AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been divided into sections.

EDMC#: 0076456
SECTION: 2 of 2

DOCUMENT #: 08-AMCP-0121

TITLE: ADMINISTRATIVE DECOMMISSIONING FOR WELLS WITH SURVEYS

699-17-27N
C3794

WELL ATTRIBUTES REPORT

WELL ID	C3794	**NORTHING**	128752.322	**FIELD ORDER NO**	
WELL NAME	699-17-27N	**EASTING**	581799.687	**LAST INSPECTION**	1/1/1801
HOST WELL ID		**ELEVATION**		**CONST DATE**	
GW OPERABLE UNIT	200-PO-1	**DRILL DATE**		**CONST DEPTH**	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☑ ND ☐ MINOR ☐ NONE	SURFACE EROSION	☐ MAJOR ☐ MINOR ☐ NONE

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☑ ND ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	__/__/__
PUMP IN WELL	☐ YES ☐ NO ☑ ND	PUMP IN WELL	☐ YES ☐ NO
PUMP TESTED	☐ YES ☐ NO ☑ ND	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND	NEW PUMP	☐ YES ☐ NO
PUMP TYPE		PUMP TYPE	
PUMP MAKE		PUMP MAKE	
PUMP MODEL		PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	

LAST TUBING INFORMATION		CURRENT TUBING INFORMATION	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL		TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION		TUBING CONNECTION	

LAST MEASUREMENT INFORMATION		CURRENT MEASUREMENT INFORMATION	
DEPTH TO WATER(ft)		DEPTH TO WATER(ft)	
DEPTH TO WATER DATE		DEPTH TO WATER DATE	__/__/__
DEPTH TO BOTTOM(ft)		DEPTH TO BOTTOM(ft)	
DEPTH TO BOTTOM DATE		DEPTH TO BOTTOM DATE	__/__/__
STICK UP(ft)		STICK UP(ft)	
REFERENCE MARK(ft)		REFERENCE MARK(ft)	
REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND	REFERENCE MARK IS TOC	☐ YES ☐ NO

ND* - Not Documented

WELL ATTRIBUTES REPORT

WELL ID	C3794	**NORTHING**	128752.322	**FIELD ORDER NO**	
WELL NAME	699-17-27N	**EASTING**	581799.687	**LAST INSPECTION**	1/1/1801
HOST WELL ID		**ELEVATION**		**CONST DATE**	
GW OPERABLE UNIT	200-PO-1	**DRILL DATE**		**CONST DEPTH**	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFI
C3794	699-17-27N	BHI	NAD83(91)	09/24/2001	GPS	128752.322	581799.687	m	P

699-17-27N (W-18)
Location: ~N17226, W26621 12/27-33811
Surface Elevation: 527.4
Hollow stem auger, drilled by Carman Water Wells for NESCO, 1981, foundation test boring

Material (38)	Thickness	Depth
Loose, dark-yellowish-brown to olive-gray, silty fine sand . .	8	8
Medium dense, varicolored to olive-black, silty fine & clean medium sands	7	15
Medium dense to dense, varicolored to olive-black, clean, fine to coarse sand w/scattered gravel	23	38
Very dense, varicolored to olive-gray, silty fine to medium sand	10	48
Very dense, varicolored to olive-black, clean, fine to medium sand w/scattered gravel	34	82
Very dense, varicolored to olive-black, slightly silty gravelly fine to coarse sand . Very dense, olive-gray, silty fine to medium sand . . . . . Very dense, varicolored to olive-black, slightly silty gravelly fine to coarse sand .	17	99

SEE SURVEY REPORT - WELL DECOMM.

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID 63794
WELL NAME 699-17-27N
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING 128752.320
EASTING 581799.687
ELEVATION

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION		
WELL PAD	☐ YES	☐ NO	☐ ND*	WELL PAD	☐ YES	☐ NO
BRASS SURVEY MARKER	☐ YES	☐ NO	☐ ND*	BRASS SURVEY MARKER	☐ YES	☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO	☐ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO	☐ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO
WELL LABELED WITH WELL ID	☐ YES	☐ NO	☐ ND*	WELL LABELED WITH WELL ID	☐ YES	☐ NO
WELL LABELED WITH WELL NAME	☐ YES	☐ NO	☐ ND*	WELL LABELED WITH WELL NAME	☐ YES	☐ NO
PROTECTIVE POSTS	☐ YES	☐ NO	☐ ND*	PROTECTIVE POSTS	☐ YES	☐ NO
REMOVABLE POST IN PLACE	☐ YES	☐ NO	☐ ND*	REMOVABLE POST IN PLACE	☐ YES	☐ NO
WELL LOCK	☐ YES	☐ NO	☐ ND*	WELL LOCK	☐ YES	☐ NO
WELL DAMAGED	☐ YES	☐ NO	☐ ND*	WELL DAMAGED	☐ YES	☐ NO
WELL IS DRY	☐ YES	☐ NO	☐ ND*	WELL IS DRY	☐ YES	☐ NO
PARTED CASING	☐ YES	☐ NO	☐ ND*	PARTED CASING	☐ YES	☐ NO
BENTONITE IN WELL	☐ YES	☐ NO	☐ ND*	BENTONITE IN WELL	☐ YES	☐ NO
WELL SANDED IN	☐ YES	☐ NO	☐ ND*	WELL SANDED IN	☐ YES	☐ NO
COLLAPSED CASING	☐ YES	☐ NO	☐ ND*	COLLAPSED CASING	☐ YES	☐ NO
EQUIPMENT IN WELL	☐ YES	☐ NO	☐ ND*	EQUIPMENT IN WELL	☐ YES	☐ NO
DEBRIS IN WELL	☐ YES	☐ NO	☐ ND*	DEBRIS IN WELL	☐ YES	☐ NO

LAST PUMP INFORMATION			CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☐ ND*		PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES	☐ NO ☐ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES	☐ NO ☐ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY			ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED			DATE ACTIVITY PERFORMED	
PUMP TYPE			PUMP TYPE	
PUMP MAKE			PUMP MAKE	
PUMP MODEL			PUMP MODEL	
PUMP INTAKE DEPTH (ft)			PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)			TUBING SIZE (in)	
TUBING MATERIAL			TUBING MATERIAL	
TUBING LENGTH (ft)			TUBING LENGTH (ft)	
TUBING CONNECTION			TUBING CONNECTION	

ND* - Not Documented
BKI-EE-231 (02/20/02)

1/24/2003

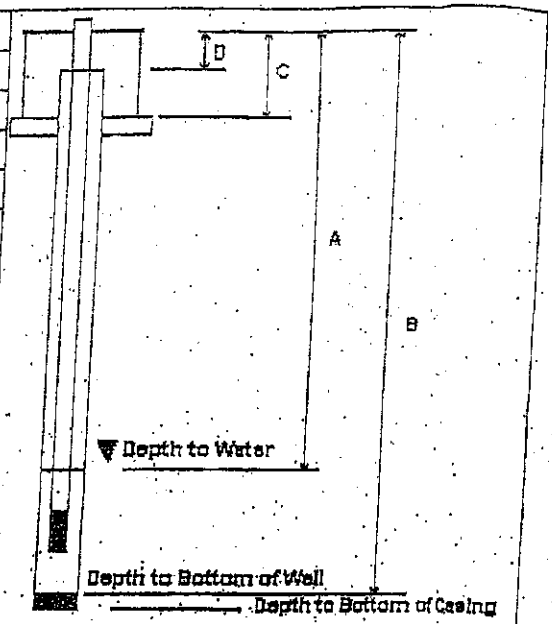
SEE SURVEY REPORT - WELL DECOMM.

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	
WELL ID	C3794	DRILL DATE		NORTHING	128752.320
WELL NAME	699-17-27N	CONST DATE		EASTING	581799.687
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☐ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented
BHI-EE-231 (01/20/02)

1/24/2003

SURVEY DATA REPORT

Request No. 072-0177				
Project No. N/A	Title: Survey Decommissiong Wells C3794/699-17-27N			File No. 6T11-R27
Job No. 65400811.122540	Prepared By Tim Johnson	Date 3/13/2007	Reviewer Larry Henke	Page 1 of 2

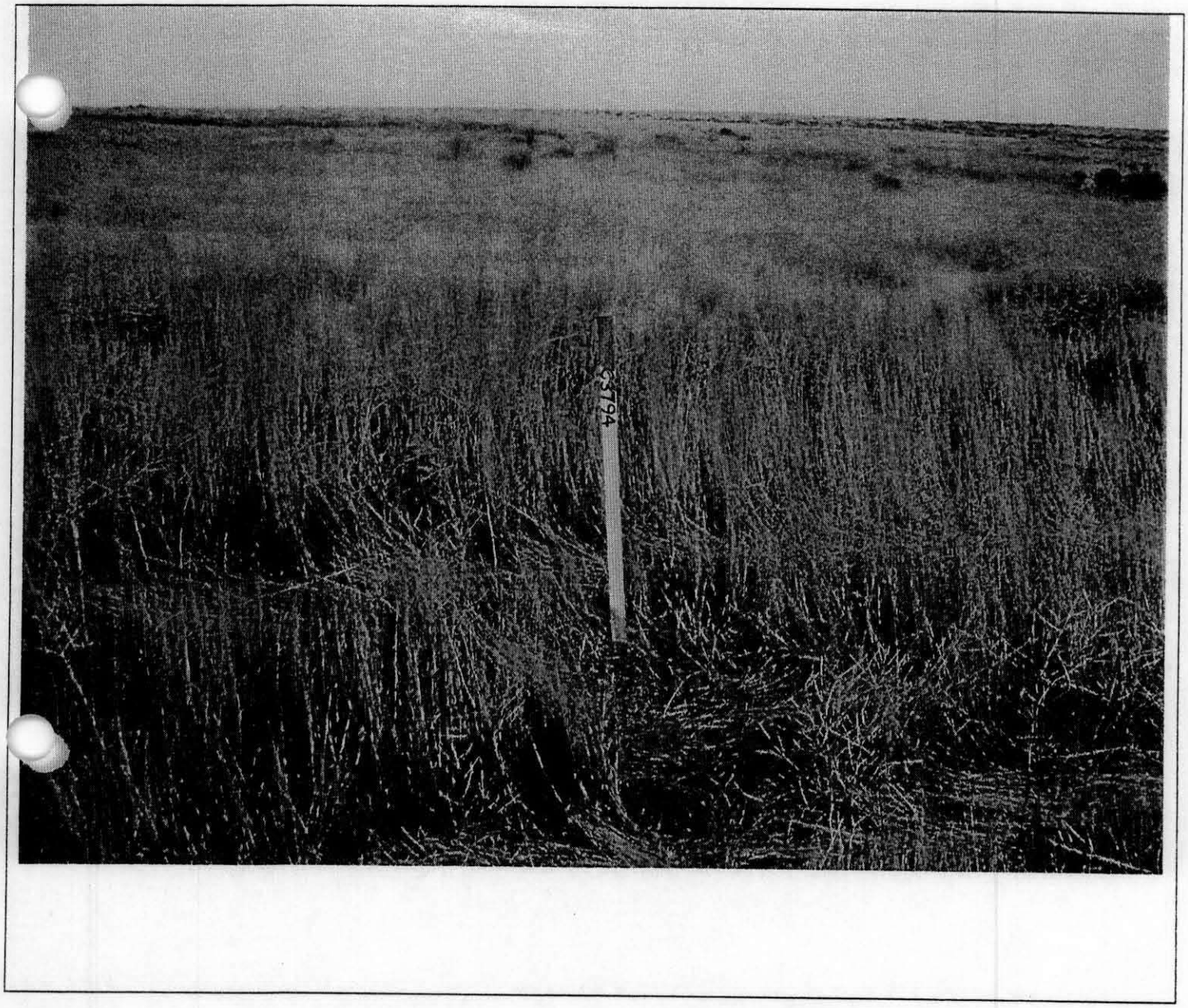
DESCRIPTION OF WORK	DISTRIBUTION	SDR	PLOT	DWG
Survey well location for C3794. If found, fill out WAR Report. If not found, set hub and lath. Take photo.	Survey File	OR		
	B. Howard	1		
Coordinate System: US State Plane 1983	C. Wright	1		
Zone: Washington South 4602	G. Kelty	1		
Project Datum: NAD 1983 (Conus)	E. Rafuse	1		
Vertical Datum: NAVD 1988				
Geoid Model: Geoid03				

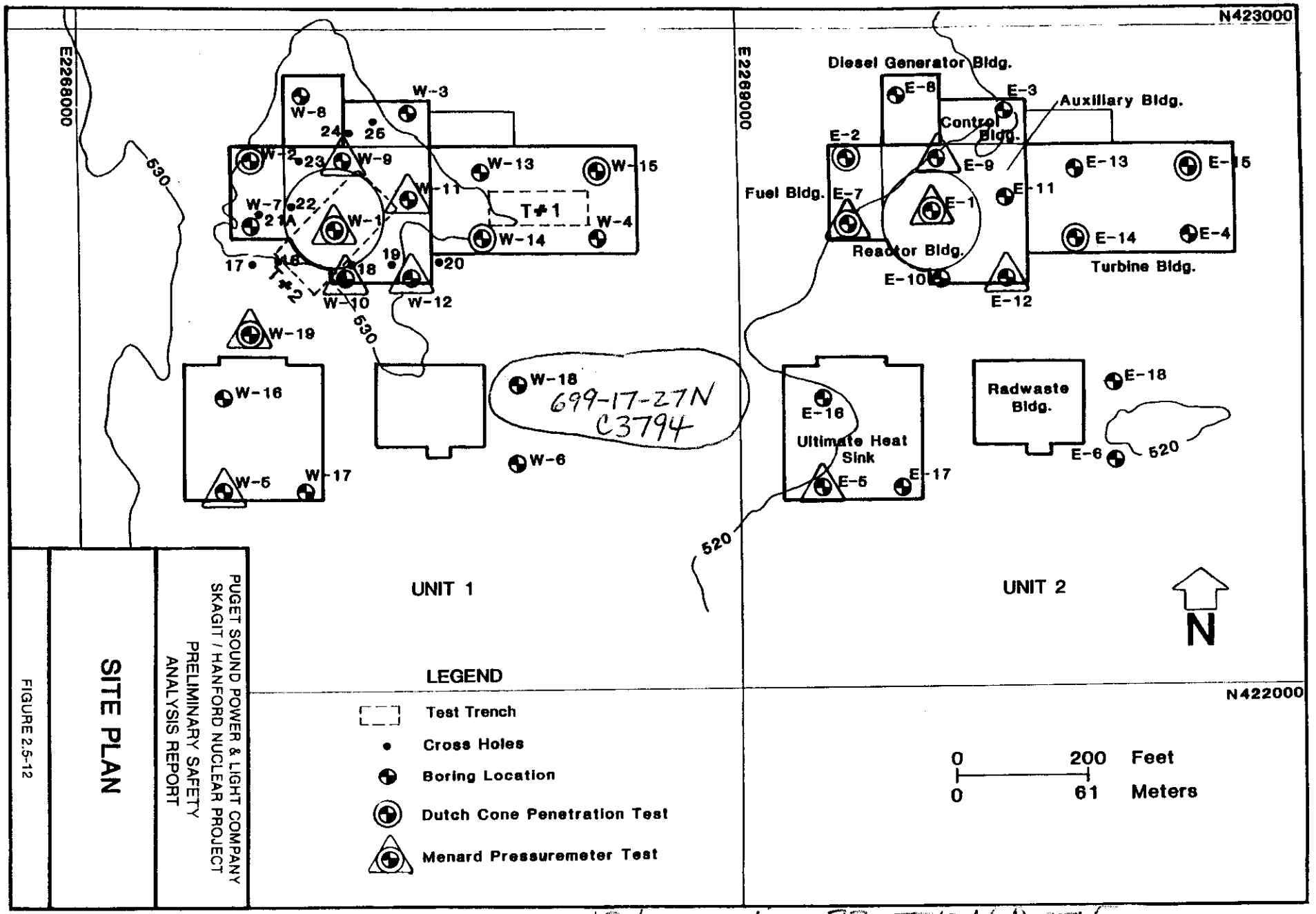
SURVEY RESULTS AND COMMENTS

Well ID# C3794 was not found at listed coordinates: N128752.320 E581799.687
Set hub and lath. Took Photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

99-17-27N, C3794, WELL DECOMM. YEAR AGO Facility, Looking NE 05/0





SITE PLAN

PUGET SOUND POWER & LIGHT COMPANY
SKAGIT / HANFORD NUCLEAR PROJECT
PRELIMINARY SAFETY ANALYSIS REPORT

FIGURE 2.5-12

All within NE¼ Section 33 T12N R27E

WELL ATTRIBUTES REPORT

LD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A8437			NORTHING	
WELL NAME	699-20-E19	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION		
WELL PAD	YES	NO	ND*	WELL PAD	YES	NO
BRASS SURVEY MARKER	YES	NO	ND*	BRASS SURVEY MARKER	YES	NO
MARKER STAMPED WITH SURVEY DATA	YES	NO	ND*	MARKER STAMPED WITH SURVEY DATA	YES	NO
MARKER STAMPED WITH WELL ID DATA	YES	NO	ND*	MARKER STAMPED WITH WELL ID DATA	YES	NO
WELL LABELED WITH WELL ID	YES	NO	ND*	WELL LABELED WITH WELL ID	YES	NO
WELL LABELED WITH WELL NAME	YES	NO	ND*	WELL LABELED WITH WELL NAME	YES	NO
PROTECTIVE POSTS	YES	NO	ND*	PROTECTIVE POSTS	YES	NO
REMOVABLE POST IN PLACE	YES	NO	ND*	REMOVABLE POST IN PLACE	YES	NO
WELL LOCK	YES	NO	ND*	WELL LOCK	YES	NO
WELL DAMAGED	YES	NO	ND*	WELL DAMAGED	YES	NO
WELL IS DRY	YES	NO	ND*	WELL IS DRY	YES	NO
PARTED CASING	YES	NO	ND*	PARTED CASING	YES	NO
BENTONITE IN WELL	YES	NO	ND*	BENTONITE IN WELL	YES	NO
WELL SANDED IN	YES	NO	ND*	WELL SANDED IN	YES	NO
LAPSED CASING	YES	NO	ND*	COLLAPSED CASING	YES	NO
EQUIPMENT IN WELL	YES	NO	ND*	EQUIPMENT IN WELL	YES	NO
DEBRIS IN WELL	YES	NO	ND*	DEBRIS IN WELL	YES	NO
SURFACE EROSION	MAJOR MINOR	NONE	ND*	SURFACE EROSION	MAJOR MINOR	NONE

LAST PUMP INFORMATION				CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	INSTALLED REPLACED REMOVED		ND*	PUMP ACTIVITY PERFORMED	INSTALLED REPLACED REMOVED	
PUMP TESTED	YES	NO	ND*	PUMP TESTED	YES	NO
NEW PUMP	YES	NO	ND*	NEW PUMP	YES	NO
ACTIVITY PEFORMED BY	ND*			ACTIVITY PEFORMED BY		
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED		
PUMP TYPE	ND*			PUMP TYPE		
PUMP MAKE	ND*			PUMP MAKE		
PUMP MODEL	ND*			PUMP MODEL		
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)		
TUBING SIZE (in)				TUBING SIZE (in)		
TUBING MATERIAL	ND*			TUBING MATERIAL		
BING LENGTH (ft)				TUBING LENGTH (ft)		
BING CONNECTION	ND*			TUBING CONNECTION		

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-19-51 VW			636.15 6.0 6/69	195.0					
699-19-58 GW S		18953.00 -58260.00	573.05 8.0 1/59	300.0 195.0 155.0	P	8.0	149.0	194.0	PLUG AT 195 FT.
699-19-58P AB		18953.00 -58260.00	573.31 1.5 8/63	269.0 269.0 154.0	P	1.5	249.0	269.0	REMOVED
699-19-88 GW S		19185.00 -87736.00	644.45 8.0 11/57	388.0 170.0 134.0	P	8.0	70.0	170.0	PLUG AT 170 FT. 699-20-87
699-20-E19 GW									RINGOLD RANCH WELL?
699-20-E12 GW B							35.0 80.0 20.0	150.0 200.0 344.0	PIEZOMETERS
699-20-E12O GW							80.0 35.0 80.0 20.0	100.0 150.0 200.0 344.0	
699-20-E12P GW B			11/61		P P	8.0 8.0	20.0 65.0 180.0 220.0	345.0 150.0 200.0 344.0	
699-20-E12Q GW	20304.00 12017.00		437.45 1.5 11/61	357.0 253.0	P P P P	1.5 8.0 8.0 8.0	228.0 65.0 180.0 220.0	253.0 150.0 200.0 344.0	
699-20-E12R GW	20304.00 12017.00		437.45 1.5 9/62	357.0 198.0	P P P P	1.5 8.0 8.0 8.0	178.0 65.0 180.0 220.0	198.0 150.0 200.0 344.0	
699-20-E12S GW	20304.00 12017.00		437.45 1.5 9/62	357.0 138.0	P P P P	1.5 8.0 8.0 8.0	113.0 65.0 180.0 220.0	138.0 150.0 200.0 344.0	

