifer	
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>Yes</u> ) Capped, and welded shut	
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>NA</u> ) Probably penetrates unconfined aquifer only	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ) Drilled before applicable date of WAC 173-303	
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> ) Well capped, welded shut	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>Yes</u> ) Concrete structure	
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	
<b>RCRA/CERCLA MONITORING WELL?</b>	
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 driller's log	



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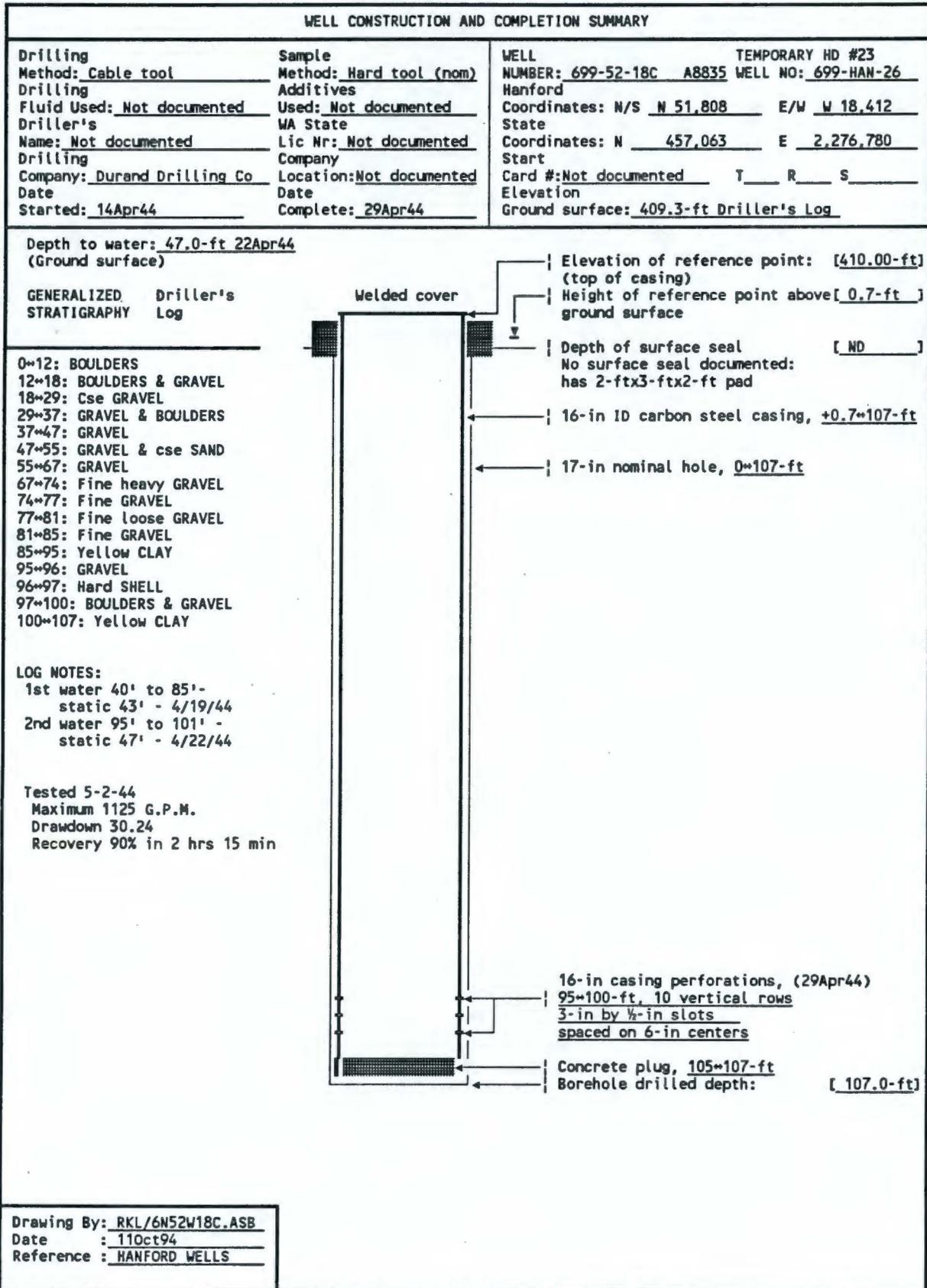


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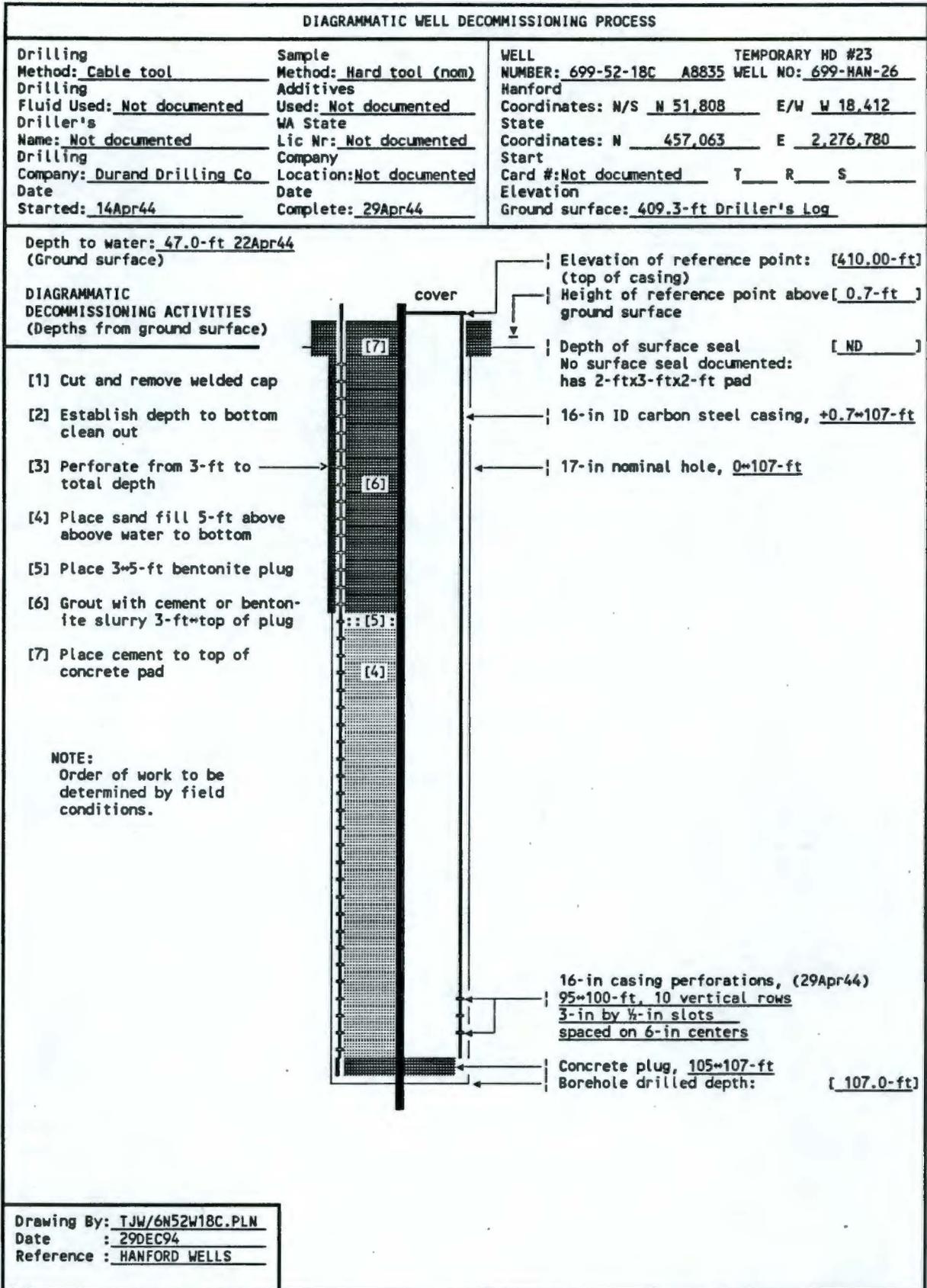
<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-52-18C</u>  Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ) No potential user identified	
3. Is well presently in use? <input type="checkbox"/> <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 top of unconfined aquifer	
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>Yes</u> ) Capped, and welded shut	
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>NA</u> ) Probably penetrates unconfined aquifer only	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ) Drilled before applicable date of WAC 173-303	
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> ) Well capped, welded shut	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>Yes</u> ) Concrete structure	
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	
<b>RCRA/CERCLA MONITORING WELL?</b>	
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 driller's log	

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-52-18C</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-5407 <input checked="" type="checkbox"/> <u>N/A</u> , Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input checked="" 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 checked="" type="checkbox"/> <u>N/A</u> , Not applicable	
11c. Well has been developed. <input checked="" type="checkbox"/> <u>N/A</u> , Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input checked="" 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 checked="" type="checkbox"/> <u>N/A</u> , Not applicable	
13. Data Sources Used:	
Logs:	
Driller's: <u>Durand Drilling Co.</u>	Date: <u>04/29/44</u> Company: _____
Geologist: _____	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>11/11/94</u> Company: _____
Other: _____ _____ _____	
14. Comments: Identify evaluation criteria addressed by number: _____ _____ _____ _____ _____ _____ _____ _____ _____	
15. Status	
Well is acceptable for intended use	<input checked="" type="checkbox"/> <u>No</u> ) <u>Well lacks seals</u>
Well is acceptable for intended use if variance is granted	<input checked="" type="checkbox"/> <u>NA</u> ) <u>Not applicable</u>
Rehabilitation required to continue intended use	<input checked="" type="checkbox"/> <u>No</u> ) <u>Not applicable</u>
Remediation required to achieve intended use	<input checked="" type="checkbox"/> <u>No</u> ) <u>Well has no identified user</u>
Decommission, well is unneeded or cannot be remediated	<input checked="" 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>01/17/95</u>	

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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-54-18E</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 top of unconfined aquifer	
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> ) Has flat metal plate	
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>NA</u> ) Probably penetrates unconfined aquifer only	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ) Drilled before applicable date of WAC 173-303	
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>NO</u> ) Flat metal plate	
7b. Protective posts, surface pad or cover installed? <input type="checkbox"/> <u>Yes</u> ) Concrete structure	
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	

**RESOURCE PROTECTION GROUNDWATER WELL  
STRUCTURE FITNESS FOR USE CHECKLIST**

1. Well No. 699-54-18E  
Page 2 of 2

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: Durand Drilling Co. Date: 12/05/43 Company: \_\_\_\_\_

Geologist: \_\_\_\_\_ 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: 11/14/94 Company: \_\_\_\_\_

Other:

14. Comments: Identify evaluation criteria addressed by number:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

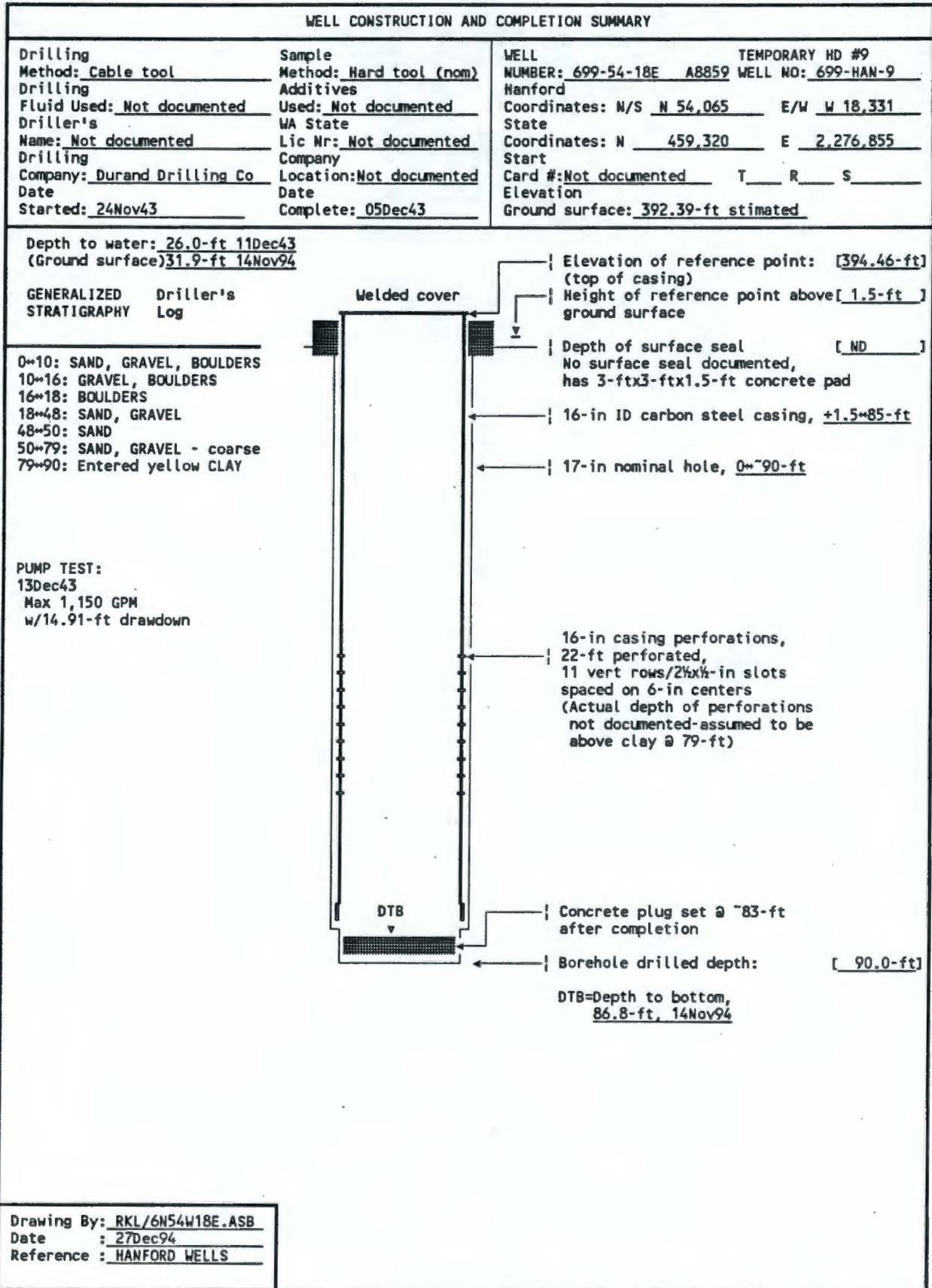
Decommission, well is unneeded or cannot be remediated  Yes ) Well has no identified need