Hanford Wells
PNL-8800 UC-903
M. A. Chamness & J. K. Merz
August 1993
Prepared for U. S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A8437	699-20-E19	-- No information available --								

699-22-70O
A9618

WELL ATTRIBUTES REPORT

WELL ID	A9618	**NORTHING**	130165.727	**FIELD ORDER NO**	
WELL NAME	699-22-70O	**EASTING**	568798.297	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A8445	**ELEVATION**	188.586	**CONST DATE**	4/30/1965
GW OPERABLE UNIT	200-ZP-1	**DRILL DATE**	11/29/1962	**CONST DEPTH**	200
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☑ ND ☐ MINOR ☐ NONE	SURFACE EROSION	☐ MAJOR ☐ MINOR ☐ NONE
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☑ ND ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	__/__/____
PUMP IN WELL	☐ YES ☐ NO ☑ ND	PUMP IN WELL	☐ YES ☐ NO
PUMP TESTED	☐ YES ☐ NO ☑ ND	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND	NEW PUMP	☐ YES ☐ NO
PUMP TYPE		PUMP TYPE	
PUMP MAKE		PUMP MAKE	
PUMP MODEL		PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
LAST TUBING INFORMATION		**CURRENT TUBING INFORMATION**	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL		TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION		TUBING CONNECTION	
LAST MEASUREMENT INFORMATION		**CURRENT MEASUREMENT INFORMATION**	
DEPTH TO WATER(ft)		DEPTH TO WATER(ft)	
DEPTH TO WATER DATE		DEPTH TO WATER DATE	__/__/____
DEPTH TO BOTTOM(ft)	200	DEPTH TO BOTTOM(ft)	
DEPTH TO BOTTOM DATE		DEPTH TO BOTTOM DATE	__/__/____
STICK UP(ft)		STICK UP(ft)	
REFERENCE MARK(ft)		REFERENCE MARK(ft)	
REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND	REFERENCE MARK IS TOC	☐ YES ☐ NO

WELL ATTRIBUTES REPORT

WELL ID	A9618	**NORTHING**	130165.727	**FIELD ORDER NO**	
WELL NAME	699-22-70O	**EASTING**	568798.297	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A8445	**ELEVATION**	188.586	**CONST DATE**	4/30/1965
GW OPERABLE UNIT	200-ZP-1	**DRILL DATE**	11/29/1962	**CONST DEPTH**	200
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

ND* - Not Documented

WELL ATTRIBUTES REPORT

WELL ID	A9618	**NORTHING**	130165.727	**FIELD ORDER NO**	
WELL NAME	699-22-700	**EASTING**	568798.297	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A8445	**ELEVATION**	188.586	**CONST DATE**	4/30/1965
GW OPERABLE UNIT	200-ZP-1	**DRILL DATE**	11/29/1962	**CONST DEPTH**	200
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

PIEZOMETER O:

PIEZOMETER INFORMATION		
PIEZOMETER IS PRESENT	YES	NO
PIEZOMETER IS LABELED	YES	NO

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-22-23		22440.00	513.37	720.0					
GW		-22692.00	6.0	220.0					S-9
			3/81	113.0					
699-22-55		21994.00	624.20	160.0					
VW		-55001.00	6.0						
			6/69						
699-22-70		19810.00	614.96	373.0					PIEZOMETERS INSTALLED 3/77;
GW		-69259.00	8.0	230.0					PLUG AT 230'; UNCASED 127-373'
S			11/62						
699-22-70O		19810.00	615.25	200.0	P	1.5	180.0	200.0	REMOVED
AB		-69259.00	1.5	200.0					
			4/65						
699-22-70P							315.0	320.0	60 SLOT SCREEN
GW									
699-22-70Q							260.0	265.0	60 SLOT SCREEN
GW									
699-22-82									MICROBIOLOGY SAMPLING BOREHOLE
AB									
699-23-E2		23200.00	473.50	125.0					
SW		1800.00	12/74						1C-SP-24
699-23-33		23408.00	553.19	552.0					
GW		-32754.00	6.0	233.0					S-4
			3/81	138.0					
699-23-34		23161.00	532.86	139.0					SCREEN 121-136 FT.
GW		-34191.00	6.0	136.0					SW-4
H			1/87						
699-24-1P		23576.00	474.55	537.0	P	1.5	446.0	456.0	INDIVIDUALLY DRILLED PIEZOMETER
GW		-1355.00	1.5	456.0					
A			2/66						
699-24-1Q		23620.00	475.29	355.0	P	1.5	327.0	337.0	INDIVIDUALLY DRILLED PIEZOMETER
GW		-1356.00	1.5	355.0					
B			2/66	105.0					

Hanford Wells
PNL-8800 UC-903
M. A. Chamness & J. K. Merz
August 1993
Prepared for U. S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFI
A9618	699-22-70O	USACE(JECA)	NAD83(91)	05/08/1993	UNKNOWN	130165.727	568798.297	m	

WELL ATTRIBUTES REPORT

FIELD ORDER NO A8445
WELL ID 699-22-70
WELL NAME
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING
EASTING
ELEVATION

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☐ ND*	WELL PAD	☐ YES ☑ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☐ ND*	BRASS SURVEY MARKER	☐ YES ☑ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☑ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☑ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL ID	☐ YES ☑ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL NAME	☑ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☐ ND*	PROTECTIVE POSTS	☐ YES ☑ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☐ ND*	REMOVABLE POST IN PLACE	☐ YES ☑ NO
WELL LOCK	☐ YES ☐ NO ☐ ND*	WELL LOCK	☑ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☐ ND*	WELL DAMAGED	☐ YES ☑ NO
WELL IS DRY	☐ YES ☐ NO ☐ ND*	WELL IS DRY	☐ YES ☑ NO
RTED CASING	☐ YES ☐ NO ☐ ND*	PARTED CASING	☐ YES ☑ NO
NTONITE IN WELL	☐ YES ☐ NO ☐ ND*	BENTONITE IN WELL	☐ YES ☑ NO
ELL SANDED IN	☐ YES ☐ NO ☐ ND*	WELL SANDED IN	☐ YES ☑ NO
COLLAPSED CASING	☐ YES ☐ NO ☐ ND*	COLLAPSED CASING	☐ YES ☑ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☐ ND*	EQUIPMENT IN WELL	☐ YES ☑ NO
DEBRIS IN WELL	☐ YES ☐ NO ☐ ND*	DEBRIS IN WELL	☐ YES ☑ NO
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☐ ND*	PUMP ACTIVITY PERFORMED	☑ INSTALLED ☐ REPLACED ☐ REMOVED Pump in Well
PUMP TESTED	☐ YES ☐ NO ☐ ND*	PUMP TESTED	☐ YES ☑ NO
NEW PUMP	☐ YES ☐ NO ☐ ND*	NEW PUMP	☐ YES ☑ NO
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	TL Hottell
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	06/05/06
PUMP TYPE		PUMP TYPE	Elect Subm
PUMP MAKE		PUMP MAKE	N/A
PUMP MODEL		PUMP MODEL	Peabody Barnes
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	203.25
TUBING SIZE (In)		TUBING SIZE (In)	1½ ABS
TUBING MATERIAL		TUBING MATERIAL	N/A
NG LENGTH (ft)		TUBING LENGTH (ft)	201.
G CONNECTION		TUBING CONNECTION	N/A

ND* - Not Documented
BHI-EE-231 (02/20/02)

1/24/2003

A8445 Piezometer removed

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID A8445
WELL NAME 699-22-70
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

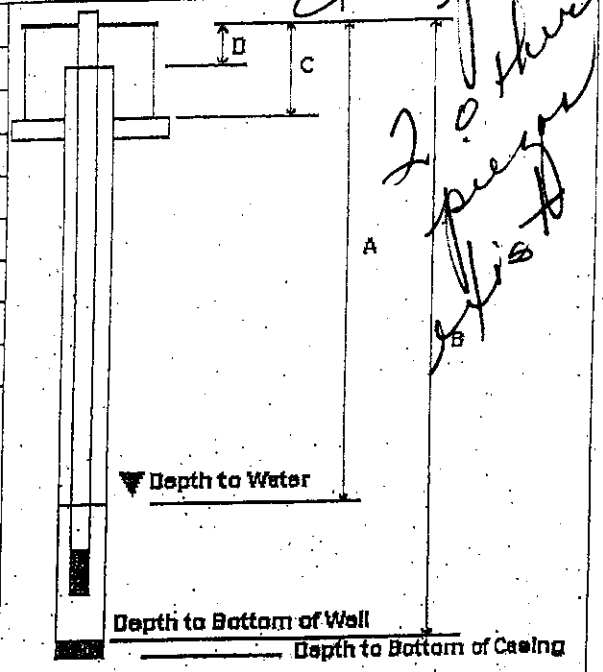
LAST INSPECTION
NORTHING
EASTING
ELEVATION

Host plan

2 piezometers in it

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		189.29
	DEPTH TO WATER DATE		06/05/06
B	DEPTH TO BOTTOM(ft)		225.40
	DEPTH TO BOTTOM DATE		06/05/06
C	STICK UP(ft)		2.13
D	REFERENCE MARK(ft)		T.O.C
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☐ ND*	☒ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES Well has 2 piezometer in it. Well is located off Army Loop Rd.

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented
BHI-EE-231 (02/20/02)

1/24/2003

699-22-70
A8445

Input

RESOURCE PROTECTION WELL
STRUCTURE FIELD INSPECTION REPORT

Well ID #8445

699-22-70 1/30/97

Well Name 699-22-70 Date 01/30/97

Inspector (print) M. D. GERLACH

Signature

WELL IDENTIFICATION ID MARKINGS

Is the well labeled?	☐ Yes	☒ No
If yes, should the casing be relabeled?	☐ Yes	☐ No
Does the well have a brass marker?	☐ Yes	☒ No
If yes, is the brass marker stamped with well ID?	☐ Yes	☐ No
Does the casing need to be painted/repainted thus requiring relabeling?	☐ Yes	☒ No

Irregularities

WELL SITE IDENTIFICATION

Does well have a barber pole?	☒ Yes	☐ No	If no, is one needed?	☐ Yes ☐ No
Does well have an identification sign posted at entrance to access route?	☒ Yes	☐ No	If no, is one needed?	☐ Yes ☐ No
Is well located in or around a particular facility? (e.g., 216-A-10 crib, B-Y Tank Farms, S-Pond, etc.)	☐ Yes	☒ No	If yes, identify facility	
Is well located in a radiation zone?	☐ Yes	☒ No	If yes, describe zone type	

Irregular/Damage (describe)

INSPECT WELL SURFACE PROTECTION MEASURES

WELL CAPS

Is the well capped?	☒ Yes	☐ No
Is the cap able to be locked?	☒ Yes	☐ No
Is the cap locked?	☒ Yes	☐ No

Describe existing problems with well cap, if any, or check none: ☒ None

CONCRETE PAD

☒ None ☐ 4 ft x 4 ft ☐ 18 in. x 18 in. ☐ 2 ft round Is it damaged? ☐ Yes ☐ No

Irregular/Damage (describe)

BARRIER POSTS

Four posts, min. 3 in. ID, 1 removable? ☐ Yes ☒ No

If no, describe barrier posts: How many posts? Diameter of posts?

Is there a removable post? ☐ Yes ☐ No

Irregular/Damage (describe)

CASING INFORMATION

CASING DIAMETERS: OUTER (SURFACE), INNER, AND OTHER - RECORD IN INCHES

Indicate diameter of casing. Describe type of casing (e.g., carbon steel, stainless steel, PVC, etc.)

Outer casing: OD/ID: 8 5/8" x 8" Type C.S.

Inner casing: OD/ID: _____ Type _____

Other casing: OD/ID: _____ Type _____

Other casing: OD/ID: _____ Type _____

Describe condition of top edge of the highest most casing:

☒ Jagged ☒ Uneven ☐ Fairly Level ☐ Beveled

Other (describe) _____

Describe protective casing damage, if any (e.g., hole in casing, bent, etc.), or check none: ☐ None

1 - 1" HOLE IN CASING

Distance from: (check one)

☒ Ground Surface ☐ Cement Pad To top edge of highest most casing 2.10'

SAMPLING EQUIPMENT INSTALLATION

Describe type of pump system:

☐ Hydrostar ☒ Submersible ☐ Bladder ☐ None

Describe type of pump system support:

☐ Hydrostar Plate ☐ Well Seal ☒ J-Hook ☐ Steel Cable ☐ Pitless Adapter

Describe type of pump system:

☐ 3/4 in. Stainless Steel ☒ 1 1/2 in. ABS ☐ 1 in. PVC ☐ 1 1/2 in. galvanized

Irregular/Damage (describe) _____

WELL SITE SAFETY

Describe debris present at well site, if any, or check none: ☒ None

Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none: ☒ None

SURVEY INFORMATION

Describe survey mark location:

☒ Top edge of highest most casing ☐ Brass Marker ☐ Both ☐ None

Is stamp clearly visible? ☒ Yes ☐ No

Other (describe) _____

DEPTH MEASUREMENTS

Depth to Water: DRY Depth to Bottom: 183.00'

Comments: _____

COMMENTS

WELL HAS 2 - 2" STEEL PIEZOS

2" DTW - 184.90' DTB - 326.30'

2" DTW - 184.82' DTB - 254.00'

A-6000-499R (06/95)

Input by Sunset Bath 2/18/93

RESOURCE PROTECTION WELL
STRUCTURE FIELD INSPECTION REPORT

699-22-70 2/17/93

MMB-5

Well Number 699-22-70 Date 2/17/93

Inspector (print) MM Baird-Simmons

Signature MM Baird-Simmons

WELL IDENTIFICATION ID MARKINGS

Is the well labeled?	☒ Yes	☐ No
If yes, should the casing be relabeled?	☒ Yes	☐ No
Does the well have a brass marker?	☐ Yes	☒ No
If yes, is the brass marker stamped with well ID?	☐ Yes	☐ No
Does the casing need to be painted/repainted thus requiring relabeling?	☒ Yes	☐ No

Irregularities _____

WELL SITE IDENTIFICATION

Does well have a barber pole?	☒ Yes	☐ No	If no, is one needed?	☐ Yes	☐ No
Does well have an identification sign posted at entrance to access route?	☒ Yes	☐ No	If no, is one needed?	☐ Yes	☐ No
Is well located in or around a particular facility? (e.g., 216-A-10 crib, B-Y Tank Farms, B-Pond, etc.)	☐ Yes	☒ No	If yes, identify facility		
Is well located in a radiation zone?	☐ Yes	☒ No	If yes, describe zone type		

Irregular/Damage (describe) _____

INSPECT WELL SURFACE PROTECTION MEASURES

WELL CAPS

Is the well capped?	☒ Yes	☐ No
Is the cap able to be locked?	☒ Yes	☐ No
Is the cap locked?	☒ Yes	☐ No

Describe existing problems with well cap, if any, or check none: ☒ None

CONCRETE PAD

☒ None ☐ 4 ft x 4 ft ☐ 18 in. x 18 in. ☐ 2 ft round Is it damaged? ☐ Yes ☐ No

Irregular/Damage (describe) _____

BARRIER POSTS

Four posts, min. 3 in. ID, 1 removable? ☐ Yes ☒ No

If no, describe barrier posts: None How many posts? _____ Diameter of posts? _____

Is there a removable post? ☐ Yes ☐ No

Irregular/Damage (describe) _____

CASING INFORMATION

CASING DIAMETERS: OUTER (SURFACE), INNER, AND OTHER - RECORD IN INCHES

Indicate diameter of casing. Describe type of casing (e.g., carbon steel, stainless steel, PVC, etc.)

Outer casing: OD/ID: 8" Type CS

Inner casing: OD/ID: _____ Type _____

Other casing: OD/ID: _____ Type _____

Other casing: OD/ID: _____ Type _____

Describe condition of top edge of the highest most casing:

☐ Jagged ☐ Uneven ☒ Fairly Level ☐ Beveled

Other (describe) _____

Describe protective casing damage, if any (e.g., hole in casing, bent, etc.), or check none: ☐ None

hole for J. hook

Distance from: (check one)

☒ Ground Surface ☐ Cement Pad To top edge of highest most casing 2.05

SAMPLING EQUIPMENT INSTALLATION

Describe type of pump system:

☐ Hydrostar ☒ Submersible ☐ Bladder ☐ None

Describe type of pump system support:

☐ Hydrostar Plate ☐ Well Seal ☒ J-Hook ☐ Steel Cable ☐ Pitless Adapter

Describe type of pump system:

☐ 3/4 in. Stainless Steel ☒ 1 1/2 in. ABS ☐ 1 in. PVC ☐ 1 1/2 in. galvanized

Irregular/Damage (describe) _____

WELL SITE SAFETY

Describe debris present at well site, if any, or check none: ☐ None

bricks

Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none: ☒ None

SURVEY INFORMATION

Describe survey mark location:

☒ Top edge of highest most casing ☐ Brass Marker ☐ Both ☐ None

Is stamp clearly visible? ☒ Yes ☐ No

Other (describe) West side of casing

DEPTH MEASUREMENTS

Depth to Water: 180.29 Depth to Bottom: ~~182.15~~ pump 5 Estimate stuck no measurement

Comments: _____

COMMENTS

? 182.15 Intake

Piezo P DTW 185.24 DTB 319.60

Q DTW 185.24 DTB 258.80

A-6000-493R (10/92)

Well ID: A8445

WELL SERVICES REQUEST
RESOURCE PROTECTION WELL SERVICES

COMPLETED BY NOTIFYING ORGANIZATION

Well Name	Date Identified	Identified By (Printed Name and Signature)	No.
6-22-70	6-14-96	~~Darrell~~ DGH Darrell Newcomer/PNL	NA

DESCRIPTION OF/REASON FOR WELL SERVICES REQUEST

Item 1: E TAPE STUCK IN WELL (TAPE Appears to be stuck on piezos. Not pump pipe. Stuck approx. 27' down.)

Item 2: NA

Item 3:

Above item(s) prevent sample collection: 1. Yes ☐ No ☒

If yes, sample collection required by: NA (Latest Date) 2. Yes ☐ No ☐ 3. Yes ☐ No ☐

Notification By: D.E. Hollingsworth

Title/Organization: ENG TECH.

Signature/Date: D.E. Hollingsworth 6/12/96

FORWARD TO: WELL SERVICES, WHC

COMPLETED BY WELL SERVICES

Notification Received by - Signature/Date: DJ. Underwood 6/19/96

WSR No.: 96-233

Planning Report No.(s): ST

Assigned Priority Levels

Item 1:	1 ☒	2 ☐	3 ☐
~~Item 2:~~	1 ☐	2 ☐	3 ☐
~~Item 3:~~	1 ☐	2 ☐	3 ☐

WELL SERVICES PERFORMED

Item 1: Was able to remove all of the E TAPE from well. Tape was badly damaged, possibly during removal.

NA

Printed Name/Signature/Date: D.E. Hollingsworth/D.E. Hollingsworth 6/25/96

Item 2:

NA

Printed Name/Signature/Date:

Item 3:

Printed Name/Signature/Date:

Closed Out By: S.H. Worley / S.H. Worley / 6-25-96

Printed Name/Signature/Date

FOLLOWING CLOSURE OF ALL ITEMS, FORWARD COMPLETED COPY TO NOTIFYING ORGANIZATION.