Other \_\_\_\_\_  \_\_\_\_\_

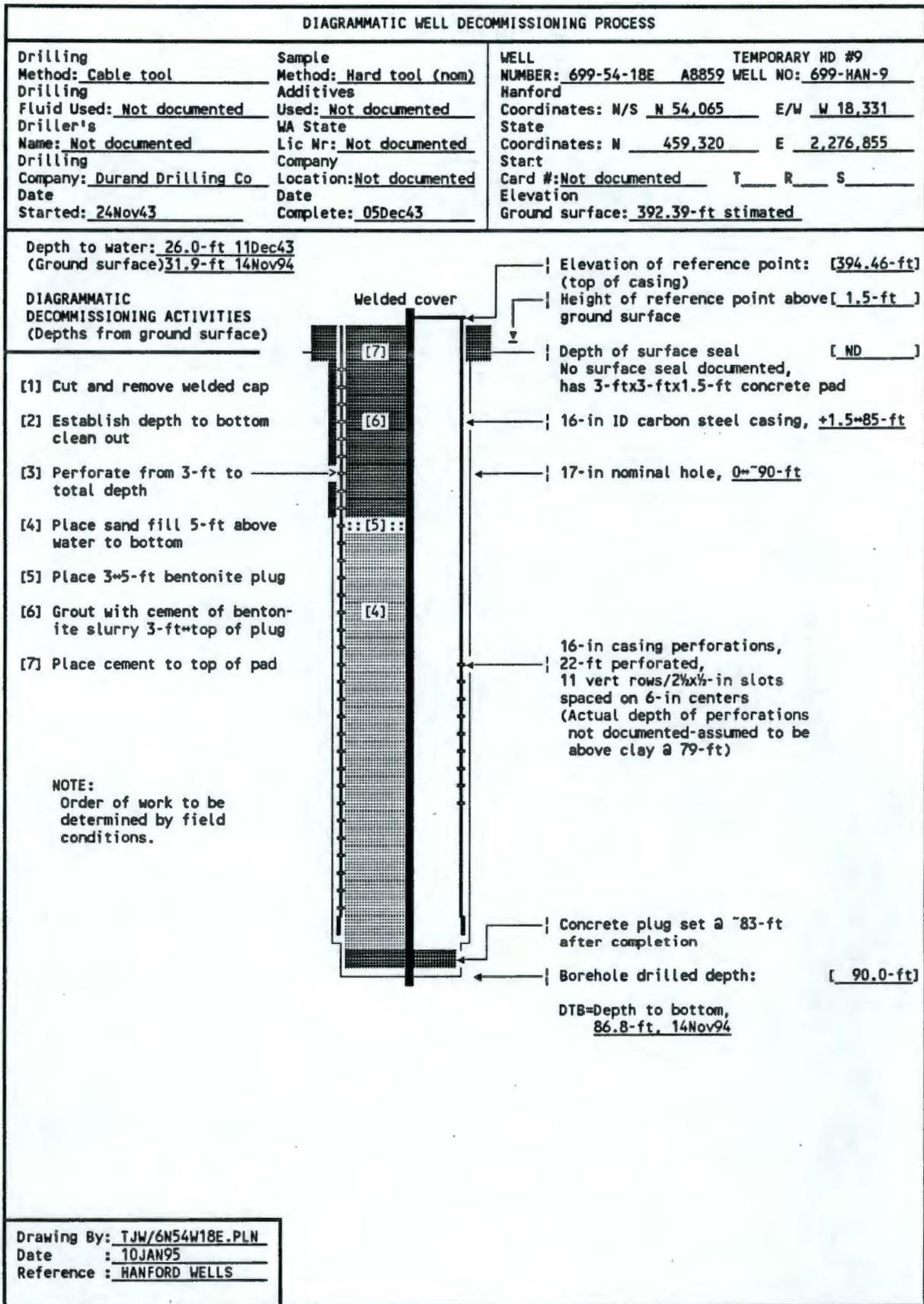
16. Status Recommendation

Done By: Name: T. J. Wood Title: Senior Engineer Date: 01/17/95

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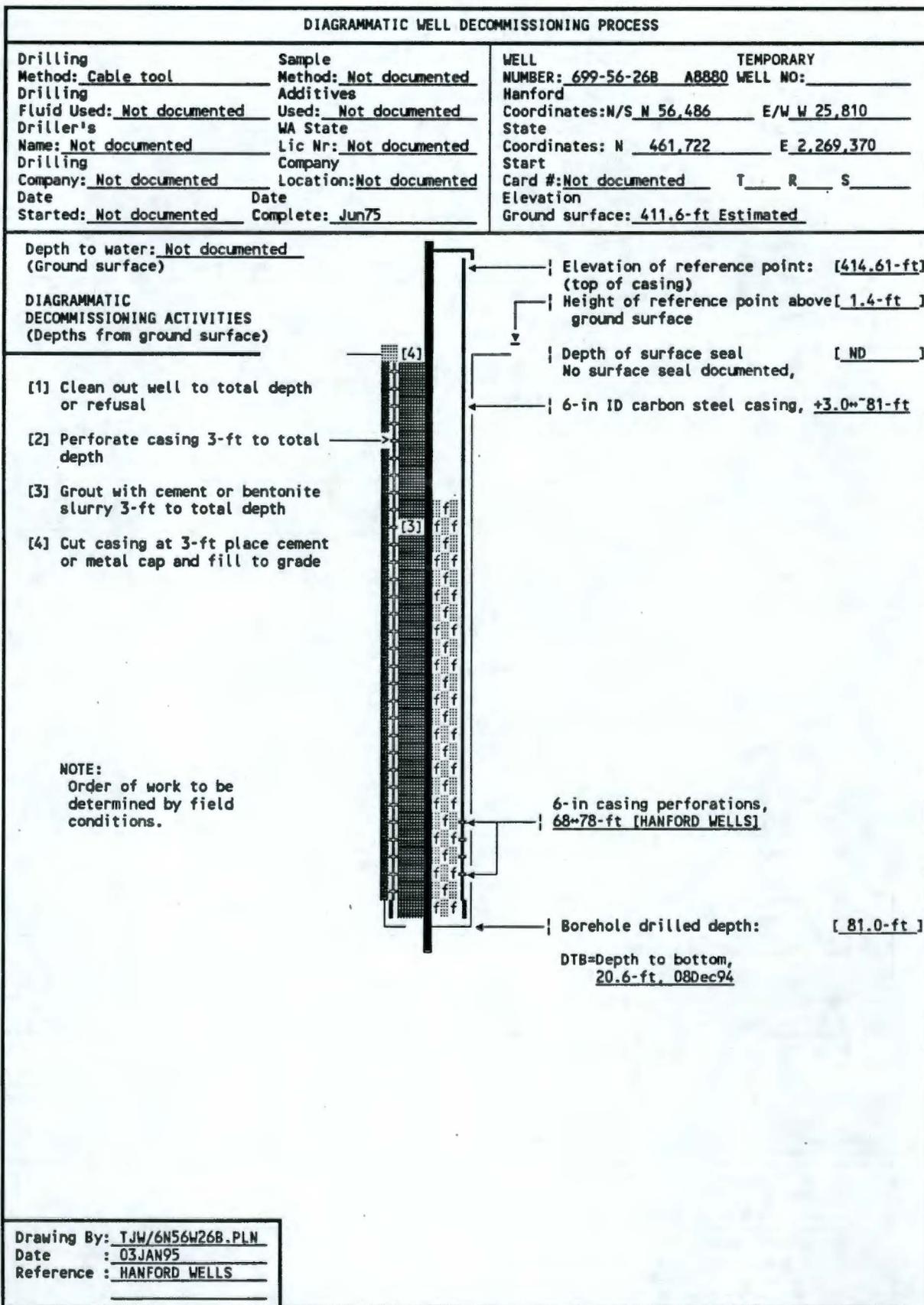
<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-56-26B</u>  Page 1 of 2
2. Has a need for use of the well been identified and documented? <input type="checkbox"/> <u>No</u> ) <u>No potential user identified</u>	
3. Is well presently in use? <input type="checkbox"/> <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 in dry 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>NO</u> ) <u>No cap present</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>Dry</u>	
6b. Cuttings/development water handled IAW WAC 173-303? <input type="checkbox"/> <u>N/A</u> ) <u>Drilled before 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>No</u> ) <u>No surface seal documented</u>	
7a. Well capped and protected? <input type="checkbox"/> <u>NO</u> ) <u>No cap was 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>	
<b>RCRA/CERCLA MONITORING WELL?</b>	
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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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-56-26B</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-540?  <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:          Logs:            Driller's: <u>Not Documented</u>                      Date: <u>04/01/75</u>    Company: _____            Geologist: _____                              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>12/08/94</u>    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>    <input checked="" type="checkbox"/> <u>Well lacks seals</u>          Well is acceptable for intended use if variance is granted    <input type="checkbox"/> <u>NA</u>    <input checked="" type="checkbox"/> <u>Not applicable</u>          Rehabilitation required to continue intended use            <input type="checkbox"/> <u>No</u>    <input checked="" type="checkbox"/> <u>Not applicable</u>          Remediation required to achieve intended use                <input type="checkbox"/> <u>No</u>    <input checked="" type="checkbox"/> <u>Well has no identified user</u>          Decommission, well is unneeded or cannot be remediated    <input type="checkbox"/> <u>Yes</u>    <input checked="" type="checkbox"/> <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>01/17/95</u></p>	



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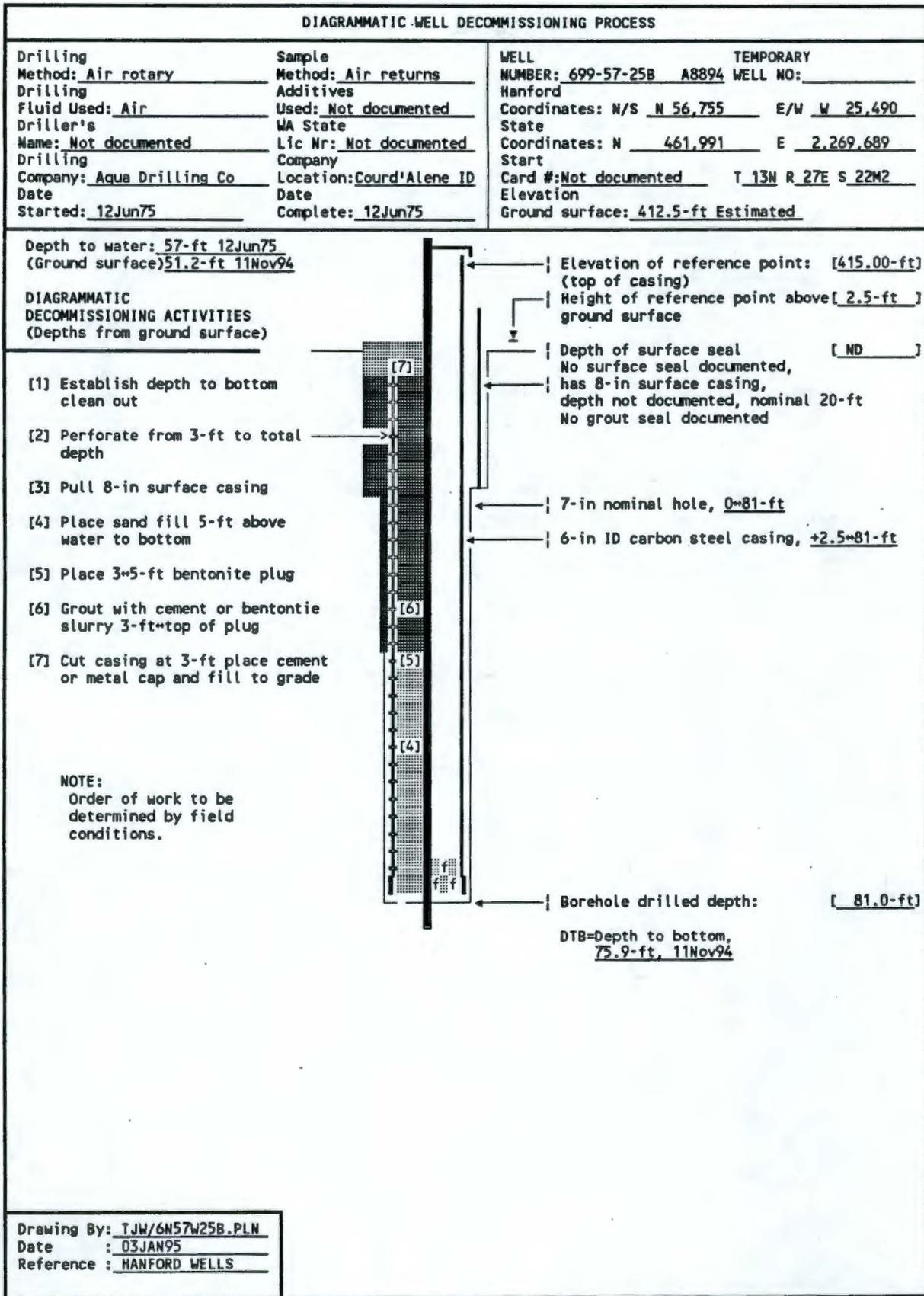
WHC-SD-EN-AP-161, Rev 0, Appendix C

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-57-25B</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 top of unconfined aquifer</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 annular seal documented</u></p> <p>6a. Saturated formation/aquifers not connected?  <input type="checkbox"/> <u>N/A</u> ) <u>Penetrated unconfined aquifer only</u></p> <p>6b. Cuttings/development water handled IAW WAC 173-303?  <input type="checkbox"/> <u>N/A</u> ) <u>Drilled before applicable date of WAC 173-303</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>Yes</u> ) <u>Capped and locked</u></p> <p>7b. Protective posts, surface pad or cover installed?  <input type="checkbox"/> <u>N/A</u> ) <u>Not applicable</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>	
<b>RCRA/CERCLA MONITORING WELL?</b>	
<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>Yes</u> ) <u>Has driller's log</u></p>	

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-57-25B</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-540?</p> <p><input checked="" type="checkbox"/> <u>N/A</u> ) Not applicable</p> <p>11a. Screen commercially fabricated of material nonreactive to subsurface conditions?  <input checked="" 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 checked="" type="checkbox"/> <u>N/A</u> ) Not applicable</p> <p>11c. Well has been developed.  <input checked="" type="checkbox"/> <u>N/A</u> ) Not applicable</p> <p>11d. Annulus grouted with bentonite or bentonite/cement mixture.  <input checked="" 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 checked="" type="checkbox"/> <u>N/A</u> ) Not applicable</p> <p>13. Data Sources Used:</p> <p>Logs:</p> <p>Driller's: <u>Aqua Drilling</u> Date: <u>04/12/75</u> Company: _____</p> <p>Geologist: _____ 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  <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>11/11/94</u> Company: _____</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>15. Status</p> <p>Well is acceptable for intended use <input checked="" type="checkbox"/> <u>No</u> ) <u>Well lacks seals</u></p> <p>Well is acceptable for intended use if variance is granted <input checked="" type="checkbox"/> <u>NA</u> ) <u>Not applicable</u></p> <p>Rehabilitation required to continue intended use <input checked="" type="checkbox"/> <u>No</u> ) <u>Not applicable</u></p> <p>Remediation required to achieve intended use <input checked="" type="checkbox"/> <u>No</u> ) <u>Well has no identified user</u></p> <p>Decommission, well is unneeded or cannot be remediated <input checked="" type="checkbox"/> <u>Yes</u> ) <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>01/17/95</u></p>	



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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <b>699-59-33</b>
	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 point with open top

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 before applicable date of WAC 173-303

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?  
 NO ) 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

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**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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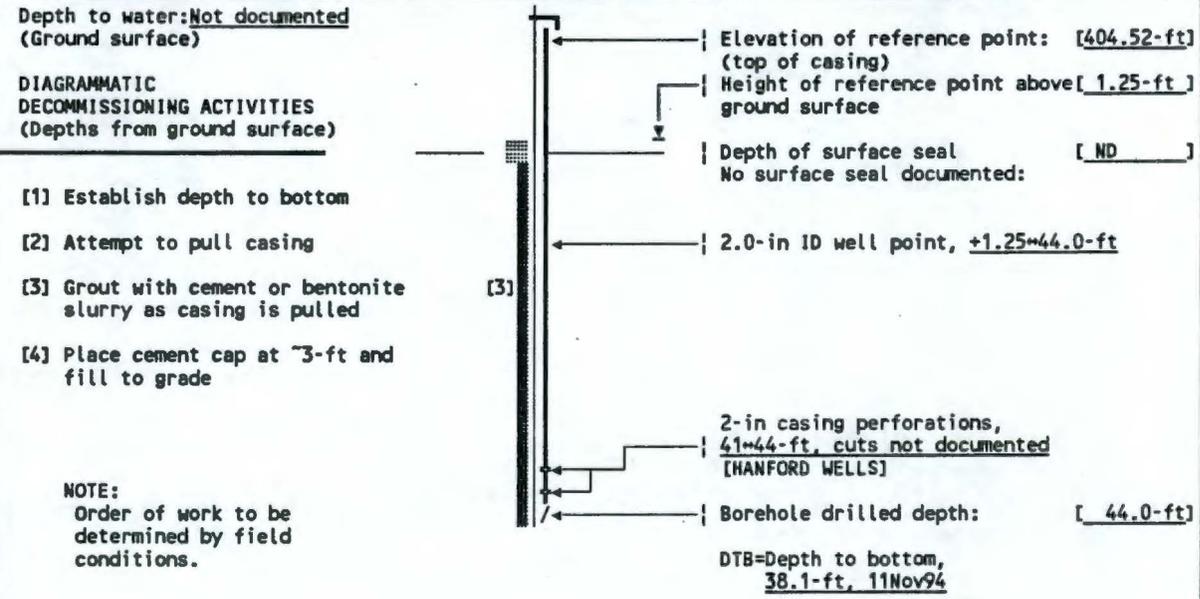
<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-59-33</u> Page 2 of 2
11. Is design and construction IAW WAC 173-160-540? <input type="checkbox"/> <u>N/A</u> <input checked="" type="checkbox"/> Not applicable	
11a. Screen commercially fabricated of material nonreactive to subsurface conditions? <input type="checkbox"/> <u>N/A</u> <input checked="" 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 checked="" type="checkbox"/> Not applicable	
11c. Well has been developed. <input type="checkbox"/> <u>N/A</u> <input checked="" type="checkbox"/> Not applicable	
11d. Annulus grouted with bentonite or bentonite/cement mixture. <input type="checkbox"/> <u>N/A</u> <input checked="" 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 checked="" type="checkbox"/> Not applicable	
13. Data Sources Used: Logs: Driller's: <u>N/A</u> Date: _____ Company: _____ 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>11/11/94</u> 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 checked="" type="checkbox"/> Well lacks seals Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</u> <input checked="" type="checkbox"/> Not applicable Rehabilitation required to continue intended use <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/> Not applicable Remediation required to achieve intended use <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/> Well has no identified user Decommission, well is unneeded or cannot be remediated <input type="checkbox"/> <u>Yes</u> <input checked="" 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>01/18/95</u>	



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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS

Drilling Method: <u>Not documented</u>	Sample Method: <u>Not documented</u>	WELL NUMBER: <u>699-59-33</u>	TEMPORARY WELL NO: <u>8916</u>
Drilling Fluid Used: <u>Not documented</u>	Additives Used: <u>Not documented</u>	Hanford Coordinates: N/S <u>N 59,439</u>	E/W <u>W 32,679</u>
Driller's Name: <u>Not documented</u>	WA State Lic Nr: <u>Not documented</u>	State Coordinates: N <u>464,6576</u>	E <u>2,262,494</u>
Drilling Company: <u>Not documented</u>	Company Location: <u>Not documented</u>	Start Card #: <u>Not documented</u>	T <u>    </u> R <u>    </u> S <u>    </u>
Date Started: <u>Not documented</u>	Date Complete: <u>Not documented</u>	Elevation	Ground surface: <u>403.3-ft Estimated</u>



Drawing By: TJW/6N59W33.PLN  
Date: 11JAN95  
Reference: HANFORD WELLS

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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <b>699-62-43B</b>
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 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> ) Not applicable</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> ) Capped and locked</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 driller's log</p>	