DISTRIBUTION: White-Field File Custodian Yellow-Group Files Pink-Returned to Notifying Organization
Goldenrod-Retained by Notifying Organization

BC-6000-316 (02/95)

699-40-11C
A8622

WELL ATTRIBUTES REPORT

ELD ORDER NO				**LAST INSPECTION**	1/1/1801
ELL ID	**A8622**			**NORTHING**	
ELL NAME	**699-40-11C**	**CONST DATE**		**EASTING**	
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	

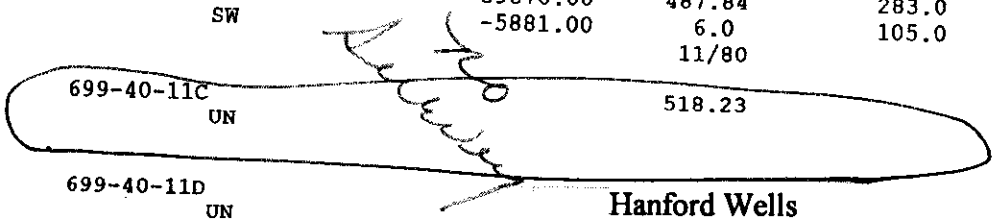
LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION		
WELL PAD	☐ YES	☐ NO	☑ ND*	WELL PAD	☐ YES	☐ NO
BRASS SURVEY MARKER	☐ YES	☐ NO	☑ ND*	BRASS SURVEY MARKER	☐ YES	☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO	☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO	☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO
WELL LABELED WITH WELL ID	☐ YES	☐ NO	☑ ND*	WELL LABELED WITH WELL ID	☐ YES	☐ NO
WELL LABELED WITH WELL NAME	☐ YES	☐ NO	☑ ND*	WELL LABELED WITH WELL NAME	☐ YES	☐ NO
PROTECTIVE POSTS	☐ YES	☐ NO	☑ ND*	PROTECTIVE POSTS	☐ YES	☐ NO
REMOVABLE POST IN PLACE	☐ YES	☐ NO	☑ ND*	REMOVABLE POST IN PLACE	☐ YES	☐ NO
WELL LOCK	☐ YES	☐ NO	☑ ND*	WELL LOCK	☐ YES	☐ NO
WELL DAMAGED	☐ YES	☐ NO	☑ ND*	WELL DAMAGED	☐ YES	☐ NO
WELL IS DRY	☐ YES	☐ NO	☑ ND*	WELL IS DRY	☐ YES	☐ NO
PARTED CASING	☐ YES	☐ NO	☑ ND*	PARTED CASING	☐ YES	☐ NO
BENTONITE IN WELL	☐ YES	☐ NO	☑ ND*	BENTONITE IN WELL	☐ YES	☐ NO
'WELL SANDED IN	☐ YES	☐ NO	☑ ND*	WELL SANDED IN	☐ YES	☐ NO
LAPSED CASING	☐ YES	☐ NO	☑ ND*	COLLAPSED CASING	☐ YES	☐ NO
JIPMENT IN WELL	☐ YES	☐ NO	☑ ND*	EQUIPMENT IN WELL	☐ YES	☐ NO
DEBRIS IN WELL	☐ YES	☐ NO	☑ ND*	DEBRIS IN WELL	☐ YES	☐ NO
SURFACE EROSION	☐ MAJOR	☐ NONE		SURFACE EROSION	☐ MAJOR	☐ NONE
	☐ MINOR	☑ ND*			☐ MINOR	

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☑ ND* ☐ REMOVED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
'BING LENGTH (ft)		TUBING LENGTH (ft)	
ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-39-84G AB									PREVIOUS NAME FH-1, 699-39-84C
699-39-84H AB			20.0	70.0					BWIP WELL
699-39-103 VW		39344.00 -103063.00	890.05 8.0 3/76	160.0					
699-40-E8 AB			400.00						FILLED IN
699-40-0 SW		40342.00 -2.00	420.84 6.0 1/81						PIONEER RANC
699-40-1 GW S		39849.00 -570.00	438.71 8.0 10/61	420.0 100.0 76.0	P	8.0	65.0	220.0	GOLDER 120 CEMENT PLUG AT 100 FT.
699-40-2 SW		40303.00 -2493.00	464.07 6.0 10/81	405.0					
699-40-6 SW		39870.00 -5881.00	487.84 6.0 11/80	283.0 105.0					GOLDER 98
699-40-11C UN			518.23						GOLDER 109
699-40-11D UN									
699-40-11E UN									
699-40-11F UN									



Hanford Wells
PNL-8800 UC-903
M. A. Chamness & J. K. Merz
August 1993
Prepared for U. S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

Qu[illegible] MS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A8622	699-40-11C	-- No information available --								

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOURCE	DATE_OF_SOURCE
A8622	699-40-11C	01/01/1801						

None of the following records for this well exist in the Hanford Well Information System:

**Coordinates, As-built Diagram,
Well Completion Report, Drillers Log,
Water Well Report, Well Summary Report**

Because there are no substantive records confirming this well's existence, it should be Administratively Decommissioned.

699-40-11B (Cont'd)

Material	Thickness	Depth
Fine sand & silt	20	190
Fine sand & fine to medium gravel, some silt	5	195
Medium to coarse gravel, some sand	5	200

A8622 699-40-11C

699-40-11C (Golder Well #X8)
Location: 12/27-1285
Casing Elevation: 521.81
Air rotary, drilled by Carman Water Wells & logged by Lubrecht of Golder Associates for NESCO, 1980, foundation test boring

Material (11)	Thickness	Depth
Medium to fine sand, some silt . .	10	10
Coarse to fine sand & coarse to fine gravel, some silt . . .	15	25
Coarse to fine sand & coarse to fine gravel	5	30
Coarse to fine sand & coarse to fine gravel, some silt	5	35
Coarse to fine sand & coarse to fine gravel	10	45
Coarse to fine sand	40	85
Coarse to fine sand & coarse to fine gravel	15	100
Fine sand & silt, & silty clay . .	5	105
Fine sand & silt, some medium to fine gravel; & silty clay . .	5	110
Fine sand & silt	10	120
Coarse to fine gravelly coarse to fine sand	5	125
Coarse to fine sand & coarse to fine gravel	5	130
Coarse to fine sand & coarse to fine gravel, some silt	10	140
Coarse to fine sand & coarse to fine gravel	25	165
Coarse to fine gravelly coarse to fine sand	10	175
Clayey silt, some fine sand . . .	25	200

HANFORD WELLS
PNL-8800 UC-903
M.A. Chamness & J.K. Merz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

699-40-11D
A8623

WELL ATTRIBUTES REPORT

LD ORDER NO				**LAST INSPECTION**	1/1/1801
ELL ID	**A8623**			**NORTHING**	
ELL NAME	**699-40-11D**	**CONST DATE**		**EASTING**	
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION		
WELL PAD	☐ YES	☐ NO	☑ ND*	WELL PAD	☐ YES	☐ NO
BRASS SURVEY MARKER	☐ YES	☐ NO	☑ ND*	BRASS SURVEY MARKER	☐ YES	☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO	☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO	☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO
WELL LABELED WITH WELL ID	☐ YES	☐ NO	☑ ND*	WELL LABELED WITH WELL ID	☐ YES	☐ NO
WELL LABELED WITH WELL NAME	☐ YES	☐ NO	☑ ND*	WELL LABELED WITH WELL NAME	☐ YES	☐ NO
PROTECTIVE POSTS	☐ YES	☐ NO	☑ ND*	PROTECTIVE POSTS	☐ YES	☐ NO
REMOVABLE POST IN PLACE	☐ YES	☐ NO	☑ ND*	REMOVABLE POST IN PLACE	☐ YES	☐ NO
WELL LOCK	☐ YES	☐ NO	☑ ND*	WELL LOCK	☐ YES	☐ NO
WELL DAMAGED	☐ YES	☐ NO	☑ ND*	WELL DAMAGED	☐ YES	☐ NO
WELL IS DRY	☐ YES	☐ NO	☑ ND*	WELL IS DRY	☐ YES	☐ NO
PARTED CASING	☐ YES	☐ NO	☑ ND*	PARTED CASING	☐ YES	☐ NO
BENTONITE IN WELL	☐ YES	☐ NO	☑ ND*	BENTONITE IN WELL	☐ YES	☐ NO
WELL SANDED IN	☐ YES	☐ NO	☑ ND*	WELL SANDED IN	☐ YES	☐ NO
LAPSED CASING	☐ YES	☐ NO	☑ ND*	COLLAPSED CASING	☐ YES	☐ NO
IPMENT IN WELL	☐ YES	☐ NO	☑ ND*	EQUIPMENT IN WELL	☐ YES	☐ NO
EBRIS IN WELL	☐ YES	☐ NO	☑ ND*	DEBRIS IN WELL	☐ YES	☐ NO
SURFACE EROSION	☐ MAJOR	☐ NONE		SURFACE EROSION	☐ MAJOR	☐ NONE
	☐ MINOR	☑ ND*			☐ MINOR	

LAST PUMP INFORMATION				CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	☐ INSTALLED			PUMP ACTIVITY PERFORMED	☐ INSTALLED	
	☐ REPLACED		☑ ND*		☐ REPLACED	
	☐ REMOVED				☐ REMOVED	
PUMP TESTED	☐ YES	☐ NO	☑ ND*	PUMP TESTED	☐ YES	☐ NO
NEW PUMP	☐ YES	☐ NO	☑ ND*	NEW PUMP	☐ YES	☐ NO
ACTIVITY PEFORMED BY	ND*			ACTIVITY PEFORMED BY		
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED		
PUMP TYPE	ND*			PUMP TYPE		
PUMP MAKE	ND*			PUMP MAKE		
PUMP MODEL	ND*			PUMP MODEL		
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)		
TUBING SIZE (in)				TUBING SIZE (in)		
TUBING MATERIAL	ND*			TUBING MATERIAL		
BING LENGTH (ft)				TUBING LENGTH (ft)		
ING CONNECTION	ND*			TUBING CONNECTION		

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-39-84G AB									PREVIOUS NAME FH-1, 699-39-84C
699-39-84H AB			20.0	70.0					BWIP WELL
699-39-103 VW		39344.00 -103063.00	890.05 8.0 3/76	160.0					
699-40-E8 AB			400.00						FILLED IN . PIONEER RANC
699-40-0 SW		40342.00 -2.00	420.84 6.0 1/81						GOLDER 120
699-40-1 GW S		39849.00 -570.00	438.71 8.0 10/61	420.0 100.0 76.0	P	8.0	65.0	220.0	CEMENT PLUG AT 100 FT.
699-40-2 SW		40303.00 -2493.00	464.07 6.0 10/81	405.0					GOLDER 98
699-40-6 SW		39870.00 -5881.00	487.84 6.0 11/80	283.0 105.0					GOLDER 109
699-40-11C UN			518.23						
699-40-11D UN			518.28						
699-40-11E UN									
699-40-11F UN									

Hanford Wells
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Qu HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A8623	699-40-11D	-- No information available --								

A8623 699-40-11D

699-40-11D (Golder Well #X9)
Location: 12/27-1286
Casing Elevation: 520.33
Air rotary, drilled by Carman Water Wells & logged by Arnold of Golder Associates for NESCO, 1980, foundation test boring

Material (11)	Thickness	Depth
Fine sand	5	5
Medium to fine sand & medium to coarse gravel	10	15
Medium to fine sand & medium gravel	20	35
Medium to fine sand	30	65
Medium to fine sand, some silt	10	75
Medium to fine sand	10	85
Medium to coarse sand	5	90
Medium to fine sand & medium to coarse gravel	15	105
Medium to fine sand & medium to coarse gravel, some silt	5	110
Medium to fine sand, some silt	5	115
Medium to fine sand, some medium gravel	5	120
Fine sand & medium to coarse gravel	20	140
Fine sand & medium to coarse gravel, some silt	5	145
Fine sand & medium to coarse gravel	30	175
Fine sand & silt	11	186

699-40-11E (Golder Well #X10)
Location: 12/27-1287
Casing Elevation: 519.39
Air rotary, drilled by Carman Water Wells & logged by Wilkening of Golder Associates for NESCO, 1980, foundation test boring

Material (11)	Thickness	Depth
Medium to fine sand, some gravel	5	5
Coarse to fine gravel	5	10
Coarse to fine sand, some gravel	5	15
Coarse to fine gravel, some sand	5	20
Coarse to fine gravel	10	30
Coarse to fine sand	5	35
Coarse to fine sand & coarse to fine gravel	10	45
Medium to fine sand	40	85
Coarse to fine sand & coarse to fine gravel	10	95
Coarse to fine sand & silt, some gravel	10	105

HANFORD WELLS
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699-62-57
A8954

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8954			NORTHING	
WELL NAME	699-62-57	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☑ ND* ☐ REMOVED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

6/15/2005

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A8954	699-62-57	-- No information available --								

Well 699-62-57 does not exist. It is highly likely that 699-62-57 is the same as well name 699-61-57. The well ID A8954 should be administratively decommissioned.

Probably the name of 699-61-57 originally was 699-62-57 however that is not documented.

SURVEY DATA REPORT

Request No. 063-340

Project No.	Title:	File No.
\	Well Decommissioning Program / A8954 (699-62-57)	6AT13R26

Job No.	Prepared By	Date	Reviewer	Page
65400891.1193120 CA10	S. Wray	8/31/06	Tim Johnson	1 of 1

DESCRIPTION OF WORK

Stake / Investigate location of Well A8954 (699-62-57), at coordinates given and report if above ground evidence exists.

Horizontal Datum: WCS83S/91 (Meters)

DISTRIBUTION	SDR	PLOT	DWG
Survey File	OR		
B.J. Howard	1		
J.D. Davis	1		
R.L. Biggerstaff	1		
G.G. Kelty	1		
E. Rafuse	1		

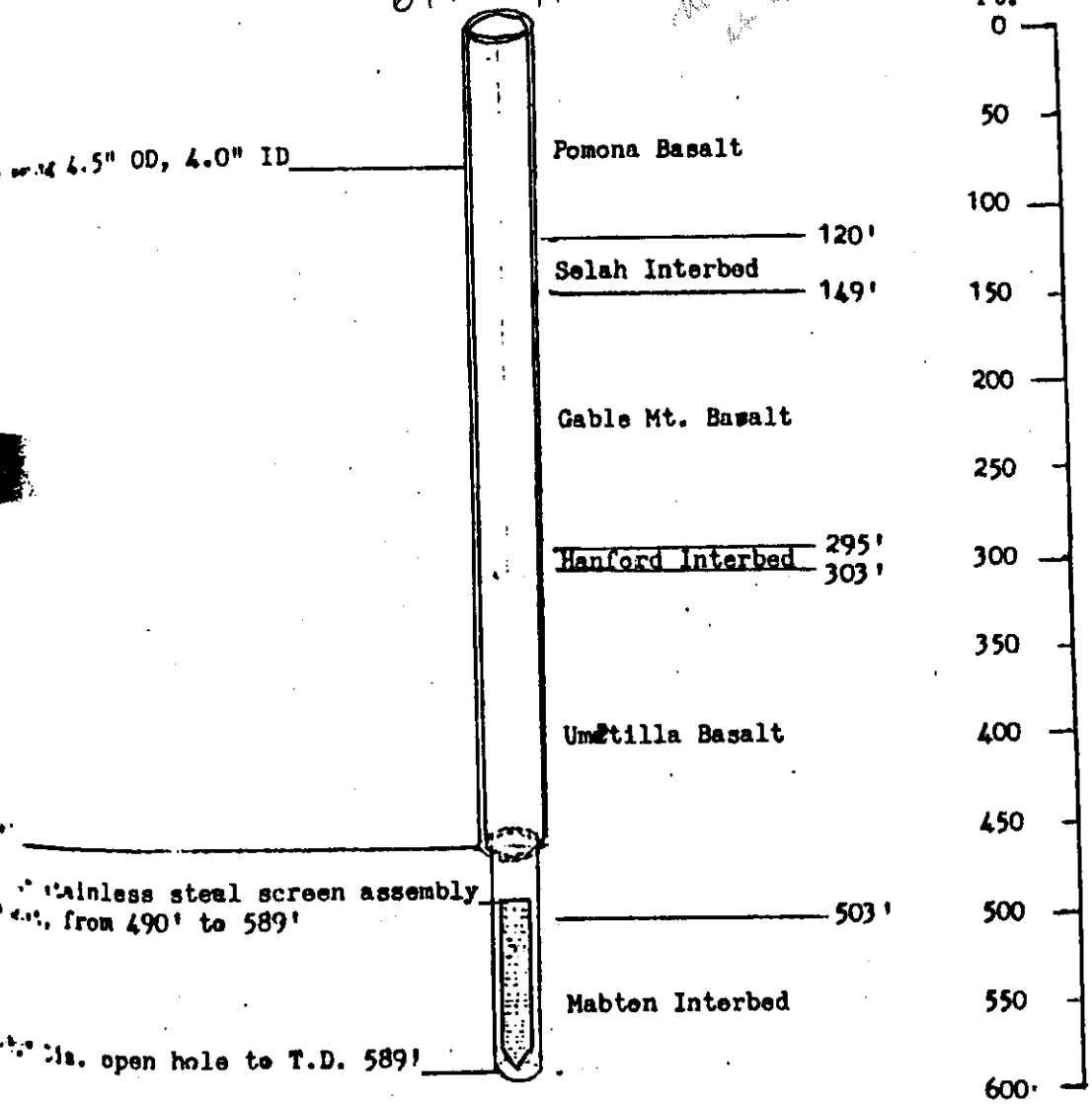
SURVEY RESULTS AND COMMENTS

Well ID	Coordinates Given	Description
A8954	N 142435.46, E 572606.98	Set hub and lath at given coordinates. Found existing Well marked A8935, 6-61-57 at N 142435.18, E 572608.19. Approx. 3 ft stick up. 4 in casing w/ 2 in inner casing. Set in concrete pad.

699-62-56 A 8954

WELL No. D B - 9

699-61-57 A 8935



Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A8191	699-10-E4G	12/31/1974		59	ft		
A8935	699-61-57	09/30/1977		589	ft		

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A8191	699-10-E4G	CANDIDATE FOR DECOMMISSIONING	05/09/2002	HWIS 2005 - ENW WNP 1/4 need GPS
A8935	699-61-57	IN-USE	07/22/1997	

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUAL
A8191	699-10-E4G	UNKNOWN	NAD83	01/01/1801	CONVERTED	126641.04	591066.84	m	
A8935	699-61-57	USACE(JECA)	NAD83(91)	01/15/1993	UNKNOWN	142435.066	572608.219	m	

Query HWIS again

HWIS Interface - Maintenance Information - Latest Attributes

WELL_ID	WELL_NAME	INSPECTION_ID	FIELD_ORDER_NO	DATE_INSPECTED	DEPTH_TO_BOTTOM	DEPTH_TO_BOTTOM_UNITS	DEPTH_TO_BOTTOM_D
A8191	699-10-E4G	3489		01/01/1801			
A8935	699-61-57	2882		01/01/1801	589	ft	

Query HWIS again

HWIS Interface - Maintenance Information - Latest Maintenance Depth to Bottom/Water

WELL_ID	WELL_NAME	DEPTH_TO_BOTTOM	DEPTH_TO_BOTTOM_UNITS	DEPTH_TO_BOTTOM_DATE	DEPTH_TO_WATER	DEPTH_TO_WATER_UNITS	DE
A8191	699-10-E4G						
A8935	699-61-57	589	ft				

TABLE I

LOCATION, ALTITUDE, AND DEPTH TO WATER IN GABLE MOUNTAIN WELLS DRILLED IN 1971

Official Well Designation Number	Field Construction Number	Altitude Mean Sea Level Datum In Feet	North Plant Coordinate, In Feet	West Plant Coordinate In Feet	Depth To Water In Feet Sept.1971
699-56-43	GM# 1	540.37	N56,261	W43,048	132.40
699-55-44	GM# 2	519.67	N55,462	W43,677	126.81
699-54-34	GM# 3	550.22	N54,185	W34,075	145.15
699-53-35	GM# 4	530.98	N53,199	W34,763	140.23
699-50-26	GM# 5	537.30	N50,283	W27,510	144.76
699-49-28	GM# 6	535.42	N49,288	W28,100	142.61
699-51-36	GM# 7	517.11	N51,236	W35,886	--
699-54-45	GM# 8	494.29	N54,203	W44,506	98.19
699-55-40	GM# 9	543.07	N55,331	W40,435	135.58
699-59-32	GM#10	424.20	N59,424	W32,378	58.95
699-60-32	GM#11	425.22	N60,390	W32,032	60.19
699-62-31	GM#12	434.04	N62,454	W31,412	69.04
699-56-26	GM#13	409.04	N55,801	W25,736	--
699-57-25	GM#14	414.54	N56,755	W25,477	49.77
699-58-24	GM#15	418.78	N58,012	W24,181	54.10
699-61-41	GM#16	429.05	N61,355	W41,118	36.96
699-63-51	GM#17	423.37	N62,557	W50,622	21.43
699-61-37	GM#18	442.98	N60,619	W37,043	60.09
699-66-39	GM#19	453.75	N66,099	W39,459	45.88

SHIFT REPORT OF OPERATIONS

Date: Mo. ____ Day ____ Yr. ____ Rockwell Contract No. ____

Hole Number: ____ Location Of Hole: ____ Area: ____ Type Hole ____

SHIFT: ☑ 1st ☐ 2nd ☐ 3rd

Core Rig Cable Tool Rotary Size Hole Size Casing Casing To Depth Start Casing To Depth End Footage By Drive Barrel Footage By Bit Bit No. Reamer No. Bit Type Bit Condition	Fluid Level Ground Elevation Depth Start Depth End Footage In Overburden Footage In Basalt Footage In Interbed Drilling Mud Condition Vis. Wt. Wl. Ph.	Time Distribution Moving Setting Up Tearing Down Drilling Fishing Cementing W.O.C. Drilling Cement Testing Repairs Standby Weather Rockwell Time Contractor Time Compressor Hours Generator Hours	From: To: Personnel Driller (Acceptance) Helper Helper Laborers Mud Used Cubic Ft. Cement Used

Run No.	Depth From	Depth To	Feet Drilled	Core Recovered	% Recovery	Core Time	Remarks

Daily Footage: ____ Report No.: ____ Project: ____

Report By: ____ Approved By: ____

Title: ____ Title: ____

Distribution: White — Basalt Records Retention Center; Green — Drilling & Testing Field File; Canary — Contract File; Pink — Site Analysis Group; Goldenrod — Geoscience Group; Buff Hard Copy — Retain At Wellsite

BC-6400-072 (R-8-82)

DOE-Richland, WA

699-78-36
A8985

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A8985			NORTHING	
WELL NAME	699-78-36	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
UIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
BING LENGTH (ft)		TUBING LENGTH (ft)	
ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-75-23A		74590.00	379.07	35.0					FILLED IN WITH SILT
AB		-23350.00	6.0	35.0					
			5/43						HR-11
699-75-23B		74690.00	380.00	36.0					FILLED IN WITH SILT
AB		-23370.00	6.0	36.0					
			5/43						HR-12
699-76-34			375.01	19.0					FILLED IN
AB			24.0	19.0					
									REF.2 NO.70
699-76-90			414.00	41.0					DUG WELL
GW			36.0						
									13/~~25~~-3D1, REF.7
699-77-34		76925.00	397.24	21.0					FILLED IN
AB		-34275.00	72.0	21.0					
									T14NR27E32Q1
699-77-36		76700.00	412.28	150.0	P	8.0	32.0	82.0	CEMENT PLUG AT 82 FT.
GW		-36150.00	8.0	82.0					
S			4/57	42.0					
699-77-43		76600.00	441.37	44.0					FILLED IN
AB		-42500.00	72.0	44.0					
									REF.2, S1610
699-77-44									
UN									
699-77-54		76700.00	480.59	150.0	P	8.0	70.0	120.0	CEMENT PLUG AT 120 FT.
GW		-54100.00	8.0	118.0					
S			5/57	84.0					
699-78-36			405.00	38.0					FILLED IN FARM WELL
AB			48.0						
									N.RUN, REF.2
				36.0					FILLED IN
									REF.2 NO.111
				150.0	P	8.0	70.0	120.0	#15 SCREEN 67-107 FT.
				107.0	S	6.0	67.0	107.0	
				76.0					

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

Que MS again

WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A8985	699-78-36	– No information available –								

DRILLING LOG

PROJECT NO. CA-700

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	#5 699-78-36	April 15, 1957	
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Hatch			

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
1030	42.5			To water before perforating-will perforate from 32' down to 82'		
				6 cuts per row - one row per foot-total of 300 perforations.		
				Well tested - O.K. for straightness - using 8' cylinder 7" in		
				diameter.		
1330				Finished perforating - water level 27½' after perforating and developing.		
1600				Moving to next location.		

REMARKS

DRILLING LOG

PROJECT NO. CA-700

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	#5 699-78-36	April 12, 1957	90'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Hatch	Self	Day	150'

DRILLING		CORING			OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH	TYPE SOIL	TIME	EXPLANATION
1145-1230	95'			Green Sandy clay Drilling good	1230-1245	Welded casing 96' (OH) Sampled 95'
1245-1305	100'			Green sandy clay Gravel streaks	1305-1310	Sampled 100'
130-1330	105'			Green sandy clay Gravel streaks	1330-1345	Welded casing 104' (OH). Sampled 105'
1345-1410	110'			Green sandy clay	1410-1425	Welded casing 112' (OH). Sampled 110'
1425-1450	115'			Brown sandy clay	1450-1505	Sampled 115'
1505-1515	120'			Brown sandy clay	1515-1530	Welded casing 120' (OH). Sampled 120'
1530-1545	125'			Brown sandy clay Sand coarse	1545-1550	Sampled 125'
1550-1600	130'			Brown Sandy clay Sand coarse	1600-1615	Welded casing 120' (OH). Sampled 130'
1615-1630	135'			Brown sandy clay Sand coarse	1630-1645	Welded casing 136' (OH). Sampled 135'.
1645-1700	140'			Brown sandy clay Fine gravel	1700-1710	Sampled 140'
1710-1725	145'			Brown sandy clay Fine gravel	1725-1740	Welded casing 144' (OH). Sampled 145/
1740-1800	150'			Brown sandy clay Fine gravel	1800-1820	Welded casing 152' OH. Sampled 150'.

REMARKS

0930 to 1130 - being shown location of next two wells.

1230 - at 95' hole making water - water level approx. 45'

Hole continued to make water all day - added 20 gals. water.

Hole finished at 150' - 15' casing (OH)

(1-54) AEC-GE RICHLAND, WASH.

DRILLING LOG

PROJECT NO. CA-700

RIG NO. 1	WELL NO. # 5	DATE April 11, 1957	DEPTH BEGINNING OF SHIFT 45
DRILLER Hatch	FOREMAN 699-78-36	SHIFT	DEPTH COMPLETION OF SHIFT 90'

DRILLING TIME	DRILLING DEPTH	CORING TIME	CORING DEPTH	TYPE SOIL
1050-1145	70'			Gray clay Drilling good
205-1300	75'			Firm brown clay at 74'-drilling good
1300-1350	80'			Firm gray clay
1410-1500	85'			Firm gray clay
1500-1550	90'			Firm gray clay

OTHER DELAYS TIME	EXPLANATION
1145-1205	Welding casing 72' OK. Sampled 70'
1300-1330	Sampled 75'
1350-1410	Welded casing 80' OK. Sampled 80'
1500-1510	Sampled 85'
1550-1600	Welded casing 86' OK
1600-1610	Sampled 90'

REMARKS

Shut down to put on new drill line.

(1-54) AEC-GE RICHLAND, WASH.

DRILLING LOG

PROJECT NO. CA-700

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	#5 699-78-36	April 10, 1957	35'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Harvey R. Hatch	Self	Day	65'

DRILLING		CORING			OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH	TYPE SOIL	TIME	EXPLANATION
1100-1150	40'			Loose gravel-holding water drilling fair	1030-1100	Sampled 35' - welded casing 40' OH)
1200-1430	45'			Loose gravel-sandy green clay hole making water-drilling good		
1330				Green clay and gravel 44'	1150-1200	Sampled 40'
1450-1505				Sampled 45'	1430-1450	Welded casing 48' OH)
1505-1525	50'			Green sandy clay, Sticky		
1525-1545				Sampled 50' S	1525-1545	Welded casing 56' OH
1545-1610	55'			Green sandy clay- Streaks of yellow		
1610-1620				Sampled 55'		
1620-1655	60'			Green sandy clay- Drilling good		
1655-1705				Sampled 60'		
1705-1730	65'			Gray clay Drilling slow		
1730-1800				Sampled 65'	1730-1745	Welded casing 64' OH

REMARKS

1300 - Hole making water at 42'

Casing shut water off when driven to 46'

Used 120 gals. water

CA 700

DRILLING LOG

PROJECT NO.

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	#5 \ 699-76-30	April 9, 1957	16'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Harvey R. Hatch	Self	Day	35'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
0930-1200	20'			Hard cemented gravel-drilling slow.		
					1200-1215	Welded casing 24' (OH)
					1215-1225	Sampled
1230-1430	25'			Loose gravel-Losing water-drilling fair		
					1430-1440	Sampled
1440-1645	30'			Loose gravel-small Holding water-Drilling hard		
					1545-1600	Welded casing 32' (OH)
					1645-1700	Sampled
1700-1800	35'			Loose gravel-Drilling Fair		

REMARKS

Used 30 gals. of water

DRILLING LOG

PROJECT NO. CA-700

RIG NO.	WELL NO.	DATE	DEPTH BEGINNING OF SHIFT
1	#5 699-78-36	April 8, 1957	0'
DRILLER	**FOREMAN**	**SHIFT**	**DEPTH COMPLETION OF SHIFT**
Harry R. Hatch	Self	Day	16'

DRILLING		CORING			OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH	TYPE SOIL	TIME	EXPLANATION
1300-1330	5'			2' top sand- 3' cemented gravel		
1330-1500	10'			gravel		
					1500	Welded 8' casing - 8" pipe in hole 16" OH)
						Added 45 gal. water
1500-1800	15'			Gravel		

REMARKS

699-84-36D
A9026

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9026			NORTHING	
WELL NAME	699-84-36D	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-84-35B AB			400.00 24.0	29.0					FILLED IN 699-84-35A, REF.2
699-84-36A AB		84375.00 -35700.00	408.01 42.0	32.0					FILLED IN T14NR27E29F1
699-84-36B AB									FILLED IN 14/27-29E1
699-84-36C AB									FILLED IN 14/27-29M1
699-84-36D VW			4.0 4/74	35.0	P	6.0	29.0	30.0	4" LINER
699-84-36E VW						5.0	29.0	30.0	4" LINER
699-84-36F VW						5.0	29.0	30.0	4" LINER
699-84-37 VW									REF.2 NO.84
699-84-46 AB			48.0	27.0					FILLED IN REF.2 NO.116
699-84-59 GW		84325.00 -59480.00	459.97 3.0 2/73	1001.0					6" TO 120 FT. BH-16
699-84-61A GW			12.0	111.0					14/25-14N1, 699-84-61
699-84-61B GW		83720.00 -60880.00	470.60 12/72	115.0 76.0					BH-13

Hanford Wells
PNL-8800 UC-903
M. A. Chamness & J. K. Merz
August 1993
Prepared for U. S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

IWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9026	699-84-36D	– No information available –								

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A9026	699-84-36D	04/30/1974		35	ft		

DRILL LOG

BY	RIG	WELL NO.	COMPUTER NUMBER	PROJECT OR
KRF	22-W	699-84-36D		
DATE 4/4/74		DEPTH 0 TO 35		SUBCONTRACT NO.

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
	142	CB	W	10% MS 20% FS 70% WS SILT		
	3			10% SC 10% CP 10% IP 10% MS 60% FS SILT		
	4			"		
	5			"		
	6			30% SC 20% IP 10% MP 20% FS		
	7					
	8			10% MC 20% SC 10% CP 10% MP 20% IP 30% FS		
	9			"		
	10		D	"		
	11			"		
	12			"		
	13			"		
	14			"		
	15			" 70' Sample		
	16			10% MC 20% SC 10% CP 10% MP 20% IP 30% FS	take 5 [illegible]	
	17			"		
	18			"		
	19			"		

REMARKS:

see page 2.

A-6000-021 (1-74)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ____ STANDING WATER

DRILL LOG

BY	RIG	WELL NAME	COMPUTER NUMBER	PROJECT OR WORK ORDER NO.
R. E. Eyan	#1	White Bluff		
DATE		DEPTH		SUBCONTRACT NO.
4-4-74		8,475 TD		JAJ 763

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
				1230 to 4:30 special work loading and hauling casing for wells at wht. bluffs		
				4 hrs. total special work		

REMARKS:

A-6000-021 (1-74)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM

LOG

W. Y. Rodda Const. | 8436-15 | White Bluff

DATE 11-4-74 | DEPTH 0 TO 8 | SUBCONTRACT NO. JAJ 263

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION (% EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.)	TIME	DRILLING COMMENTS
	8	C	D	sand & gravel from 2ft		
				12 hr, 3 hr moving & putting rig on location @ White Bluffs		
				5 hrs total special work		

REMARKS:

A-6000-021 (1-71)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ___ ..ANDING WATER

DRILL LOG

BY: D.G. Bell Co.
DATE: April 5, 1974
RIG: 1 Sh.
WELL NO.: 679-54-360
DEPTH: 8' TO 25'
COMPUTER NUMBER:
PROJECT OR WORK ORDER NO.:
SUBCONTRACT NO.: 763

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION (% EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.)	TIME	DRILLING COMMENTS
33'6"	25'	D	dry	60% gravel with sand grey sand		

REMARKS:

A-6000-021 (1-74)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE ____STANDING WATER

DRILL. LOG

BY Harry R. Baker
RIG 1
WELL NO. 099-84-360
COMPUTER NUMBER
PROJECT OR WORK ORDER NO.
DATE April 8, 1974 8[AM] to 4[30]
DEPTH 25' TO 35'
SUBCONTRACT NO. 763

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION (% EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.)	TIME	DRILLING COMMENTS
38'0"	35'	D	dry	50% sand 50% gravel		

REMARKS: 2½ hrs. special work 11[00] to 1[30] perforations 29½' to 30½' 2 cuts/rod per foot to sand
2½ hrs. special work 2[00] to 4[30] setting 4½" pipe

(1-74)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE STANDING WATER

DRILL LOG

BY	RIG	WELL	COMPUTER NUMBER	PROJECT OR WELDER NO.
Harry	2	699-84-36D		
DATE	DEPTH			SUBCONTRACT NO.
April 9, 1974	8:00 to 4:30	35' TO 35'		763

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
				2 hrs special work 8:00 to 10:00 reperforating well per sch. 3 sch per ft for 29½' to 30½ ft.		added 2 sets
				2 hrs. special work 10:00 to 12:00 setting 38'3" of ~~pipe~~ 4" liner all couplings welded to top + bottom with cover plate welded to bottom of liner		

REMARKS: 38' casing 35' drilling

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE STANDING WATER

699-84-36D
Location: 14/27-29M4
Casing Elevation:
Cable tool, drilled by Rodda of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
60% gravel, 40% gray sand	25	25
50% gravel, 50% sand	10	35

699-84-36E
Location: 14/27-29M5
Casing Elevation:
Cable tool, drilled by Baker of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
60% gravel, 40% sand	35	35

699-84-36F
Location: 14/27-29M6
Casing Elevation:
Cable tool, drilled by Baker of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
80% sand, 20% brown gravel	2	2
60% sand, 40% gray gravel	10	12
60% sand, 40% gray gravel.	13	25
60% gravel, 30% sand, 10% cobbles	10	35

699-85-11
Location: 14/28-30M1
Casing Elevation: 733.75
Cable tool, drilled for USBR, hydrologic investigation borehole

Material (19)	Thickness	Depth
Coarse sand	12	12
Hard sand	17	29
Sand	9	38
Fine sand	47	85
Ringold clay	6	91

HANFORD WELLS
PNL-8800 UC-903
M.A. Chamness & J.K. Merz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

699-84-36E
A9027

WELL ATTRIBUTES REPORT

ELD ORDER NO				**LAST INSPECTION**	1/1/1801
WELL ID	A9027			**NORTHING**	
WELL NAME	699-84-36E	**CONST DATE**		**EASTING**	
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION		
WELL PAD	☐ YES	☐ NO	☑ ND*	WELL PAD	☐ YES	☐ NO
BRASS SURVEY MARKER	☐ YES	☐ NO	☑ ND*	BRASS SURVEY MARKER	☐ YES	☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO	☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO	☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO
WELL LABELED WITH WELL ID	☐ YES	☐ NO	☑ ND*	WELL LABELED WITH WELL ID	☐ YES	☐ NO
WELL LABELED WITH WELL NAME	☐ YES	☐ NO	☑ ND*	WELL LABELED WITH WELL NAME	☐ YES	☐ NO
PROTECTIVE POSTS	☐ YES	☐ NO	☑ ND*	PROTECTIVE POSTS	☐ YES	☐ NO
REMOVABLE POST IN PLACE	☐ YES	☐ NO	☑ ND*	REMOVABLE POST IN PLACE	☐ YES	☐ NO
WELL LOCK	☐ YES	☐ NO	☑ ND*	WELL LOCK	☐ YES	☐ NO
WELL DAMAGED	☐ YES	☐ NO	☑ ND*	WELL DAMAGED	☐ YES	☐ NO
WELL IS DRY	☐ YES	☐ NO	☑ ND*	WELL IS DRY	☐ YES	☐ NO
PARTED CASING	☐ YES	☐ NO	☑ ND*	PARTED CASING	☐ YES	☐ NO
BENTONITE IN WELL	☐ YES	☐ NO	☑ ND*	BENTONITE IN WELL	☐ YES	☐ NO
WELL SANDED IN	☐ YES	☐ NO	☑ ND*	WELL SANDED IN	☐ YES	☐ NO
LAPSED CASING	☐ YES	☐ NO	☑ ND*	COLLAPSED CASING	☐ YES	☐ NO
EQUIPMENT IN WELL	☐ YES	☐ NO	☑ ND*	EQUIPMENT IN WELL	☐ YES	☐ NO
DEBRIS IN WELL	☐ YES	☐ NO	☑ ND*	DEBRIS IN WELL	☐ YES	☐ NO
SURFACE EROSION	☐ MAJOR ☐ MINOR	☐ NONE	☑ ND*	SURFACE EROSION	☐ MAJOR ☐ MINOR	☐ NONE

LAST PUMP INFORMATION				CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED		☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED	
PUMP TESTED	☐ YES	☐ NO	☑ ND*	PUMP TESTED	☐ YES	☐ NO
NEW PUMP	☐ YES	☐ NO	☑ ND*	NEW PUMP	☐ YES	☐ NO
ACTIVITY PEFORMED BY	ND*			ACTIVITY PEFORMED BY		
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED		
PUMP TYPE	ND*			PUMP TYPE		
PUMP MAKE	ND*			PUMP MAKE		
PUMP MODEL	ND*			PUMP MODEL		
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)		
TUBING SIZE (in)				TUBING SIZE (in)		
TUBING MATERIAL	ND*			TUBING MATERIAL		
TUBING LENGTH (ft)				TUBING LENGTH (ft)		
TUBING CONNECTION	ND*			TUBING CONNECTION		

ND* - Not Documented

6/15/2005

WELL NAME WELL TYPE PUMP TYPE	COORDINATES L 83 NS/EW	 PLANT NS/EW	CASING ELEV WELL DIAM DATE COMPL	DRILL DEPTH COMPL DEPTH DEPTH WATER	PERF/SCREEN TYPE	 DIAM	 TOP	 BOT	COMMENTS PREVIOUS WELL NAMES
699-84-35B AB			400.00 24.0	29.0					FILLED IN 699-84-35A, REF.2
699-84-36A AB		84375.00 -35700.00	408.01 42.0	32.0					FILLED IN T14NR27E29F1
699-84-36B AB									FILLED IN 14/27-29E1
699-84-36C AB									FILLED IN 14/27-29M1
699-84-36D VW			4.0 4/74	35.0	P	6.0	29.0	30.0	4" LINER
699-84-36E VW			4.0 4/74	35.0	P	6.0	29.0	30.0	4" LINER
699-84-36F VW							29.0	30.0	4" LINER
699-84-37 VW									REF.2 NO.84
699-84-46 AB									FILLED IN REF.2 NO.116
699-84-59 GW		84325.00 -59480.00	459.97 3.0 2/73	1001.0					6" TO 120 FT. BH-16
699-84-61A GW			12.0	111.0					14/25-14N1, 699-84-61
699-84-61B GW		83720.00 -60880.00	470.60 12/72	115.0 76.0					BH-13

Hanford Wells
PNL-8800 UC-903
M. A. Chamness & J. K. Merz
August 1993
Prepared for U. S. Dept of Energy under
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WIS Interface - Survey Information - Horizontal

NELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
49027	699-84-36E	-- No information available --								

DRILL LOG

BY: Henry V. Biber
DATE: April 6, 1974
RIG: 2
WELL NUMBER: 699-84-36E
DEPTH: 0' TO 22'
COMPUTER NUMBER:
PROJECT OR WORK ORDER NO.:
SUBCONTRACT NO.: 263