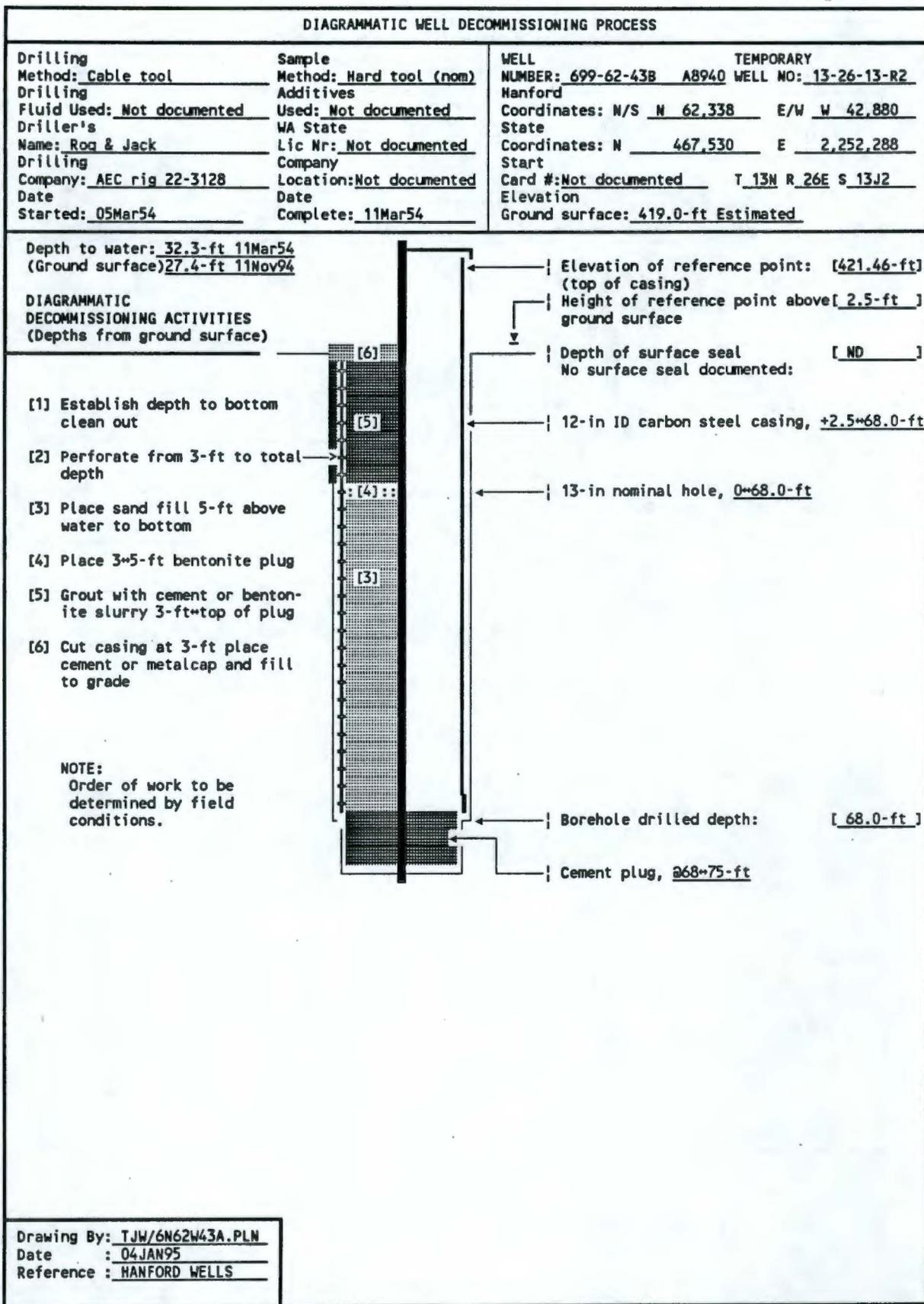
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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-62-43B</u> Page 2 of 2
<p>11. Is design and construction IAW WAC 173-160-5407  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> <u>Not applicable</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> <p>Driller's: <u>AEC Rig 22-3128</u> Date: <u>03/11/54</u> Company: _____          Geologist: _____ 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>11/14/94</u> Company: _____          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 lacks seals</u></p> <p>Well is acceptable for intended use if variance is granted <input type="checkbox"/> <u>NA</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          Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>01/17/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY					
<b>Drilling</b> Method: <u>Cable tool</u> Fluid Used: <u>Not documented</u> Driller's Name: <u>Rog &amp; Jack</u> Drilling Company: <u>AEC rig 22-3128</u> Date Started: <u>05Mar54</u>	<b>Sample</b> Method: <u>Hard tool (nom)</u> Additives Used: <u>Not documented</u> WA State Lic Nr: <u>Not documented</u> Location: <u>Not documented</u> Date Complete: <u>11Mar54</u>	<b>WELL</b> TEMPORARY NUMBER: <u>699-62-43B A8940</u> WELL NO: <u>13-26-13-R2</u> Hanford Coordinates: N/S <u>N 62,338</u> E/W <u>W 42,880</u> State Start Coordinates: N <u>467,530</u> E <u>2,252,288</u> Card #: <u>Not documented</u> T <u>13N</u> R <u>26E</u> S <u>13J2</u> Elevation Ground surface: <u>419.0-ft Estimated</u>			
Depth to water: <u>32.3-ft 11Mar54</u> (Ground surface) <u>27.4-ft 11Nov94</u>					
GENERALIZED Driller's STRATIGRAPHY Log					
<table style="width:100%; border: none;"> <tr> <td style="width:35%; border: none; vertical-align: top;"> <p>0-5: TOPSOIL &amp; SAND                              2-12.5: GRAVEL and SAND                              12.5-22.5: GRAVEL, very little SAND                              22.5-27.5: 50%loose SAND, 50%GRAVEL                              27.5-32.5: Loose SAND and GRAVEL                              32.5-47.5: 25%SAND, 75%GRAVEL                              47.5-52.5: 95%GRAVEL, 5%SAND                              52.5-65: 95%b&amp;w SAND, 5%GRAVEL                              65-68: Light tan SILT</p> </td> <td style="width:30%; border: none; vertical-align: top;">  <p>The diagram shows a vertical well casing starting at an elevation of 421.46 ft. The casing is 12-in ID carbon steel from 2.5 ft to 68.0 ft depth. Below the casing, there is a 13-in nominal hole from 0 ft to 68.0 ft depth. At the bottom, there is a cement plug from 68 ft to 75 ft depth. The borehole drilled depth is 68.0 ft.</p> </td> <td style="width:35%; border: none; vertical-align: top;"> <p>Elevation of reference point: [421.46-ft]                              (top of casing)                              Height of reference point above [2.5-ft]                              ground surface                              Depth of surface seal [ND]                              No surface seal documented:                              12-in ID carbon steel casing, +2.5-68.0-ft                              13-in nominal hole, 0-68.0-ft                              Borehole drilled depth: [68.0-ft]                              Cement plug, @68-75-ft</p> </td> </tr> </table>			<p>0-5: TOPSOIL &amp; SAND                              2-12.5: GRAVEL and SAND                              12.5-22.5: GRAVEL, very little SAND                              22.5-27.5: 50%loose SAND, 50%GRAVEL                              27.5-32.5: Loose SAND and GRAVEL                              32.5-47.5: 25%SAND, 75%GRAVEL                              47.5-52.5: 95%GRAVEL, 5%SAND                              52.5-65: 95%b&amp;w SAND, 5%GRAVEL                              65-68: Light tan SILT</p>	 <p>The diagram shows a vertical well casing starting at an elevation of 421.46 ft. The casing is 12-in ID carbon steel from 2.5 ft to 68.0 ft depth. Below the casing, there is a 13-in nominal hole from 0 ft to 68.0 ft depth. At the bottom, there is a cement plug from 68 ft to 75 ft depth. The borehole drilled depth is 68.0 ft.</p>	<p>Elevation of reference point: [421.46-ft]                              (top of casing)                              Height of reference point above [2.5-ft]                              ground surface                              Depth of surface seal [ND]                              No surface seal documented:                              12-in ID carbon steel casing, +2.5-68.0-ft                              13-in nominal hole, 0-68.0-ft                              Borehole drilled depth: [68.0-ft]                              Cement plug, @68-75-ft</p>
<p>0-5: TOPSOIL &amp; SAND                              2-12.5: GRAVEL and SAND                              12.5-22.5: GRAVEL, very little SAND                              22.5-27.5: 50%loose SAND, 50%GRAVEL                              27.5-32.5: Loose SAND and GRAVEL                              32.5-47.5: 25%SAND, 75%GRAVEL                              47.5-52.5: 95%GRAVEL, 5%SAND                              52.5-65: 95%b&amp;w SAND, 5%GRAVEL                              65-68: Light tan SILT</p>	 <p>The diagram shows a vertical well casing starting at an elevation of 421.46 ft. The casing is 12-in ID carbon steel from 2.5 ft to 68.0 ft depth. Below the casing, there is a 13-in nominal hole from 0 ft to 68.0 ft depth. At the bottom, there is a cement plug from 68 ft to 75 ft depth. The borehole drilled depth is 68.0 ft.</p>	<p>Elevation of reference point: [421.46-ft]                              (top of casing)                              Height of reference point above [2.5-ft]                              ground surface                              Depth of surface seal [ND]                              No surface seal documented:                              12-in ID carbon steel casing, +2.5-68.0-ft                              13-in nominal hole, 0-68.0-ft                              Borehole drilled depth: [68.0-ft]                              Cement plug, @68-75-ft</p>			
REMEDIATION: Apr75 by D Bigham Cleaned well to 75-ft deep, set cement plug in bottom of well					
Drawing By: <u>RKL/6N62W43A.ASB</u> Date : <u>13Dec94</u> Reference : <u>HANFORD WELLS</u>					

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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <b>699-63-25B</b>
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"/> No potential user identified</p> <p>3. Is well presently in use?  <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No use identified</p> <p>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</p> <p>4a. Natural barriers preserved?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Well terminates within top unconfined aquifer</p> <p>4b. Aquifer/strata penetrated permanently sealed?  <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No seals documented</p> <p>4c. Annulus sealed against surface water?  <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No surface seal documented</p> <p>4d. Casing overlap more than 8 ft; packed and grouted?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>5. If not in use, is well capped IAW WAC 173-160-085?  <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> Capped</p> <p>6. Is design and construction IAW WAC 173-160-500?  <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No annular seal documented</p> <p>6a. Saturated formation/aquifers not connected?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>6b. Cuttings/development water handled IAW WAC 173-303?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Drilled before applicable date of WAC 173-303</p> <p>6c. Well properly identified?  <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No permanent identification</p> <p>7. Is surface protection IAW WAC 173-160-510?  <input type="checkbox"/> <u>No</u> <input type="checkbox"/> No surface seal documented</p> <p>7a. Well capped and protected?  <input type="checkbox"/> <u>NO</u> <input type="checkbox"/> Capped, no posts or pad present</p> <p>7b. Protective posts, surface pad or cover installed?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>7c. Surface protection waived or variance obtained?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>7d. Is existing surface protection damaged?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>8. Are casing materials IAW 173-160-520?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>9. Was drill rig/drilling equipment cleaned IAW WAC 173-160-530?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>9a. Drill rig/equipment casing/screen cleaned?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>9b. Filter pack cleaned? Material compatible?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p>	
<b>RCRA/CERCLA MONITORING WELL?</b>	
<p>10. Does water sample from vertical screened interval represent horizontal stratigraphy?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>10a. Screened interval documented?  <input type="checkbox"/> <u>N/A</u> <input type="checkbox"/> Not applicable</p> <p>10b. Vertical lithology documented?  <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> Has driller's log</p>	

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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-63-25B</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:          Logs:            Driller's: <u>Hatch Drilling Co</u>                      Date: <u>01/26/67</u>    Company: <u>Bigham</u>            Geologist: _____                              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>12/28/94</u>    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> <input type="checkbox"/> <u>Well lacks seals</u>          Well is acceptable for intended use if variance is granted    <input type="checkbox"/> <u>NA</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"/> _____</p> <p>16. Status Recommendation          Done By:            Name: <u>T. J. Wood</u>                      Title: <u>Senior Engineer</u>                      Date: <u>01/17/95</u></p>	