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION (% EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.)	TIME	DRILLING COMMENTS
11.5'	20'	0	dry	60% gravel 40% sand		
~~22~~						
				1 hr. special work 8:00 to 9:00 moving rig 2' East		

REMARKS:

L LOG

BY: Henry V. Bobo
RIG: 2
DATE: April 14, 1974 8 00 to 4 00
WELL NUM: 69 V-36E
DEPTH: 22' TO 35'
COMPUTER NUMBER:
PROJECT OR WORK ORDER NO.:
SUBCONTRACT NO.: 763

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION (% EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.)	TIME	DRILLING COMMENTS
32.2'	35'	D	Dry	60% gravel 40% sand		
5.8'						
38'						
				3 hrs. special work 12 00 to 3 00 perforating well 29½' to 30½ ft 4 cuts 1st 3rd ft all cuts in direction of slug well		
				1 hr. special work 3 00 to 4 00 welding cap on 4" pipe & welding collar on 4" pipe		

REMARKS: 35' of drilling 38' of casing

A-6000-021 (1-74)

D—DRIVE BARREL H—HARD TOOL L—LARGE M—MEDIUM S—SMALL VC—VERY COARSE C—COARSE F—FINE VF—VERY FINE ____ STANDING WATER

DRILL LOG

BY: Harrill & Bade
DATE: April 2, 1984
RIG: 1
8:30
WELL NUMBER: 699-84-36E
DEPTH: 35' TO 35'
COMPUTER NUMBER:
PROJECT OR WORK ORD. NO.:
SUBCONTRACT NO.: 763

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
38'						
				2 hrs special work 8:30 & 10:30 setting 4" liner and cementing bottom of well		in well 38'6"

REMARKS:

699-84-36D
Location: 14/27-29M4
Casing Elevation:
Cable tool, drilled by Rodda of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
60% gravel, 40% gray sand	25	25
50% gravel, 50% sand	10	35

699-84-36E
Location: 14/27-29M5
Casing Elevation:
Cable tool, drilled by Baker of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
60% gravel, 40% sand	35	35

699-84-36F
Location: 14/27-29M6
Casing Elevation:
Cable tool, drilled by Baker of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
80% sand, 20% brown gravel	2	2
60% sand, 40% gray gravel	10	12
60% sand, 40% gray gravel.	13	25
60% gravel, 30% sand, 10% cobbles	10	35

699-85-11
Location: 14/28-30M1
Casing Elevation: 733.75
Cable tool, drilled for USBR, hydrologic investigation borehole

Material (19)	Thickness	Depth
Coarse sand	12	12
Hard sand	17	29
Sand	9	38
Fine sand	47	85
Ringold clay	6	91

HANFORD WELLS
PNL-8800 UC-903
M.A. Chamness & J.K. Merz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

699-84-36F
A9028

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9028			NORTHING	
WELL NAME	699-84-36F	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION		
WELL PAD	☐ YES	☐ NO	☑ ND*	WELL PAD	☐ YES	☐ NO
BRASS SURVEY MARKER	☐ YES	☐ NO	☑ ND*	BRASS SURVEY MARKER	☐ YES	☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO	☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES	☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO	☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES	☐ NO
WELL LABELED WITH WELL ID	☐ YES	☐ NO	☑ ND*	WELL LABELED WITH WELL ID	☐ YES	☐ NO
WELL LABELED WITH WELL NAME	☐ YES	☐ NO	☑ ND*	WELL LABELED WITH WELL NAME	☐ YES	☐ NO
PROTECTIVE POSTS	☐ YES	☐ NO	☑ ND*	PROTECTIVE POSTS	☐ YES	☐ NO
REMOVABLE POST IN PLACE	☐ YES	☐ NO	☑ ND*	REMOVABLE POST IN PLACE	☐ YES	☐ NO
WELL LOCK	☐ YES	☐ NO	☑ ND*	WELL LOCK	☐ YES	☐ NO
WELL DAMAGED	☐ YES	☐ NO	☑ ND*	WELL DAMAGED	☐ YES	☐ NO
WELL IS DRY	☐ YES	☐ NO	☑ ND*	WELL IS DRY	☐ YES	☐ NO
PARTED CASING	☐ YES	☐ NO	☑ ND*	PARTED CASING	☐ YES	☐ NO
BENTONITE IN WELL	☐ YES	☐ NO	☑ ND*	BENTONITE IN WELL	☐ YES	☐ NO
WELL SANDED IN	☐ YES	☐ NO	☑ ND*	WELL SANDED IN	☐ YES	☐ NO
COLLAPSED CASING	☐ YES	☐ NO	☑ ND*	COLLAPSED CASING	☐ YES	☐ NO
EQUIPMENT IN WELL	☐ YES	☐ NO	☑ ND*	EQUIPMENT IN WELL	☐ YES	☐ NO
DEBRIS IN WELL	☐ YES	☐ NO	☑ ND*	DEBRIS IN WELL	☐ YES	☐ NO
SURFACE EROSION	☐ MAJOR	☐ NONE		SURFACE EROSION	☐ MAJOR	☐ NONE
	☐ MINOR	☑ ND*			☐ MINOR	

LAST PUMP INFORMATION			CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED		PUMP ACTIVITY PERFORMED	☐ INSTALLED
	☐ REPLACED	☑ ND*		☐ REPLACED
	☐ REMOVED			☐ REMOVED
PUMP TESTED	☐ YES ☐ NO	☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO	☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*		ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED			DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*		PUMP TYPE	
PUMP MAKE	ND*		PUMP MAKE	
PUMP MODEL	ND*		PUMP MODEL	
PUMP INTAKE DEPTH (ft)			PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)			TUBING SIZE (in)	
TUBING MATERIAL	ND*		TUBING MATERIAL	
TUBING LENGTH (ft)			TUBING LENGTH (ft)	
TUBING CONNECTION	ND*		TUBING CONNECTION	

ND* - Not Documented

6/15/2005

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-84-35B AB			400.00 24.0	29.0					FILLED IN 699-84-35A, REF.2
699-84-36A AB		84375.00 -35700.00	408.01 42.0	32.0					FILLED IN T14NR27E29F1
699-84-36B AB									FILLED IN 14/27-29E1
699-84-36C AB									FILLED IN 14/27-29M1
699-84-36D VW			4.0 4/74	35.0	P	6.0	29.0	30.0	4" LINER
699-84-36E VW			4.0 4/74	35.0	P	6.0	29.0	30.0	4" LINER
699-84-36F VW			4.0 4/74	35.0	P	6.0	29.0	30.0	4" LINER
699-84-37 VW									REF.2 NO.84
699-84-46 AB									FILLED IN REF.2 NO.116
699-84-59 GW									6" TO 120 FT. BH-16
699-84-61A GW			12.0	111.0					14/25-14N1, 699-84-61
699-84-61B GW		83720.00 -60880.00	470.60 12/72	115.0 76.0					BH-13

Hanford Wells
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HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9028	699-84-36F	– No information available –								

DRILL LOG

BY	RIG	WELL NUMBER	COMPUTER NUMBER	PROJECT OR WORK ORL O.
Harry V. Dale	2	699-84-36F		
DATE: April 12, 1974	8:30 & 4:30	DEPTH: 0' TO 25'		SUBCONTRACT NO. 763

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION (% EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.)	TIME	DRILLING COMMENTS
11'3"	2'	O	Dry	80% sand 20% gravel brown		
21'3"	12'	O	Dry	60% sand 40% gravel grey		
	25'	O	Dry	60% sand 40% gravel grey		

REMARKS:

A-6000-021 (1-74)

D-DRIVE BARREL H-HARD TOOL L-LARGE M-MEDIUM S-SMALL VC-VERY COARSE C-COARSE F-FINE VF-VERY FINE

DRILL LOG

BY	RIG	WELL NUMBER	COMPUTER NUMBER	PROJECT OR WORK ORDER NO.
Harry L Gobble	2	699-8Y-36F		
DATE: April 15, 1974	8 08 84 30	DEPTH: 25' TO 35'		SUBCONTRACT NO. 263

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION (% EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.)	TIME	DRILLING COMMENTS
21'3"	35'	D	dry	60% gravel 30% sand 10% cobbles		
32'1"						
38'0"						
				$2\frac{1}{2}$ hr special work 2 08 84 30 perforating casing 4 untold		
				3rd 1/ft $30\frac{1}{2}$' to $29\frac{1}{2}$' directed towards slug well		

REMARKS: 2"0" pipe 35' drilling

DRILL LOG

BY	RIG	WELL NUMBER	COMPUTER NUMBER	PROJECT OR WORK ORDER NO.
Harry V. Barber	2	699-37-36F		
DATE: March 16, 1974	8" T 4"	DEPTH: 25' TO		SUBCONTRACT NO. 263

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION (EACH GRAIN SIZE, COLOR, ROUNDNESS, ...)	TIME	DRILLING COMMENTS
38'6"	1'					
				1 hr special work 8"&6" pulling 38'6" of 6" liner		
				1 hr special work 9"&16" reaming mud hole		
				2 hr special work 16"&12" setting 38'6" of 4" liner		
				1 hr special work 12 3/4" & 10" welding mud leg		
				3 hr special work moving rig from 21-54 to 36-54		2994-21-53

REMARKS:

699-84-36D
Location: 14/27-29M4
Casing Elevation:
Cable tool, drilled by Rodda of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
60% gravel, 40% gray sand	25	25
50% gravel, 50% sand	10	35

699-84-36E
Location: 14/27-29M5
Casing Elevation:
Cable tool, drilled by Baker of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
60% gravel, 40% sand	35	35

699-84-36F
Location: 14/27-29M6
Casing Elevation:
Cable tool, drilled by Baker of Bach Drilling Company for ARHCO, 1974, in situ testing borehole

Material (1)	Thickness	Depth
80% sand, 20% brown gravel	2	2
60% sand, 40% gray gravel	10	12
60% sand, 40% gray gravel.	13	25
60% gravel, 30% sand, 10% cobbles	10	35

699-85-11
Location: 14/28-30M1
Casing Elevation: 733.75
Cable tool, drilled for USBR, hydrologic investigation borehole

Material (19)	Thickness	Depth
Coarse sand	12	12
Hard sand	17	29
Sand	9	38
Fine sand	47	85
Ringold clay	6	91

HANFORD WELLS
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699-97-43O
A9776

WELL ATTRIBUTES REPORT

WELL ID	A9776	**NORTHING**	153090.273	**FIELD ORDER NO**	
WELL NAME	699-97-430	**EASTING**	576671.931	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A5360	**ELEVATION**	129.723	**CONST DATE**	12/31/1965
GW OPERABLE UNIT	100-HR-3-H	**DRILL DATE**	10/12/1962	**CONST DEPTH**	60
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☑ ND ☐ MINOR ☐ NONE	SURFACE EROSION	☐ MAJOR ☐ MINOR ☐ NONE

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☑ ND ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	__/__/____
PUMP IN WELL	☐ YES ☐ NO ☑ ND	PUMP IN WELL	☐ YES ☐ NO
PUMP TESTED	☐ YES ☐ NO ☑ ND	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND	NEW PUMP	☐ YES ☐ NO
PUMP TYPE		PUMP TYPE	
PUMP MAKE		PUMP MAKE	
PUMP MODEL		PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	

LAST TUBING INFORMATION		CURRENT TUBING INFORMATION	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL		TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION		TUBING CONNECTION	

LAST MEASUREMENT INFORMATION		CURRENT MEASUREMENT INFORMATION	
DEPTH TO WATER(ft)		DEPTH TO WATER(ft)	
DEPTH TO WATER DATE		DEPTH TO WATER DATE	__/__/____
DEPTH TO BOTTOM(ft)	60	DEPTH TO BOTTOM(ft)	
DEPTH TO BOTTOM DATE		DEPTH TO BOTTOM DATE	__/__/____
STICK UP(ft)		STICK UP(ft)	
REFERENCE MARK(ft)		REFERENCE MARK(ft)	
REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND	REFERENCE MARK IS TOC	☐ YES ☐ NO

WELL ATTRIBUTES REPORT

WELL ID	A9776	**NORTHING**	153090.273	**FIELD ORDER NO**	
WELL NAME	699-97-43O	**EASTING**	576671.931	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A5360	**ELEVATION**	129.723	**CONST DATE**	12/31/1965
GW OPERABLE UNIT	100-HR-3-H	**DRILL DATE**	10/12/1962	**CONST DEPTH**	60
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

WELL ATTRIBUTES REPORT

WELL ID	A9776	**NORTHING**	153090.273	**FIELD ORDER NO**	
WELL NAME	699-97-43O	**EASTING**	576671.931	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A5360	**ELEVATION**	129.723	**CONST DATE**	12/31/1965
GW OPERABLE UNIT	100-HR-3-H	**DRILL DATE**	10/12/1962	**CONST DEPTH**	60
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

PIEZOMETER O:

PIEZOMETER INFORMATION		
PIEZOMETER IS PRESENT	☐ YES	☐ NO
PIEZOMETER IS LABELED	☐ YES	☐ NO

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-96-49	152858.31	96384.90	419.26	100.0	P	8.0	28.0	96.0	PIEZOMETERS INSTALLED 6/77
GW	574851.56	-49215.60	8.0	100.0					
S			10/62	40.0					199-96-49
699-96-49O		96388.00	419.63	50.0	P	1.5	30.0	50.0	REMOVED
AB		-49232.00	1.5						
			12/65	37.0					
699-96-49P		96388.00	419.29	100.0	P	1.5	79.0	89.0	60 SLOT SCREEN; INSTALLED 6/77
GW		-49232.00	1.5	89.0	P	8.0	28.0	96.0	
			10/62	38.0					
699-96-52	152728.90	95966.00	414.72						DUG WELL
GW	574147.54	-51526.60	12.0						
				30.0					
699-96-52P		95982.00	412.52						
GW		-51568.00	1.5	36.0					
				30.0					
699-97-43	153090.52	97132.10	421.84	100.0	P	8.0	25.0	97.0	CEMENT PLUG AT 83 FT.
GW	576672.03	-43240.80	8.0	83.0					
S			10/62	43.0					199-97-43
699-97-43O		97143.00	422.10	60.0	P	1.5	40.0	60.0	REMOVED
AB		-43241.00	1.5	60.0					
			12/65	43.0					
699-97-43P						1.5	70.0	90.0	REMOVED
AB									
699-97-47									
GW									DUG WELL
									REF.2 NO.141
699-97-48									
AB									FILLED IN
									14/26-13D1, N.RUN
699-97-51A	153122.37	97254.40	402.33	32.0	P	8.0	12.0	39.0	
GW	574468.39	-50470.70	8.0	37.0					
S				21.0					199-97-51A, 699-97-50
									699-97-51, REF.2
699-97-51B	152981.72	96793.10	407.46	28.0					
GW	574436.89	-50575.20	12.0	31.0					FILLED AROUND 12" CORR. LINER
				22.0					14/26-14D1, 699-97-51A

Hanford Wells
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HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
A9776	699-97-43O	USACE(JECA)	NAD83(91)	01/15/1993	UNKNOWN	153090.273	576671.931	m	

Piekarski, Kenneth M

From: Howard, Bonnie J
Sent: Wednesday, May 09, 2007 8:10 AM
To: Piekarski, Kenneth M
Subject: FW: these are the wells of concern and the piezometers whose existence is also being questioned.

From: Worley, Scott H
Sent: Wednesday, May 09, 2007 8:02 AM
To: Howard, Bonnie J
Subject: RE: these are the wells of concern and the piezometers whose existence is also being questioned.

Bonnie,

For well 699-97-43, in 1976 the piezometers were removed and the well cleaned out. A cement plug was installed at 83'.

Scott Worley

From: Howard, Bonnie J
Sent: Tuesday, May 08, 2007 2:47 PM
To: Worley, Scott H
Cc: Wright, Christopher S; Howard, Bonnie J; Jackson, Ronald L; Raidl, Robert F
Subject: these are the wells of concern and the piezometers whose existence is also being questioned.

A5360	699-97-43	PIEZOMETER HOST	FY 2007 water level wells	IN-USE
A9776	699-97-43O	HOSTED PIEZOMETER	2006 Field Inspection host has pump. Plate obscures any piezos	UNKNOWN
A9777	699-97-43P	HOSTED PIEZOMETER	2006 Field Inspection host has pump. Plate obscures any piezos	UNKNOWN
A5358	699-96-49	PIEZOMETER HOST	FY 2007 water level wells	IN-USE
A9774	699-96-49O	HOSTED PIEZOMETER	2006 Field Inspection host has pump piezometer existswell is west of 100H NE of 100 D DTB 51.95 DTW 36.82	UNKNOWN
A9775	699-96-49P	HOSTED PIEZOMETER	FY 2007 water level wells	IN-USE

From: Worley, Scott H
Sent: Tuesday, May 08, 2007 2:01 PM
To: Howard, Bonnie J
Subject: FW: Well Decommisioning

From: Raidl, Robert F
Sent: Tuesday, May 08, 2007 11:47 AM
To: Jackson, Ronald L; Swanson, L Craig
Cc: Wright, Christopher S; Worley, Scott H

Subject: RE: Well Decommisioning

ALL
The wells in question were 699-96-49 and 699-97-43. They were drilled in 1962 to 100 ft and completed with perforated carbon steel casing across the RUM - Hanford contact, which was at about 65 ft in 96-49 and 50-55 ft in 97-43.

Well 699-96-49 was perforated and cemented from 60-70 (across the RUM-Hanford contact) and then backfilled to about 52 ft with sand, pea gravel and bentonite in 1992. This should have taken care of the contamination between aquifers issue.

Well 699-97-43 was plugged from 83-100 with cement in 1976 and then backfilled with sand, gravel and bentonite pellets in 1992. It was not pressure grouted.

The problem, as I see it, was that these wells were open across the RUM in 1967 when the huge infiltration test in the northern D area raised the static water level in 96-49 over 10 ft and may have driven chromium deeper into the aquifer. Likewise, in 97-43, which is near the 100-H area, the higher water levels during 100-H operations may have provided a conduit and driver to push contamination deep.

Scott Worley is working on a decommissioning profile for these wells.

bob

From: Jackson, Ronald L
Sent: Tuesday, May 08, 2007 11:35 AM
To: Swanson, L Craig
Cc: Raidl, Robert F; Jackson, Ronald L; Wright, Christopher S
Subject: FW: Well Decommisioning
Importance: High

This is a hot button with Jim Hanson. When will the assessment be completed? Ron J

From: Wright, Christopher S
Sent: Tuesday, May 08, 2007 11:29 AM
To: Jackson, Ronald L
Subject: FW: Well Decommisioning

From: Jackson, Ronald L
Sent: Thursday, April 05, 2007 8:39 AM
To: Swanson, L Craig
Cc: Borghese, Jane V; Howard, Bonnie J; Wright, Christopher S; Jackson, Ronald L; Raidl, Robert F; Weekes, David C
Subject: RE: Well Decommisioning

Per RL suggestion, I am requesting that you schedule an assessment on the conditions of the wells and how we would decommissioning these wells. Please provide this information by end of April 2007. Thanks.

Ron Jackson

From: Morse, John G
Sent: Tuesday, April 03, 2007 7:11 AM
To: Hanson, James P; Howard, Bonnie J
Cc: Jackson, Ronald L; Charboneau, Briant L; Thompson, K M (Mike); Fletcher, Thomas W; Borghese, Jane V
Subject: RE: Well Decommisioning

I think we should check out the wells but delay any decommissioning until we have data from the new characterization wells that are being installed

---

From: Hanson, James P
Sent: Monday, April 02, 2007 6:36 PM
To: Howard, Bonnie J
Cc: Jackson, Ronald L; Charboneau, Briant L; Thompson, K M (Mike); Morse, John G; Fletcher, Thomas W; Borghese, Jane V
Subject: Well Decommisioning

Bonnie

DOE and FH met with Ecology today regarding groundwater characterization of the 100 Horn Area. In our discussion, two wells of concern were brought to our attention by Ecology. These are:

1.) 699-97-43
2.) 699-96-49

Both wells apparently have questionable performance AND were constructed not in accordance with GW Monitoring well regulations (old wells). The concern is that the wells, due to their original depth (100 ft), potentially provides a conduit between the upper and lower aquifers in this region. Bob Raidl is familiar with the wells. Ecology would like DOE to evaluate these wells for decommissioning. These wells have shown hexavalent chromium concetrations during monitoring events from 27-106 ppb. Discussions today report that the wells have been partially filled with cement to fill the lower portion of the casing.

In discussion with Briant Charboneau this evening, FH is still evaluating and identifying additional wells for decomminissioning to meet the FY07 target of 90. Briant would like FH to please evaluate the wells requested by Ecology that causes them concern. According to Ecology, the wells were described in an appendices of the 100-HR-3 Annual Report.

I will be out the rest of this week, so please contact Ron Jackson for further clarification.

Thanks again in advance,

Jim Hanson
DOE-RL
373-9068

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID A5360
WELL NAME 699-97-43
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING
EASTING
ELEVATION

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☐ ND*	WELL PAD	☐ YES ☑ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☐ ND*	BRASS SURVEY MARKER	☐ YES ☑ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☑ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☑ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL ID	☑ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL NAME	☑ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☐ ND*	PROTECTIVE POSTS	☐ YES ☑ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☐ ND*	REMOVABLE POST IN PLACE	☐ YES ☑ NO
WELL LOCK	☐ YES ☐ NO ☐ ND*	WELL LOCK	☑ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☐ ND*	WELL DAMAGED	☐ YES ☑ NO
WELL IS DRY	☐ YES ☐ NO ☐ ND*	WELL IS DRY	☐ YES ☑ NO
TED CASING	☐ YES ☐ NO ☐ ND*	PARTED CASING	☐ YES ☑ NO
NTONITE IN WELL	☐ YES ☐ NO ☐ ND*	BENTONITE IN WELL	☐ YES ☑ NO
ELL SANDED IN	☐ YES ☐ NO ☐ ND*	WELL SANDED IN	☐ YES ☑ NO
COLLAPSED CASING	☐ YES ☐ NO ☐ ND*	COLLAPSED CASING	☐ YES ☑ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☐ ND*	EQUIPMENT IN WELL	☐ YES ☑ NO
DEBRIS IN WELL	☐ YES ☐ NO ☐ ND*	DEBRIS IN WELL	☐ YES ☑ NO

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☐ ND*	PUMP ACTIVITY PERFORMED: Pump in well	☑ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☐ ND*	PUMP TESTED	☐ YES ☑ NO
NEW PUMP	☐ YES ☐ NO ☐ ND*	NEW PUMP	☐ YES ☑ NO
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	T.L. Hoffell
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	05/30/06
PUMP TYPE		PUMP TYPE	Elect Subm
PUMP MAKE		PUMP MAKE	N/A
PUMP MODEL		PUMP MODEL	N/A
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	N/A
TUBING SIZE (In)		TUBING SIZE (In)	1½ ABS
TUBING MATERIAL		TUBING MATERIAL	N/A
ING LENGTH (ft)		TUBING LENGTH (ft)	N/A
CONNECTION		TUBING CONNECTION	N/A

ND* - Not Documented
EHI-EE-231 (02/20/02)

1/24/2003

WELL ATTRIBUTES REPORT

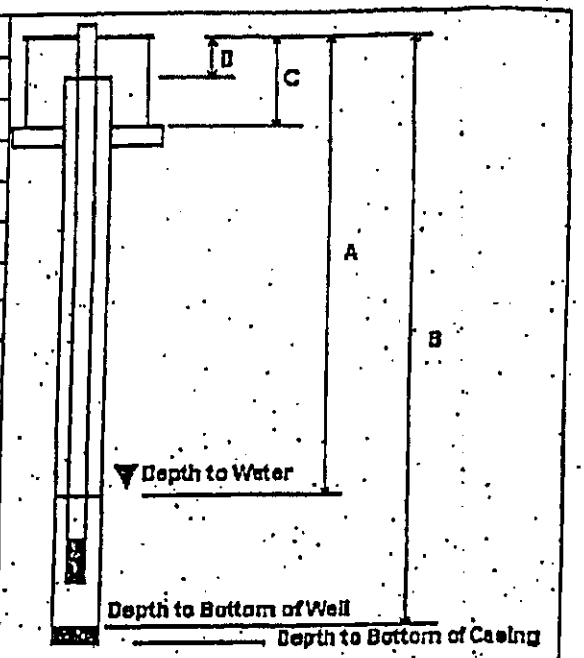
FIELD ORDER NO
WELL ID A5360
WELL NAME 699-97-43
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING
EASTING
ELEVATION

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		42.67
	DEPTH TO WATER DATE		05/30/06
B	DEPTH TO BOTTOM(ft)		57.10
	DEPTH TO BOTTOM DATE		05/30/06
C	STICK UP(ft)		1.81
D	REFERENCE MARK(ft)		T.O.C.
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☐ ND*	☒ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

HANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
K/R						

CHANGES West of 100 ft Area Couldn't see if well had Gay piezometer due to well plate.

SCREEN INFORMATION

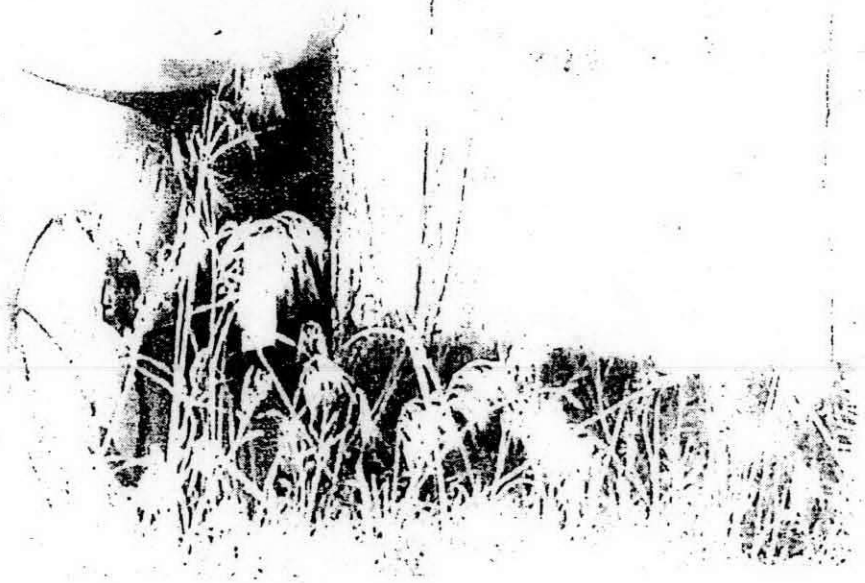
SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

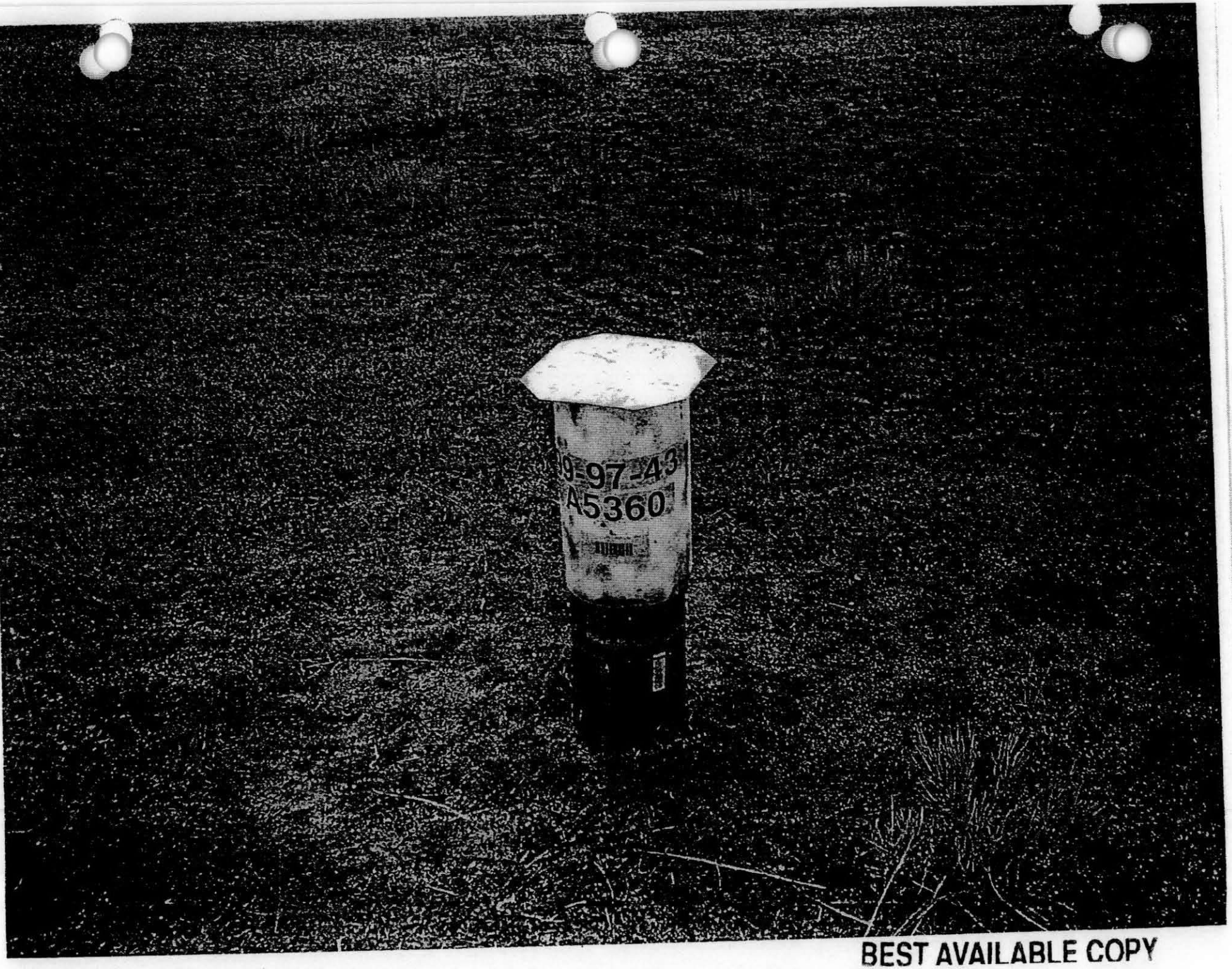
CHANGES

ND* - Not Documented
BHI-EE-231 (02/20/02)

1/24/2003

A5360
699-97-43






72-92
-325

699-97-43
699-96-49
699-99-42

specifies network and program monitoring that will satisfy groundwater protection standards of WAC 173-303-645."

31. Page 1.36, Section 1.4.7.4. At least two wells were constructed in 1962 in the area known as the "horn". Wells 699-97-43 and 699-96-49 were constructed with perforations extending across the Ringold/Hanford formation contact that separates the confined and unconfined aquifers. Well 699-96-49 was remediated in 1977 by cementing across the contact. Well 699-97-43 was remediated in 1976 by installing a cement plug from 83-100 ft. depth. However, the conduit from the Hanford unconfined aquifer to the deeper aquifer remains open. It is recommended that an additional issue be included which completes the remediation of well 699-97-43. The following wording is recommended for an additional issue: "Issue 14. Remediation of groundwater well 699-97-43 has not been completed (i.e., the conduit from the Hanford unconfined aquifer to the deeper aquifer remains open)." The following wording is recommended for an additional action: "Action 14-1. Complete remediation of groundwater well 699-97-43."

32. Page 1.36, Section 1.4.7.4. At least two wells were constructed in 1962 in the area known as the "horn". Wells 699-97-43 and 699-96-49 were constructed with perforations extending across the Ringold/Hanford formation contact that separates the confined and unconfined aquifers. Well 699-96-49 was remediated in 1977 by cementing across the contact. However, considering water level measurements, there is concern that the remediation (cement plug) may not be providing an effective seal between aquifers. Therefore, it is recommended that an additional issue be included which evaluates the effectiveness of the remediation of well 699-96-49. The following wording is recommended for an additional issue: "Issue 15. Remediation of groundwater well 699-96-49 occurred in 1977 by cementing across the confined and unconfined aquifer contact. Based on water level measurements, the effectiveness of the remediation is unknown." The following wording is recommended for an additional action: "Action 15-1. Evaluate the effectiveness of the 1977 remediation of well 699-96-49."

33. Page 1.36, Section 1.4.7.4. Well 699-99-42 may be an old farm well. The information provided in the Hanford Well Information System (HWIS) database indicates the well is a 12" pipe, the depth to bottom is 35 feet, and the well is dry. The HWIS also indicates that construction design is unknown. It is unknown if this well is providing a conduit for contaminant migration. It is recommended that this well be evaluated for decommissioning priority. The following wording is recommended for an additional issue: "Issue 16: Well 699-99-42 should be evaluated to determine its decommissioning priority." The following wording is recommended for an additional action: "Action 16-1. Decommission well 699-99-42 as prioritized."

WILL BE DECOMMISSIONED WHEN NEW WELLS (NC3) ARE DRILLED

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID A5360
WELL NAME 699-97-43
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING 153092.273
EASTING 576671.931
ELEVATION

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☐ ND*	WELL PAD	☐ YES ☒ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☐ ND*	BRASS SURVEY MARKER	☐ YES ☒ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☒ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☒ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL ID	☒ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL NAME	☒ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☐ ND*	PROTECTIVE POSTS	☐ YES ☒ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☐ ND*	REMOVABLE POST IN PLACE	☐ YES ☒ NO
WELL LOCK	☐ YES ☐ NO ☐ ND*	WELL LOCK	☒ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☐ ND*	WELL DAMAGED	☐ YES ☒ NO
WELL IS DRY	☐ YES ☐ NO ☐ ND*	WELL IS DRY	☐ YES ☒ NO
PARTED CASING	☐ YES ☐ NO ☐ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☐ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☐ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☐ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☐ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☐ ND*	DEBRIS IN WELL	☐ YES ☐ NO
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☐ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☐ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☐ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	DB Geologist
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	7/31/07
PUMP TYPE		PUMP TYPE	Submersible
PUMP MAKE		PUMP MAKE	ND
PUMP MODEL		PUMP MODEL	ND
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	ND
TUBING SIZE (In)		TUBING SIZE (In)	1 1/2"
TUBING MATERIAL		TUBING MATERIAL	ABS
TUBING LENGTH (ft)		TUBING LENGTH (ft)	ND
TUBING CONNECTION		TUBING CONNECTION	Threaded

ND* - Not Documented
BHI-EE-231 (02/10/02)

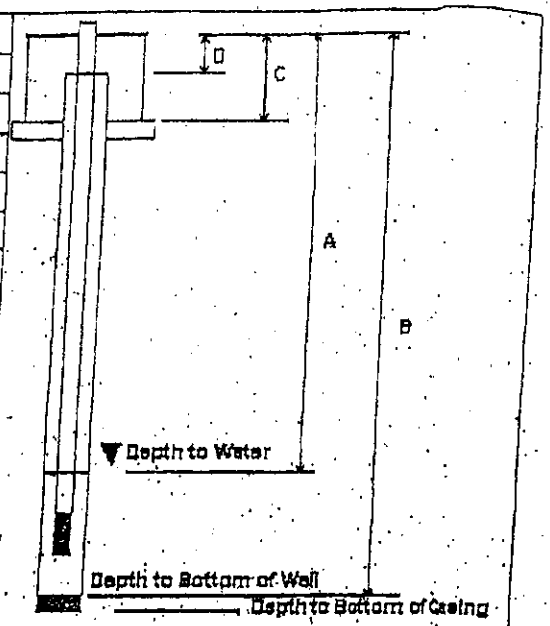
1/24/2003

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	
WELL ID	A5360	DRILL DATE		NORTHING	153090.273
WELL NAME	699-97-43	CONST DATE		EASTING	576671.931
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		41.91
	DEPTH TO WATER DATE		7/31/02
B	DEPTH TO BOTTOM(ft)		57.30
	DEPTH TO BOTTOM DATE		7/31/02
C	STICK UP(ft)		1.77
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☐ ND*	☑ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES This well is on the sampling list

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
8 x 8 5/8			C/S		welded	

CHANGES

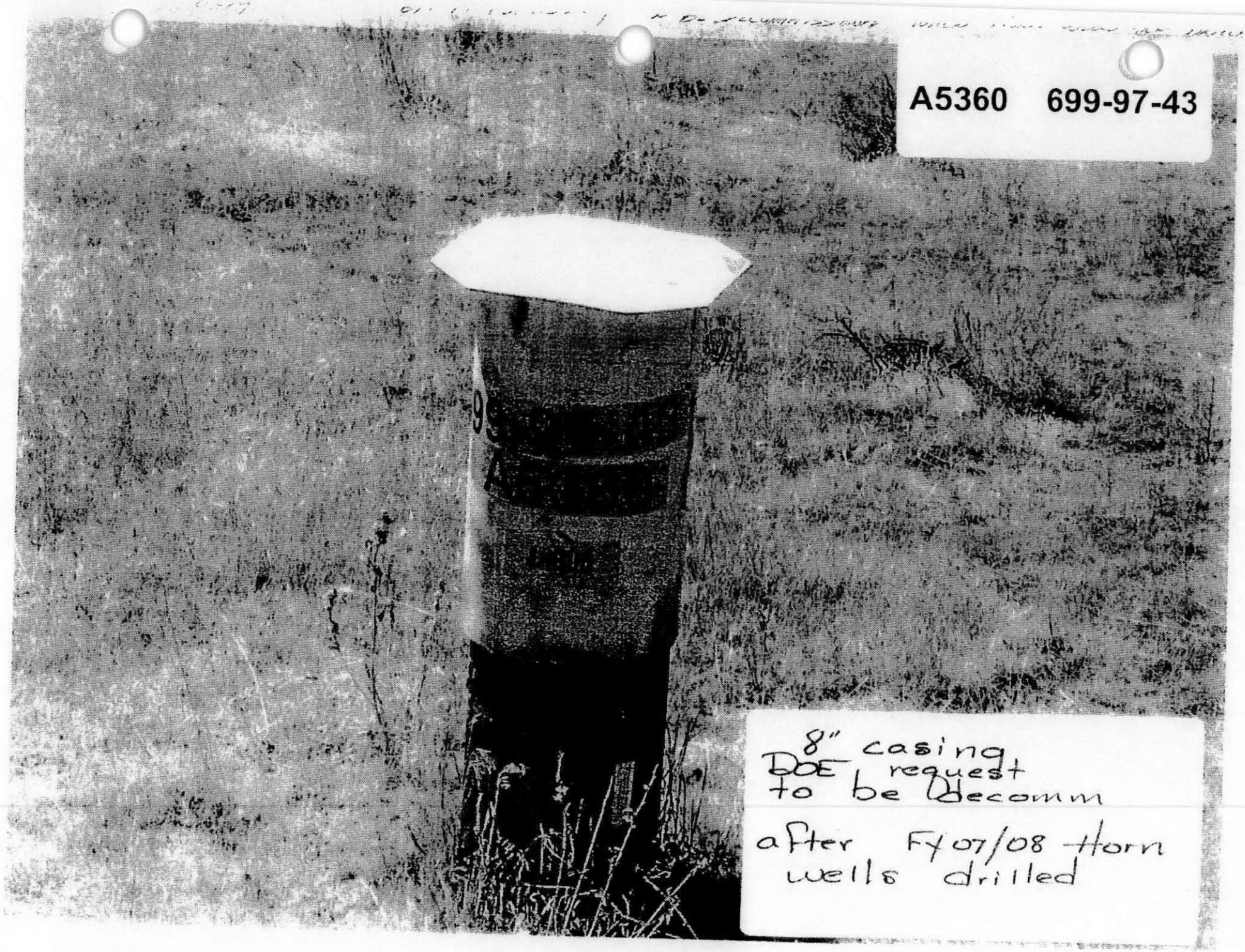
SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented
BHI-EE-231 (W/20/02)

1/24/2003


A5360 699-97-43
8" casing
DOE request
to be Decomm
after FY07/08 Horn
wells drilled

WELL ATTRIBUTES REPORT

OLD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9776			NORTHING	153090.273
WELL NAME	699-97-430	CONST DATE	12/31/1965	EASTING	576671.931
HOST WELL ID	A5360	CONST DEPTH	60	ELEVATION	129.723

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☑ ND* ☐ REMOVED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