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WELL CONSTRUCTION AND COMPLETION SUMMARY		
<b>Drilling</b> Method: <u>Cable tool</u> Drilling Fluid Used: <u>None</u> Driller's Name: <u>D Bigham</u> Drilling Company: <u>Hatch Drilling Co</u> Date Started: <u>19Jan67</u>	<b>Sample Drive barrel/ Method:</b> <u>hard tool</u> <b>Additives</b> Used: <u>None</u> WA State Lic Nr: <u>Not documented</u> Company Location: <u>Pasco WA</u> Date Complete: <u>26Jan67</u>	<b>WELL</b> TEMPORARY NUMBER: <u>699-63-25B</u> A8955 WELL NO: <u>699-63-25A</u> Manford Coordinates: N/S <u>N 63,200</u> E/W <u>W 24,600</u> State Coordinates: N <u>468,439</u> E <u>2,270,563</u> Start Card #: <u>Not documented</u> T <u>13N</u> R <u>27E</u> S <u>15E2</u> Elevation Ground surface: <u>383.0-ft Estimated</u>
Depth to water: <u>37-ft 25Jan67</u> (Ground surface) <u>31.7-ft 08Dec94</u>		
<b>GENERALIZED Driller's STRATIGRAPHY Log</b>		
0-3: Hard packed SILT w/GRAVEL LARGE boulder @ 2.5-ft 10 : Cse SAND and GRAVEL 12 : Large GRAVEL 15 : COBBLES, SAND & SILT 20-37: BOULDERS, COBBLES & SILT 37-45: Fine SAND and SILT 45-50: 1-in GRAVEL and SAND	<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 6-inch ID carbon steel casing, extending from +2.0 to +50.0 feet. Below the casing, a vertical line represents the 7-inch nominal hole, extending from 0 to 50.0 feet. At the bottom of the hole, there is a symbol for a Drive to Bottom (DTB) tool bit, with a downward arrow indicating the depth to the bottom. A horizontal line at the top of the casing is labeled 'Elevation of reference point: [385.00-ft] (top of casing)'. A vertical dimension line between the reference point and the ground surface is labeled 'Height of reference point above [ 2.0-ft ] ground surface'. A horizontal line at the top of the casing is labeled 'Depth of surface seal [ ND ]' and 'No surface seal documented:'. A horizontal line at the bottom of the casing is labeled '6-in ID carbon steel casing, +2.0-50.0-ft'. A horizontal line at the bottom of the hole is labeled '7-in nominal hole, 0-50.0-ft'. A horizontal line at the bottom of the hole is labeled 'Borehole drilled depth: [ 50.0-ft ]'. Below the diagram, it says 'DTB=Depth to bottom, 47.2-ft, 08Dec94'.</p>	
DTB=Depth to bottom, <u>47.2-ft, 08Dec94</u>		
Drawing By: <u>RKL/6N63W25B.ASB</u> Date : <u>15Dec94</u> Reference : <u>HANFORD WELLS</u>		

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DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
<b>Drilling Method:</b> <u>Cable tool</u> <b>Drilling Fluid Used:</b> <u>None</u> <b>Driller's Name:</b> <u>D Bigham</u> <b>Drilling Company:</b> <u>Hatch Drilling Co</u> <b>Date Started:</b> <u>19Jan67</u>	<b>Sample Drive barrel/ Method:</b> <u>hard tool</u> <b>Additives Used:</b> <u>None</u> <b>WA State Lic Nr:</b> <u>Not documented</u> <b>Company Location:</b> <u>Pasco WA</u> <b>Date Complete:</b> <u>26Jan67</u>	<b>WELL NUMBER:</b> <u>699-63-25B</u> <b>TEMPORARY</b> <b>WELL NO:</b> <u>699-63-25A</u> <b>State:</b> <u>Hanford</u> <b>Coordinates:</b> N/S <u>N 63,200</u> E/W <u>W 24,600</u> <b>State Coordinates:</b> N <u>468,439</u> E <u>2,270,563</u> <b>Start Card #:</b> <u>Not documented</u> T <u>13N</u> R <u>27E</u> S <u>15E2</u> <b>Elevation Ground surface:</b> <u>383.0-ft Estimated</u>
<p>Depth to water: <u>37-ft 25Jan67</u>                  (Ground surface) <u>31.7-ft 08Dec94</u></p> <p><b>DIAGRAMMATIC DECOMMISSIONING ACTIVITIES</b>                  (Depths from ground surface)</p>		
<p>[1] Establish depth to bottom clean out</p> <p>[2] Perforate from 3-ft to total depth</p> <p>[3] Place sand fill 5-ft above water to bottom</p> <p>[4] Place 3-5-ft bentonite plug</p> <p>[5] Grout with cement or bentonite slurry 3-ft top of plug</p> <p>[6] Cut casing at 3-ft place cement or metal cap and fill to grade</p>		<p>Elevation of reference point: [385.00-ft] (top of casing)                  Height of reference point above [2.0-ft] ground surface</p> <p>Depth of surface seal [ND] No surface seal documented:</p> <p>6-in ID carbon steel casing, +2.0-50.0-ft</p> <p>7-in nominal hole, 0-50.0-ft</p> <p>Borehole drilled depth: [50.0-ft]</p> <p>DTB=Depth to bottom, <u>47.2-ft, 08Dec94</u></p>
<p><b>NOTE:</b>                  Order of work to be determined by field conditions.</p>		
<p>Drawing By: <u>TJW/6M63W25B.PLN</u>                  Date : <u>04JAN95</u>                  Reference : <u>HANFORD WELLS</u></p>		

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

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-65-59B</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 top unconfined aquifer

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?  
 Yes ) 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 before applicable date of WAC 173-303

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?  
 NO ) 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

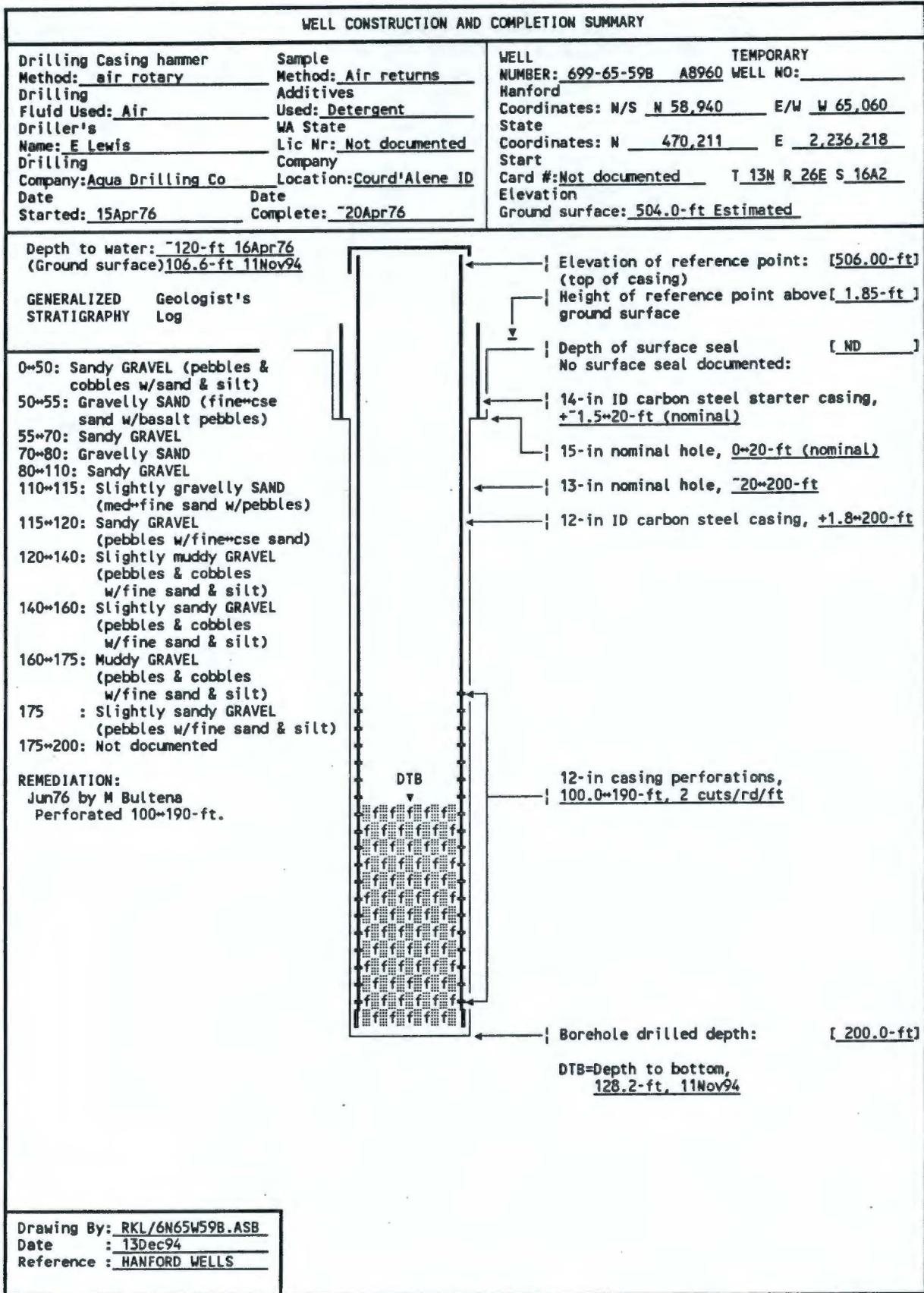
10a. Screened interval documented?  
 N/A ) Not applicable