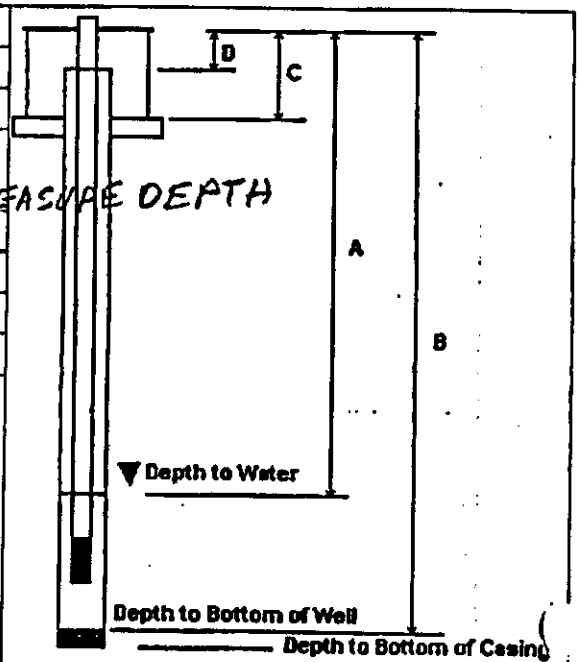
6/15/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9776			NORTHING	153090.273
WELL NAME	699-97-430	CONST DATE	12/31/1965	EASTING	576671.931
HOST WELL ID	A5360	CONST DEPTH	60	ELEVATION	129.723

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		43.05'
	DEPTH TO WATER DATE		3/14/2006
B	DEPTH TO BOTTOM(ft)	60	UNABLE TO MEASURE DEPTH
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

699-97-43P
A9777

WELL ATTRIBUTES REPORT

WELL ID	A9777	**NORTHING**	153090.273	**FIELD ORDER NO**	
WELL NAME	699-97-43P	**EASTING**	576671.931	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A5360	**ELEVATION**	129.723	**CONST DATE**	8/31/1963
GW OPERABLE UNIT	100-HR-3-H	**DRILL DATE**	10/12/1962	**CONST DEPTH**	90
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ MINOR ☐ NONE ☑ ND	SURFACE EROSION	☐ MAJOR ☐ MINOR ☐ NONE

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED ☑ ND	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	__/__/__
PUMP IN WELL	☐ YES ☐ NO ☑ ND	PUMP IN WELL	☐ YES ☐ NO
PUMP TESTED	☐ YES ☐ NO ☑ ND	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND	NEW PUMP	☐ YES ☐ NO
PUMP TYPE		PUMP TYPE	
PUMP MAKE		PUMP MAKE	
PUMP MODEL		PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	

LAST TUBING INFORMATION		CURRENT TUBING INFORMATION	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL		TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION		TUBING CONNECTION	

LAST MEASUREMENT INFORMATION		CURRENT MEASUREMENT INFORMATION	
DEPTH TO WATER(ft)		DEPTH TO WATER(ft)	
DEPTH TO WATER DATE		DEPTH TO WATER DATE	__/__/__
DEPTH TO BOTTOM(ft)	89	DEPTH TO BOTTOM(ft)	
DEPTH TO BOTTOM DATE		DEPTH TO BOTTOM DATE	__/__/__
STICK UP(ft)		STICK UP(ft)	
REFERENCE MARK(ft)		REFERENCE MARK(ft)	
REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND	REFERENCE MARK IS TOC	☐ YES ☐ NO

ND* - Not Documented

WELL ATTRIBUTES REPORT

WELL ID	A9777	**NORTHING**	153090.273	**FIELD ORDER NO**	
WELL NAME	699-97-43P	**EASTING**	576671.931	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A5360	**ELEVATION**	129.723	**CONST DATE**	8/31/1963
GW OPERABLE UNIT	100-HR-3-H	**DRILL DATE**	10/12/1962	**CONST DEPTH**	90
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

WELL ATTRIBUTES REPORT

WELL ID	A9777	**NORTHING**	153090.273	**FIELD ORDER NO**	
WELL NAME	699-97-43P	**EASTING**	576671.931	**LAST INSPECTION**	1/1/1801
HOST WELL ID	A5360	**ELEVATION**	129.723	**CONST DATE**	8/31/1963
GW OPERABLE UNIT	100-HR-3-H	**DRILL DATE**	10/12/1962	**CONST DEPTH**	90
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

PIEZOMETER P:

PIEZOMETER INFORMATION		
PIEZOMETER IS PRESENT	☐ YES	☐ NO
PIEZOMETER IS LABELED	☐ YES	☐ NO

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-96-49	152858.31	96384.90	419.26	100.0	P	8.0	28.0	96.0	PIEZOMETERS INSTALLED 6/77
GW	574851.56	-49215.60	8.0	100.0					
S			10/62	40.0					199-96-49
699-96-49O		96388.00	419.63	50.0	P	1.5	30.0	50.0	REMOVED
AB		-49232.00	1.5						
			12/65	37.0					
699-96-49P		96388.00	419.29	100.0	P	1.5	79.0	89.0	60 SLOT SCREEN; INSTALLED 6/77
GW		-49232.00	1.5	89.0	P	8.0	28.0	96.0	
			10/62	38.0					
699-96-52	152728.90	95966.00	414.72						DUG WELL
GW	574147.54	-51526.60	12.0						
				30.0					
699-96-52P		95982.00	412.52						
GW		-51568.00	1.5	36.0					
				30.0					
699-97-43	153090.52	97132.10	421.84	100.0	P	8.0	25.0	97.0	CEMENT PLUG AT 83 FT.
GW	576672.03	-43240.80	8.0	83.0					
S			10/62	43.0					199-97-43
699-97-43O		97143.00	422.10	60.0	P	1.5	40.0	60.0	REMOVED
AB		-43241.00	1.5	60.0					
			12/65	43.0					
699-97-43P		97143.00	422.10	90.0	P	1.5	70.0	90.0	REMOVED
AB		-43241.00	1.5	89.0					
			8/63	44.0					
699-97-47									DUG WELL
GW									
									REF.2 NO.141
699-97-48									
AB									FILLED IN
									14/26-13D1, N.RUN
699-97-51A						8.0	12.0	39.0	
GW									
S				[illegible]					199-97-51A, 699-97-50
									699-97-51, REF.2
699-97-51B	152981.72	96793.10	407.46	28.0					FILLED AROUND 12" CORR. LINER
GW	574436.89	-50575.20	12.0	31.0					
				22.0					14/26-14D1, 699-97-51A

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
A9777	699-97-43P	USACE(JECA)	NAD83(91)	01/15/1993	UNKNOWN	153090.273	576671.931	m	

Piekarski, Kenneth M

From: Howard, Bonnie J
Sent: Wednesday, May 09, 2007 8:10 AM
To: Piekarski, Kenneth M
Subject: FW: these are the wells of concern and the piezometers whose existence is also being questioned.

From: Worley, Scott H
Sent: Wednesday, May 09, 2007 8:02 AM
To: Howard, Bonnie J
Subject: RE: these are the wells of concern and the piezometers whose existence is also being questioned.

Bonnie,

For well 699-97-43, in 1976 the piezometers were removed and the well cleaned out. A cement plug was installed at 83'.

Scott Worley

From: Howard, Bonnie J
Sent: Tuesday, May 08, 2007 2:47 PM
To: Worley, Scott H
Cc: Wright, Christopher S; Howard, Bonnie J; Jackson, Ronald L; Raidl, Robert F
Subject: these are the wells of concern and the piezometers whose existence is also being questioned.

A5360	699-97-43	PIEZOMETER HOST	FY 2007 water level wells	IN-USE
A9776	699-97-43O	HOSTED PIEZOMETER	2006 Field Inspection host has pump. Plate obscures any piezos	UNKNOWN
A9777	699-97-43P	HOSTED PIEZOMETER	2006 Field Inspection host has pump. Plate obscures any piezos	UNKNOWN
A5358	699-96-49	PIEZOMETER HOST	FY 2007 water level wells	IN-USE
A9774	699-96-49O	HOSTED PIEZOMETER	2006 Field Inspection host has pump piezometer existswell is west of 100H NE of 100 D DTB 51.95 DTW 36.82	UNKNOWN
A9775	699-96-49P	HOSTED PIEZOMETER	FY 2007 water level wells	IN-USE

From: Worley, Scott H
Sent: Tuesday, May 08, 2007 2:01 PM
To: Howard, Bonnie J
Subject: FW: Well Decommisioning

From: Raidl, Robert F
Sent: Tuesday, May 08, 2007 11:47 AM
To: Jackson, Ronald L; Swanson, L Craig
Cc: Wright, Christopher S; Worley, Scott H

Subject: RE: Well Decommisioning

ALL
The wells in question were 699-96-49 and 699-97-43. They were drilled in 1962 to 100 ft and completed with perforated carbon steel casing across the RUM - Hanford contact, which was at about 65 ft in 96-49 and 50-55 ft in 97-43.

Well 699-96-49 was perforated and cemented from 60-70 (across the RUM-Hanford contact) and then backfilled to about 52 ft with sand, pea gravel and bentonite in 1992. This should have taken care of the contamination between aquifers issue.

Well 699-97-43 was plugged from 83-100 with cement in 1976 and then backfilled with sand, gravel and bentonite pellets in 1992. It was not pressure grouted.

The problem, as I see it, was that these wells were open across the RUM in 1967 when the huge infiltration test in the northern D area raised the static water level in 96-49 over 10 ft and may have driven chromium deeper into the aquifer. Likewise, in 97-43, which is near the 100-H area, the higher water levels during 100-H operations may have provided a conduit and driver to push contamination deep.

Scott Worley is working on a decommissioning profile for these wells.

bob

From: Jackson, Ronald L
Sent: Tuesday, May 08, 2007 11:35 AM
To: Swanson, L Craig
Cc: Raidl, Robert F; Jackson, Ronald L; Wright, Christopher S
Subject: FW: Well Decommisioning
Importance: High

This is a hot button with Jim Hanson. When will the assessment be completed? Ron J

From: Wright, Christopher S
Sent: Tuesday, May 08, 2007 11:29 AM
To: Jackson, Ronald L
Subject: FW: Well Decommisioning

From: Jackson, Ronald L
Sent: Thursday, April 05, 2007 8:39 AM
To: Swanson, L Craig
Cc: Borghese, Jane V; Howard, Bonnie J; Wright, Christopher S; Jackson, Ronald L; Raidl, Robert F; Weekes, David C
Subject: RE: Well Decommisioning

Per RL suggestion, I am requesting that you schedule an assessment on the conditions of the wells and how we would decommissioning these wells. Please provide this information by end of April 2007. Thanks.

Ron Jackson

From: Morse, John G
Sent: Tuesday, April 03, 2007 7:11 AM
To: Hanson, James P; Howard, Bonnie J
Cc: Jackson, Ronald L; Charboneau, Briant L; Thompson, K M (Mike); Fletcher, Thomas W; Borghese, Jane V
Subject: RE: Well Decommisioning

I think we should check out the wells but delay any decommissioning until we have data from the new characterization wells that are being installed

---

From: Hanson, James P
Sent: Monday, April 02, 2007 6:36 PM
To: Howard, Bonnie J
Cc: Jackson, Ronald L; Charboneau, Briant L; Thompson, K M (Mike); Morse, John G; Fletcher, Thomas W; Borghese, Jane V
Subject: Well Decommisioning

Bonnie

DOE and FH met with Ecology today regarding groundwater characterization of the 100 Horn Area. In our discussion, two wells of concern were brought to our attention by Ecology. These are:

1.) 699-97-43
2.) 699-96-49

Both wells apparently have questionable performance AND were constructed not in accordance with GW Monitoring well regulations (old wells). The concern is that the wells, due to their original depth (100 ft), potentially provides a conduit between the upper and lower aquifers in this region. Bob Raidl is familiar with the wells. Ecology would like DOE to evaluate these wells for decommissioning. These wells have shown hexavalent chromium concetrations during monitoring events from 27-106 ppb. Discussions today report that the wells have been partially filled with cement to fill the lower portion of the casing.

In discussion with Briant Charboneau this evening, FH is still evaluating and identifying additional wells for decomminissioning to meet the FY07 target of 90. Briant would like FH to please evaluate the wells requested by Ecology that causes them concern. According to Ecology, the wells were described in an appendices of the 100-HR-3 Annual Report.

I will be out the rest of this week, so please contact Ron Jackson for further clarification.

Thanks again in advance,

Jim Hanson
DOE-RL
373-9068

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID A5360
WELL NAME 699-97-43
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING
EASTING
ELEVATION

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☐ ND*	WELL PAD	☐ YES ☑ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☐ ND*	BRASS SURVEY MARKER	☐ YES ☑ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☑ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☑ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL ID	☑ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL NAME	☑ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☐ ND*	PROTECTIVE POSTS	☐ YES ☑ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☐ ND*	REMOVABLE POST IN PLACE	☐ YES ☑ NO
WELL LOCK	☐ YES ☐ NO ☐ ND*	WELL LOCK	☑ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☐ ND*	WELL DAMAGED	☐ YES ☑ NO
WELL IS DRY	☐ YES ☐ NO ☐ ND*	WELL IS DRY	☐ YES ☑ NO
RTED CASING	☐ YES ☐ NO ☐ ND*	PARTED CASING	☐ YES ☑ NO
NTONITE IN WELL	☐ YES ☐ NO ☐ ND*	BENTONITE IN WELL	☐ YES ☑ NO
ELL SANDED IN	☐ YES ☐ NO ☐ ND*	WELL SANDED IN	☐ YES ☑ NO
COLLAPSED CASING	☐ YES ☐ NO ☐ ND*	COLLAPSED CASING	☐ YES ☑ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☐ ND*	EQUIPMENT IN WELL	☐ YES ☑ NO
DEBRIS IN WELL	☐ YES ☐ NO ☐ ND*	DEBRIS IN WELL	☐ YES ☑ NO

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☐ ND*	PUMP ACTIVITY PERFORMED	☑ INSTALLED ☐ REPLACED ☐ REMOVED Pump in well
PUMP TESTED	☐ YES ☐ NO ☐ ND*	PUMP TESTED	☐ YES ☑ NO
NEW PUMP	☐ YES ☐ NO ☐ ND*	NEW PUMP	☐ YES ☑ NO
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	T L Hottell
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	05/30/06
PUMP TYPE		PUMP TYPE	Elect Subm
PUMP MAKE		PUMP MAKE	N/A
PUMP MODEL		PUMP MODEL	N/A
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	N/A
TUBING SIZE (in)		TUBING SIZE (in)	1½ ABS
TUBING MATERIAL		TUBING MATERIAL	N/A
BING LENGTH (ft)		TUBING LENGTH (ft)	N/A
G CONNECTION		TUBING CONNECTION	N/A

ND* - Not Documented
BHI-EE-231 (02/20/02)

1/24/2003

WELL ATTRIBUTES REPORT

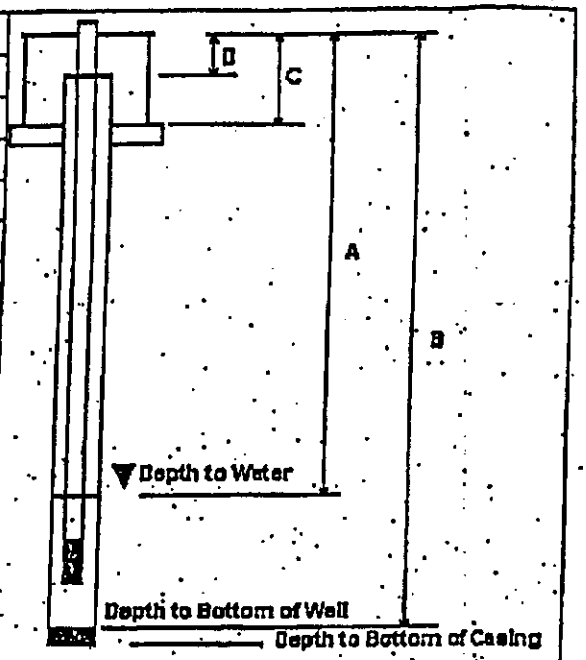
FIELD ORDER NO
WELL ID A5360
WELL NAME 699-97-43
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING
EASTING
ELEVATION

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		42.67
	DEPTH TO WATER DATE		05/30/06
B	DEPTH TO BOTTOM((ft)		57.10
	DEPTH TO BOTTOM DATE		05/30/06
C	STICK UP(ft)		1.81
D	REFERENCE MARK(ft)		T.O.C
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☐ ND*	☑ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

HANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
8 5/8						

CHANGES West of 100 ft Area. Couldn't see if well had gay piezometer due to well plate.

SCREEN INFORMATION

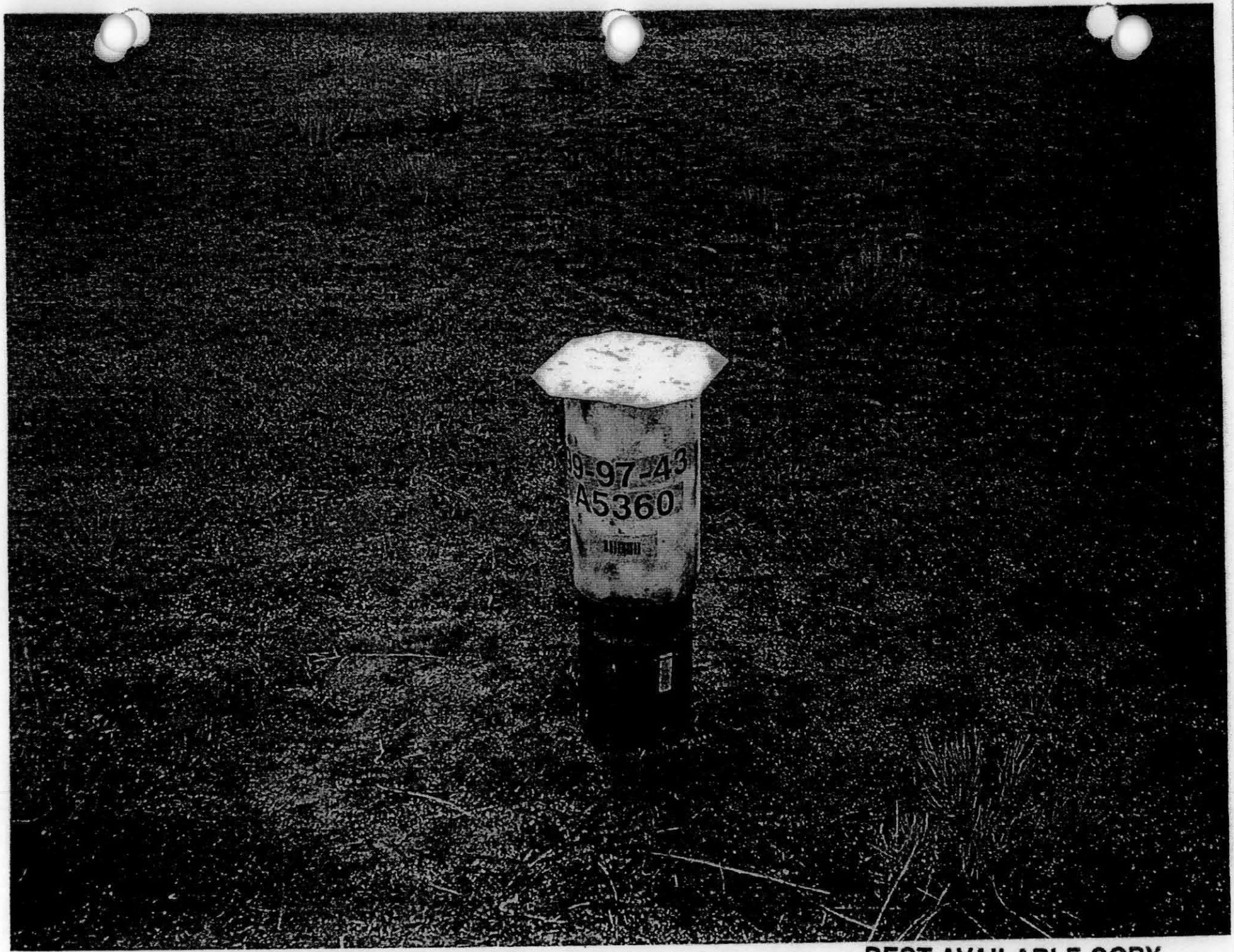
SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented
BHI-EE-231 (02/20/02)

1/24/2003

A5360
699-97-43



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72-92
325

699-97-43
699-96-49
699-99-42

specifies network and program monitoring that will satisfy groundwater protection standards of WAC 173-303-645."