10b. Vertical lithology documented?  
 Yes ) Has driller's log

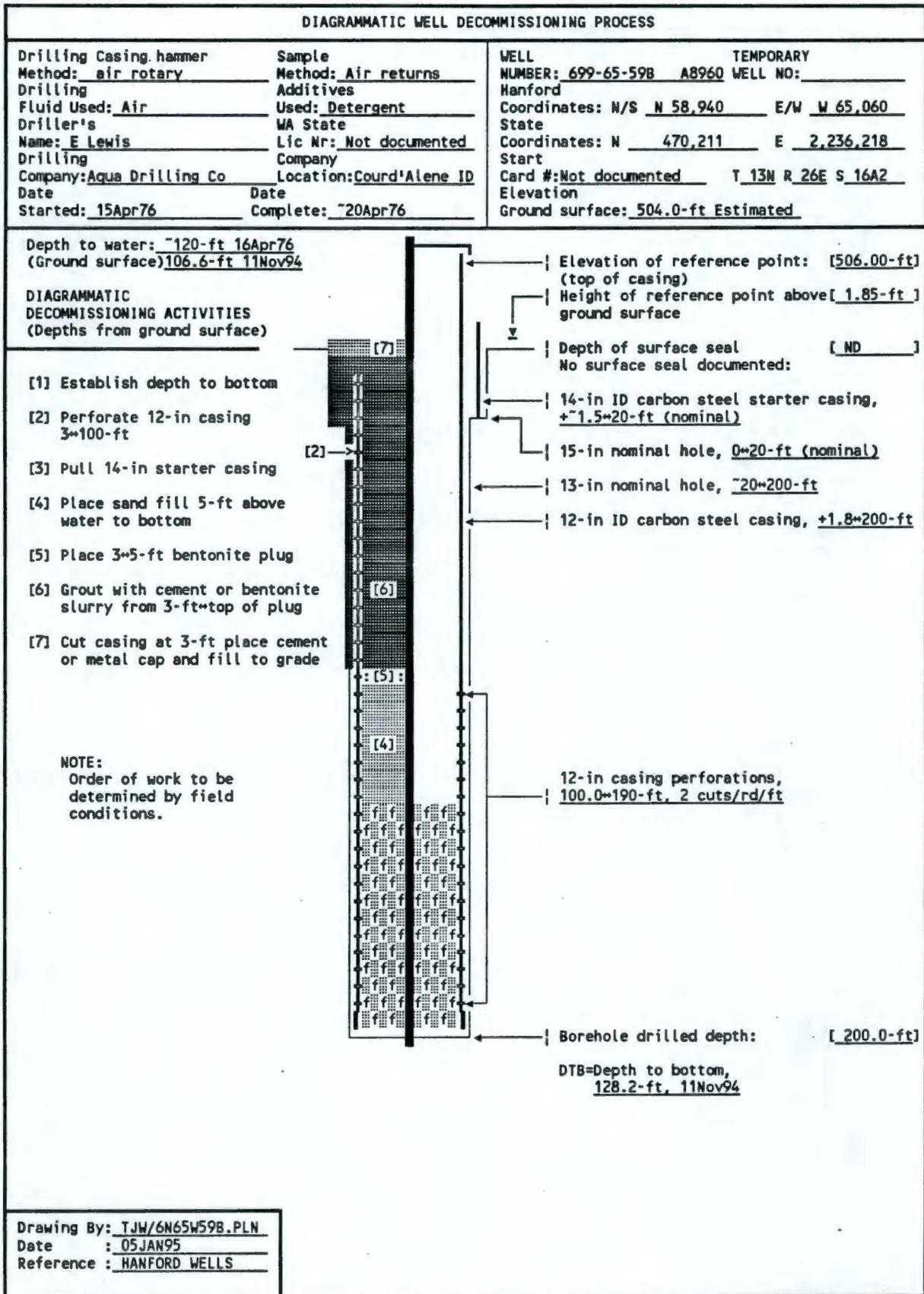
WHC-SD-EN-AP-161, Rev 0, Appendix C

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-65-59B</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:          Logs:          Driller's: <u>Aqua Drilling Co</u> Date: <u>04/20/76</u> Company: <u>E. Lewis</u>          Geologist: _____ 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>11/11/94</u> Company: _____          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%;"><input type="checkbox"/> <u>No</u></td> <td style="width:45%;"><input checked="" 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>NA</u></td> <td><input checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> <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>	<input checked="" type="checkbox"/> <u>Well lacks seals</u>	Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	<input checked="" type="checkbox"/> <u>Not applicable</u>	Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	<input checked="" type="checkbox"/> <u>Not applicable</u>	Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	<input checked="" type="checkbox"/> <u>Well has no identified user</u>	Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	<input checked="" type="checkbox"/> <u>Well has no identified need</u>	Other _____	<input type="checkbox"/> _____	_____
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	<input checked="" type="checkbox"/> <u>Well lacks seals</u>																	
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	<input checked="" type="checkbox"/> <u>Not applicable</u>																	
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	<input checked="" type="checkbox"/> <u>Not applicable</u>																	
Remediation required to achieve intended use	<input type="checkbox"/> <u>No</u>	<input checked="" type="checkbox"/> <u>Well has no identified user</u>																	
Decommission, well is unneeded or cannot be remediated	<input type="checkbox"/> <u>Yes</u>	<input checked="" type="checkbox"/> <u>Well has no identified need</u>																	
Other _____	<input type="checkbox"/> _____	_____																	
<p>16. Status Recommendation          Done By: Name: <u>T. J. Wood</u> Title: <u>Senior Engineer</u> Date: <u>01/17/95</u></p>																			

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



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



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

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-65-59C</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 top unconfined aquifer</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</u></p> <p>6. Is design and construction IAW WAC 173-160-500?  <input type="checkbox"/> <u>No</u> <u>No 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>Drilled before applicable date of WAC 173-303</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>Capped, no posts or pad present</u></p> <p>7b. Protective posts, surface pad or cover installed?  <input type="checkbox"/> <u>N/A</u> <u>Not applicable</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>	
<b>RCRA/CERCLA MONITORING WELL?</b>	
<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>Yes</u> <u>Has driller's log</u></p>	

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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-65-59C</u>
Page 2 of 2	

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>Aqua Drilling Co</u>	Date: <u>05/12/76</u>	Company: <u>E. Lewis</u>
Geologist: _____	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: 11/11/94 Company: \_\_\_\_\_

Other:  
 \_\_\_\_\_  
 \_\_\_\_\_

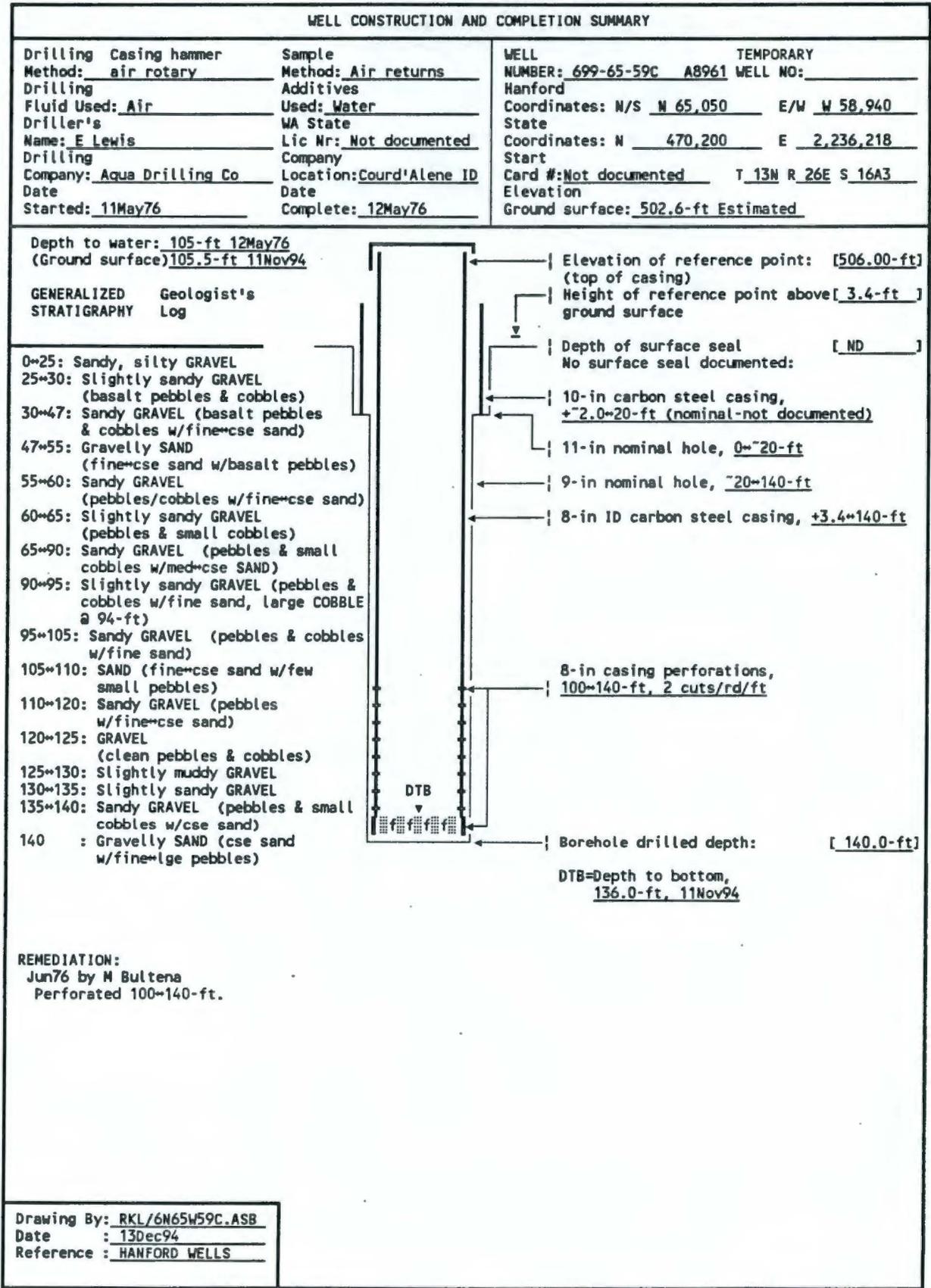
14. Comments: Identify evaluation criteria addressed by number:  
 \_\_\_\_\_  
 \_\_\_\_\_  
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15. Status

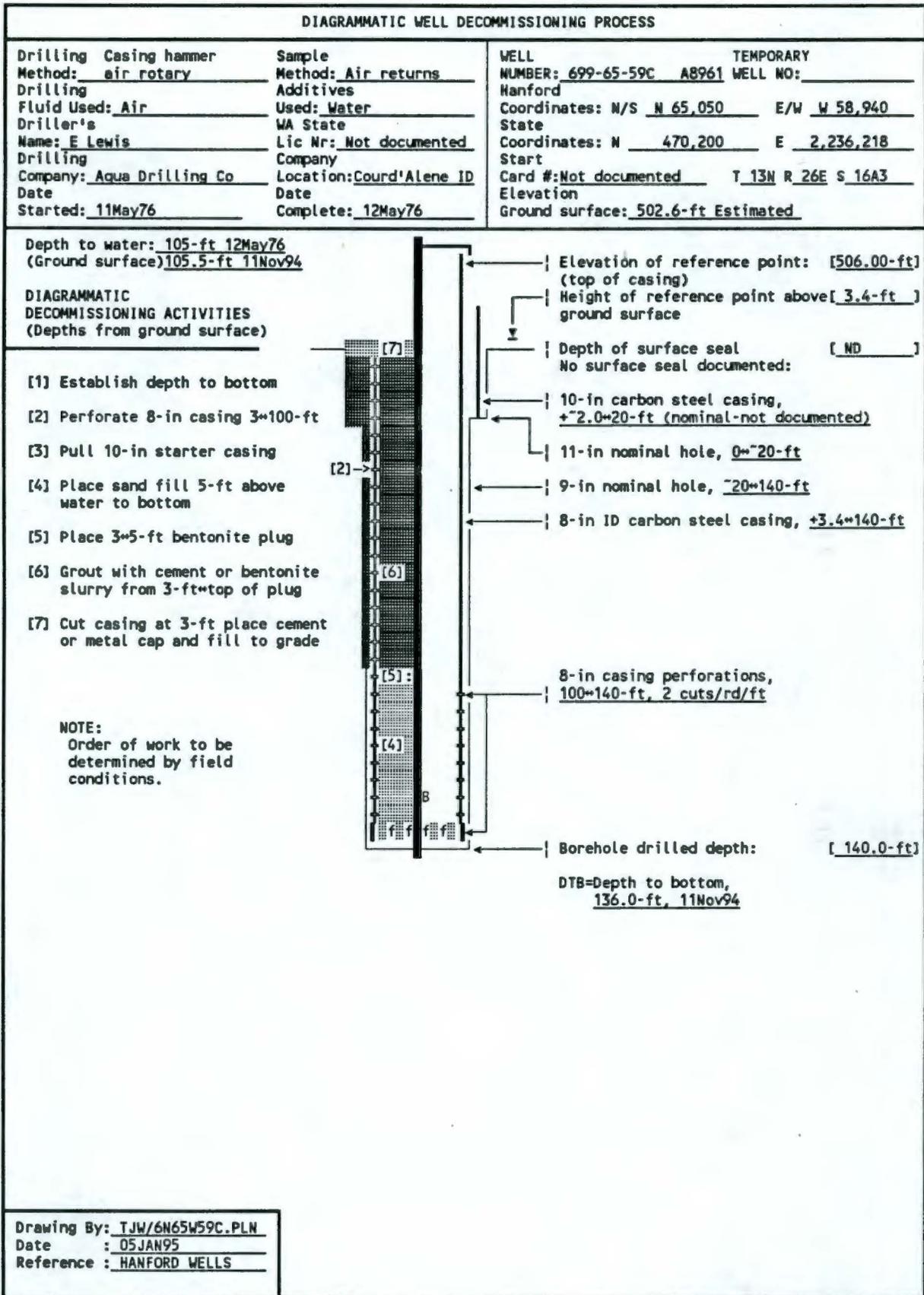
Well is acceptable for intended use	<input type="checkbox"/> <u>No</u>	Well lacks seals
Well is acceptable for intended use if variance is granted	<input type="checkbox"/> <u>NA</u>	Not applicable
Rehabilitation required to continue intended use	<input type="checkbox"/> <u>No</u>	Not applicable
Remediation 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: 01/17/95

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



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



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

<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-70-37</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 sediment</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>Well point with open top</u></p> <p>6. Is design and construction IAW WAC 173-160-500?  <input type="checkbox"/> <u>No</u> ) <u>No 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>Drilled before applicable date of WAC 173-303</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>Capped ,no posts or pad present</u></p> <p>7b. Protective posts, surface pad or cover installed?  <input type="checkbox"/> <u>N/A</u> ) <u>Not applicable</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>	
<b>RCRA/CERCLA MONITORING WELL?</b>	
<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>N/A</u> ) <u>Not documented</u></p>	

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<b>RESOURCE PROTECTION GROUNDWATER WELL STRUCTURE FITNESS FOR USE CHECKLIST</b>	1. Well No. <u>699-70-37</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>N/A</u>	Date: _____	Company: _____
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: 11/11/94 Company: \_\_\_\_\_

Other:  
 \_\_\_\_\_  
 \_\_\_\_\_

14. Comments: Identify evaluation criteria addressed by number:  
 \_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_

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: 01/18/95



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

DIAGRAMMATIC WELL DECOMMISSIONING PROCESS		
<p>Drilling Method: <u>Not documented</u></p> <p>Drilling Fluid Used: <u>Not documented</u></p> <p>Driller's Name: <u>Not documented</u></p> <p>Drilling Company: <u>Not documented</u></p> <p>Date Started: <u>Not documented</u></p>	<p>Sample Method: <u>Not documented</u></p> <p>Additives Used: <u>Not documented</u></p> <p>WA State Lic Nr: <u>Not documented</u></p> <p>Company Location: <u>Not documented</u></p> <p>Date Complete: <u>Jun60</u></p>	<p>WELL NUMBER: <u>699-70-37</u>    <u>A8970</u>    TEMPORARY WELL NO: _____</p> <p>Hanford</p> <p>Coordinates: N/S <u>N 70,243</u>    E/W <u>W 36,740</u></p> <p>State Coordinates: N <u>475,450</u>    E <u>2,258,405</u></p> <p>Start Card #: <u>Not documented</u>    T _____ R _____ S _____</p> <p>Elevation Ground surface: <u>385.0-ft Estimated</u></p>
<p>Depth to water: <u>Not documented</u> (Ground surface)</p> <p><b>DIAGRAMMATIC DECOMMISSIONING ACTIVITIES</b> (Depths from ground surface)</p> <p>[1] Establish depth to bottom</p> <p>[2] Attempt to pull casing</p> <p>[3] Grout with cement or bentonite slurry as casing is pulled</p> <p>[4] Place cement cap at ~3-ft and fill to grade</p>		<p>Elevation of reference point: [386.69-ft] (top of casing)</p> <p>Height of reference point above [1.7-ft] ground surface</p> <p>Depth of surface seal [ND]</p> <p>No surface seal documented:</p> <p>2.0-in ID well point, +1.7~15.0-ft</p> <p>No perforations documented</p> <p>Borehole drilled depth: [15.0-ft]</p> <p>DTB=Depth to bottom, 7.8-ft, 11Nov94</p>
<p><b>NOTE:</b> Order of work to be determined by field conditions.</p>		
<p>Drawing By: <u>TJW/6N70W37.PLN</u></p> <p>Date : <u>11JAN95</u></p> <p>Reference : <u>HANFORD WELLS</u></p>		

## DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	T. J. Wood	Date Jan. 19, 1995
Project Title/Work Order		EDT No. NA
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."		ECN No. 614124

Name	MSIN	Text With All Attach.	Text Only	Attach./Appendix Only	EDT/ECN Only
M. A. Chamness	K6-84	X			
J. R. Duong	N3-05	X			
J. W. Fassett	H6-06	X			
M. J. Furman	S7-55				
M. G. Gardner (5)	N3-06	X			
C. H. Gunion	A5-20				
S. P. Luttrell	K6-96	X			
R. A. Meznarich	S3-27				
A. L. Schatz	N3-05	X			
D. E. Skoglie	N3-05	X			
W. R. Thackaberry	H4-16	X			
R. R. Thompson	H6-32				
T. J. Wood	N3-05	X			
EDMC (2)	H6-08	X			
Central Files (2)	L8-04	X			