31. Page 1.36, Section 1.4.7.4. At least two wells were constructed in 1962 in the area known as the "horn". Wells 699-97-43 and 699-96-49 were constructed with perforations extending across the Ringold/Hanford formation contact that separates the confined and unconfined aquifers. Well 699-96-49 was remediated in 1977 by cementing across the contact. Well 699-97-43 was remediated in 1976 by installing a cement plug from 83-100 ft. depth. However, the conduit from the Hanford unconfined aquifer to the deeper aquifer remains open. It is recommended that an additional issue be included which completes the remediation of well 699-97-43. The following wording is recommended for an additional issue: "Issue 14. Remediation of groundwater well 699-97-43 has not been completed (i.e., the conduit from the Hanford unconfined aquifer to the deeper aquifer remains open)." The following wording is recommended for an additional action: "Action 14-1. Complete remediation of groundwater well 699-97-43."

32. Page 1.36, Section 1.4.7.4. At least two wells were constructed in 1962 in the area known as the "horn". Wells 699-97-43 and 699-96-49 were constructed with perforations extending across the Ringold/Hanford formation contact that separates the confined and unconfined aquifers. Well 699-96-49 was remediated in 1977 by cementing across the contact. However, considering water level measurements, there is concern that the remediation (cement plug) may not be providing an effective seal between aquifers. Therefore, it is recommended that an additional issue be included which evaluates the effectiveness of the remediation of well 699-96-49. The following wording is recommended for an additional issue: "Issue 15. Remediation of groundwater well 699-96-49 occurred in 1977 by cementing across the confined and unconfined aquifer contact. Based on water level measurements, the effectiveness of the remediation is unknown." The following wording is recommended for an additional action: "Action 15-1. Evaluate the effectiveness of the 1977 remediation of well 699-96-49."

33. Page 1.36, Section 1.4.7.4. Well 699-99-42 may be an old farm well. The information provided in the Hanford Well Information System (HWIS) database indicates the well is a 12" pipe, the depth to bottom is 35 feet, and the well is dry. The HWIS also indicates that construction design is unknown. It is unknown if this well is providing a conduit for contaminant migration. It is recommended that this well be evaluated for decommissioning priority. The following wording is recommended for an additional issue: "Issue 16: Well 699-99-42 should be evaluated to determine its decommissioning priority." The following wording is recommended for an additional action: "Action 16-1. Decommission well 699-99-42 as prioritized."

WILL BE DECOMMISSIONED WHEN NEW WELLS (NC3) ARE DRILLED

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID A536
WELL NAME 699-97-43
HOST WELL ID

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING 153090.273
EASTING 576671.931
ELEVATION

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☐ ND*	WELL PAD	☐ YES ☑ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☐ ND*	BRASS SURVEY MARKER	☐ YES ☑ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☑ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☐ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☑ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL ID	☑ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☐ ND*	WELL LABELED WITH WELL NAME	☑ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☐ ND*	PROTECTIVE POSTS	☐ YES ☑ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☐ ND*	REMOVABLE POST IN PLACE	☐ YES ☑ NO
WELL LOCK	☐ YES ☐ NO ☐ ND*	WELL LOCK	☑ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☐ ND*	WELL DAMAGED	☐ YES ☑ NO
WELL IS DRY	☐ YES ☐ NO ☐ ND*	WELL IS DRY	☐ YES ☑ NO
PARTED CASING	☐ YES ☐ NO ☐ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☐ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☐ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☐ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☐ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☐ ND*	DEBRIS IN WELL	☐ YES ☐ NO

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☐ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☐ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☐ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	DB Geologists
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	7/31/07
PUMP TYPE		PUMP TYPE	Submersible
PUMP MAKE		PUMP MAKE	ND
PUMP MODEL		PUMP MODEL	ND
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	ND
TUBING SIZE (In)		TUBING SIZE (In)	1.2
TUBING MATERIAL		TUBING MATERIAL	HDPE
TUBING LENGTH (ft)		TUBING LENGTH (ft)	ND
TUBING CONNECTION		TUBING CONNECTION	Threaded

ND* - Not Documented
BHI-EE-231 (02/20/02)

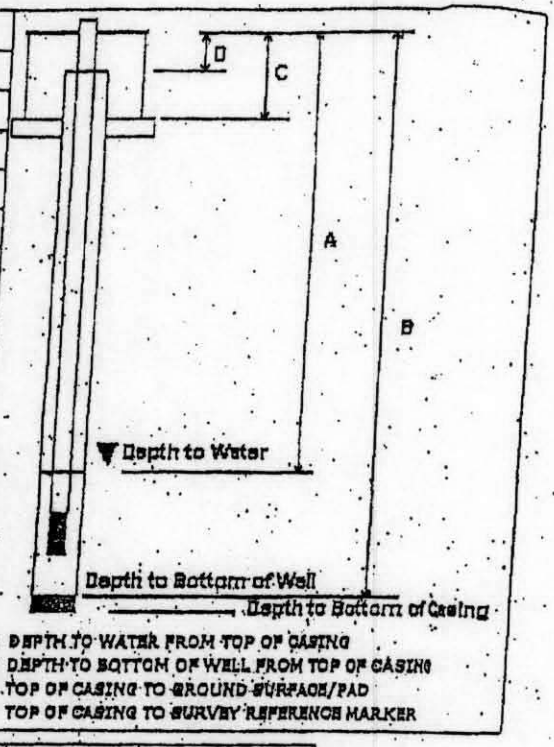
1/24/2003

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	
WELL ID	A5360	DRILL DATE		NORTHING	153090.273
WELL NAME	699-97-43	CONST DATE		EASTING	576671.931
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		91.91
	DEPTH TO WATER DATE		7/31/02
B	DEPTH TO BOTTOM(ft)		57.30
	DEPTH TO BOTTOM DATE		7/31/02
C	STICK UP(ft)		1.77
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☐ ND*	☑ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES This well is on the sampling list

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
8"x8"Ø			C/S		welded	

CHANGES

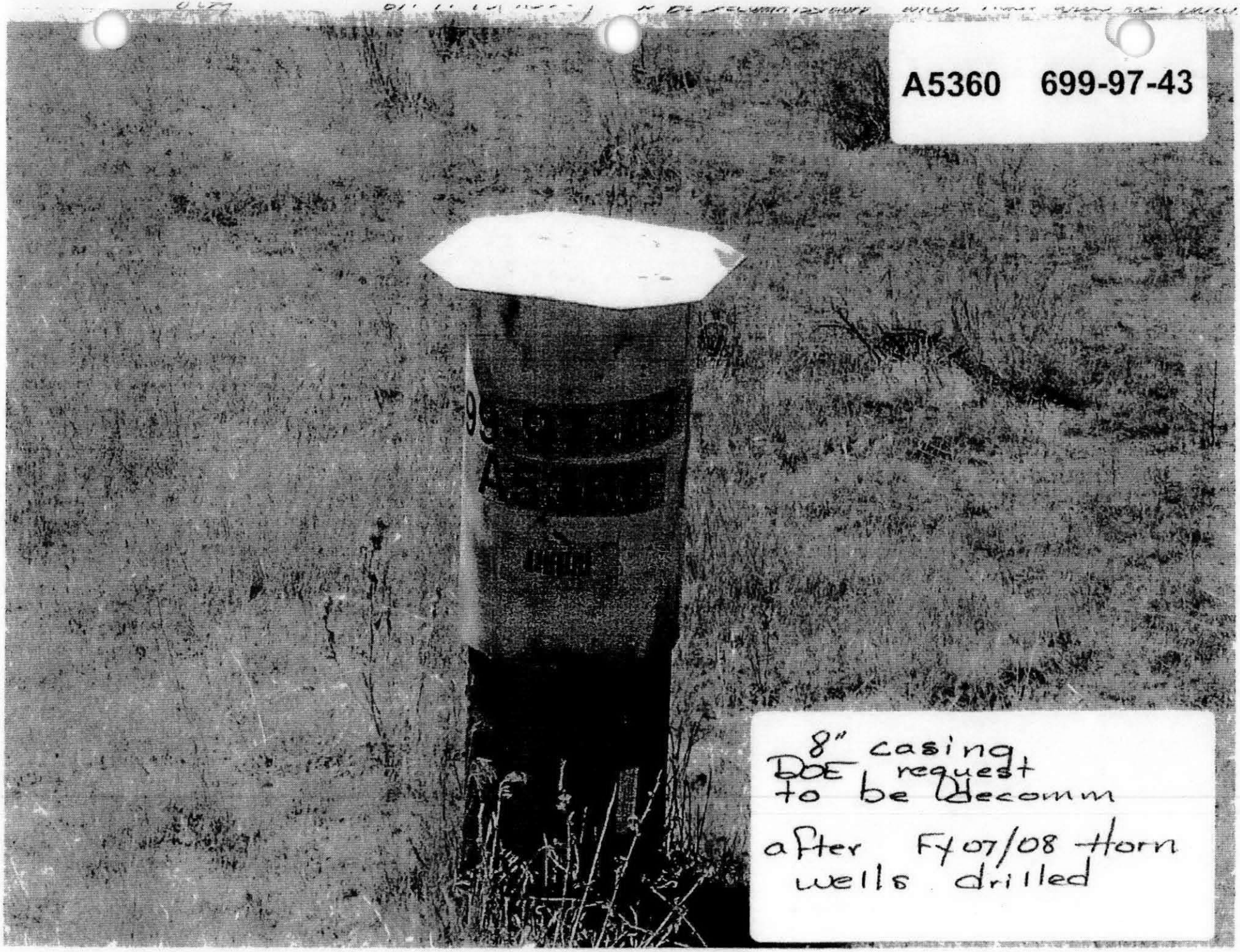
SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented
BHI-EE-231 (08/20/02)

1/24/2003


A5360 699-97-43
8" casing
DOE request
to be decomm
after FY07/08 Horn
wells drilled

699-97-52
A9094

WELL ATTRIBUTES REPORT

ELD ORDER NO				**LAST INSPECTION**	1/1/1801
ELL ID	A9094			**NORTHING**	
VELL NAME	699-97-52	**CONST DATE**		**EASTING**	
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
LAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
EBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
IBING LENGTH (ft)		TUBING LENGTH (ft)	
ING CONNECTION	ND*	TUBING CONNECTION	

: Documented

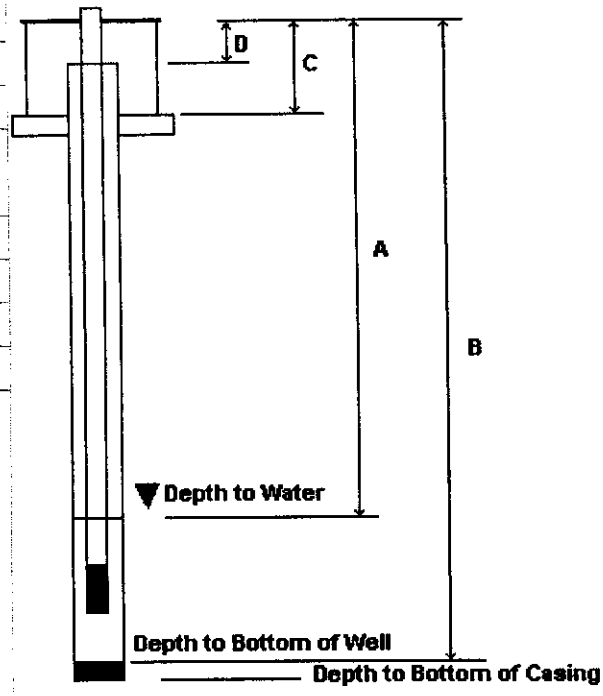
1/13/2006

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9094			NORTHING	
WELL NAME	699-97-52	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

1/13/2006

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-97-52 AB			5/43	37.0					FILLED IN RANNEY TH#9 DUG WELL BACK FILLED
				40.0 26.0 20.0					14/26-14A1, 199-98-49A 699-98-49
									FILLED IN
UN									14/26-15A1
699-98-54B UN			412.00 36.0	40.0					NOT LOCATED 14/26-10R1
699-98-54C UN									NOT LOCATED 14/26-10Q1
699-99-42 GW B	98944.00 -41606.00		412.88 12.0	39.0 36.0 37.0					DUG WELL 14/27-7N1, REF.2
699-100-43 AB			405.00 36.0	40.0					FILLED IN 14/26-12J1, REF.2
699-100-54 AB			402.00 36.0	28.0					FILLED IN 14/26-11M1
699-101-48A GW	101465.00 -47884.00		389.29 6.0 5/43	50.0 47.0	P	6.0	42.5	47.0	SCREEN 42.5-47 HR-6
699-101-48B GW S	101454.00 -47787.00		390.15 6.0 5/43	48.0 47.0 7.0	P	6.0	43.0	47.0	SCREEN 43-47 HR-7
699-101-48C GW	101476.00 -47985.00		388.59 6.0 5/43	77.0 55.0	P	6.0	43.0	47.0	SCREEN 43-47 699-101-48D, HR-5

Hanford Wells
PNL-8800 UC-903
M.A.Chamness & J.K. Merz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9094	699-97-52	-- No information available --								

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	S
A9094	699-97-52	05/31/1943		37	ft		

None of the following records for this well exist in the Hanford Well Information System:

Coordinates, As-built Diagram, Well Completion Report, Drillers Log, Water Well Report, Well Summary Report

Because there are no substantive records confirming this well's existence, it should be Administratively Decommissioned.

TEST WELL #9

24E, NW 1/4 of Section #14
from Columbia River

- 20' Boulders, cobbles, with sand filling the openings
- 29' Coarse gravel, cobbles and scattered boulders
- 30½' Clay cemented sand and gravel
- 31½' Clay bound boulders
- 37' Grey silt

ith bottom at 29' - 5-25-43
hole 27' 3"
installed and hole left for observations

699-103-53A
A9105

WELL ATTRIBUTES REPORT

WELL ID	A9105	**NORTHING**	154733	**FIELD ORDER NO**	
WELL NAME	699-103-53A	**EASTING**	573406	**LAST INSPECTION**	1/1/1801
HOST WELL ID		**ELEVATION**	133.039	**CONST DATE**	
GW OPERABLE UNIT		**DRILL DATE**		**CONST DEPTH**	

PROGRAMS

WASTE SITES 50FT

WM PLAN(S)

WASTE STORAGE(S)

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☑ ND ☐ MINOR ☐ NONE	SURFACE EROSION	☐ MAJOR ☐ MINOR ☐ NONE
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☑ ND ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	__/__/__
PUMP IN WELL	☐ YES ☐ NO ☑ ND	PUMP IN WELL	☐ YES ☐ NO
PUMP TESTED	☐ YES ☐ NO ☑ ND	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND	NEW PUMP	☐ YES ☐ NO
PUMP TYPE		PUMP TYPE	
PUMP MAKE		PUMP MAKE	
PUMP MODEL		PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
LAST TUBING INFORMATION		**CURRENT TUBING INFORMATION**	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL		TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION		TUBING CONNECTION	
LAST MEASUREMENT INFORMATION		**CURRENT MEASUREMENT INFORMATION**	
DEPTH TO WATER(ft)		DEPTH TO WATER(ft)	
DEPTH TO WATER DATE		DEPTH TO WATER DATE	__/__/__
DEPTH TO BOTTOM(ft)		DEPTH TO BOTTOM(ft)	
DEPTH TO BOTTOM DATE		DEPTH TO BOTTOM DATE	__/__/__
STICK UP(ft)		STICK UP(ft)	
REFERENCE MARK(ft)		REFERENCE MARK(ft)	
REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND	REFERENCE MARK IS TOC	☐ YES ☐ NO

WELL ATTRIBUTES REPORT

WELL ID	A9105	**NORTHING**	154733	**FIELD ORDER NO**	
WELL NAME	699-103-53A	**EASTING**	573406	**LAST INSPECTION**	1/1/1801
HOST WELL ID		**ELEVATION**	133.039	**CONST DATE**	
GW OPERABLE UNIT		**DRILL DATE**		**CONST DEPTH**	

PROGRAMS

WASTE SITES 50FT

WM PLAN(S)

WASTE STORAGE(S)

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-102-48		101550.00	390.00	56.0					CASING REMOVED
AB		-47790.00	6.0						699-101-48C, HR-8
			5/43						
699-103-25			675.94	378.0					USBR
OS									
			12/80						14/27-3P1
699-103-53A			433.00	57.0					FILLED IN
AB			5.0						14/26-10A1
699-103-53B									FILLED IN
AB									14/26-2N1
699-105-1									STOCK WELL BY CORRAL
OS									14/28-5H1
699-107-79									ARMY WELL 410-2
OS									14/25-1D1, PSN
			5/52	195.0					
699-108-20			685.00	630.0					ARMY WELL
OS									14/27-2C1
699-111-24		111000.00	699.14	631.0	P	20.0	244.0	354.0	ARMY WELL
GW		-24000.00	20.0						500-1, PSN-500
			2/52	282.0					
699-112-37		111737.00	741.82	1140.0	P	16.0	876.0	879.0	PERF. 982-1115 FT., ARMY WELL
GW		-36569.00	16.0						15/27-32E1, 699-113-38, PSN
			11/53						
699-114-11			836.00	95.0					USBR
OS									15/27-36A
			12/66						
699-114-127		114112.00	935.79	5002.0					WELL FILLED WITH ROCK
OS		-127084.00	2.0						DH-5
			2/72						
699-115-7		115430.00	936.78	4776.0					PARTIALLY CAVED IN; TOOLS ABANDONED IN WELL
OS		-7238.00	2.0						699-117-10, DH-4
			11/71						

Hanford Wells
PNL-8800 UC-903
M. A. Chamness & J. K. Merz
August 1993
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HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9105	699-103-53A	BHI	NAD83(91)	01/01/1801	ESTIMATED	154733	573406	m	P	

well decomm.
see survey scan, BTA, & photo
Eng 12/10/07

WELL ATTRIBUTES REPORT

FIELD ORDER NO				**LAST INSPECTION**	1/1/1801
WELL ID	**A9105**			**NORTHING**	154733
WELL NAME	**699-103-53A**	**CONST DATE**		**EASTING**	573406
HOST WELL ID		**CONST DEPTH**		**ELEVATION**	133.039

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
OLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
QUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☑ ND* ☐ REMOVED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
UBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

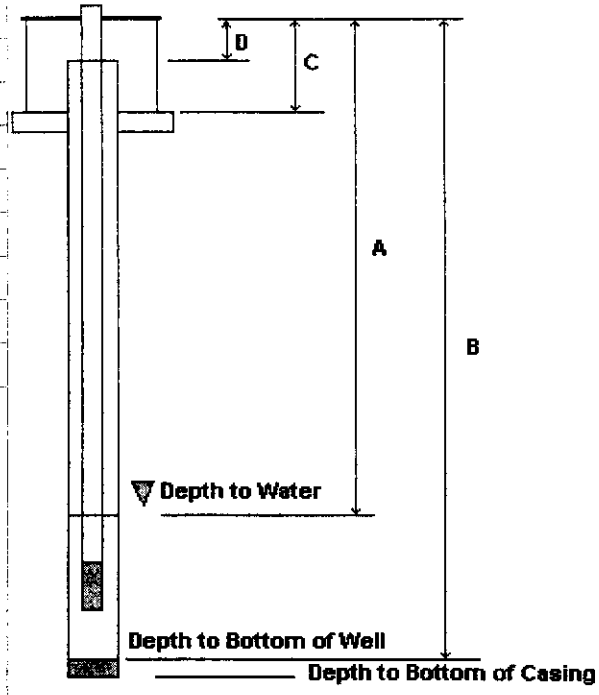
Well Document.
ECC 12/10/07

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9105			NORTHING	154733
WELL NAME	699-103-53A	CONST DATE		EASTING	573406
HOST WELL ID		CONST DEPTH		ELEVATION	133.039

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		N/A
	DEPTH TO BOTTOM DATE		
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

7/28/2006

SURVEY DATA REPORT

Request No.	
081-035	

Project No.	Title:	File No.
A	Well Decommissioning Program / A9105 (699-103-53A)	6AT14R26

Job No.	Prepared By	Date	Reviewer	Page
65400811.1225400 CA10	S. Wray	12/03/07	Tony Hunter	1 of 1

DESCRIPTION OF WORK	DISTRIBUTION	SDR	PLOT	DWG
Stake / Investigate location of Well A9105 (699-103-53A) at coordinates given and report if above ground evidence exists.	Survey File	OR		
	B.J. Howard	1		
Horizontal Datum: WCS83S/91 (Meters)	E.C. Rafuse	1		
	G.G. Kelty	1		
Equipment Used: Trimble GPS 5800 RTK	E.E. Oliver	1		
	S.H. Worley	1		

SURVEY RESULTS AND COMMENTS

Well ID	Coordinates Given	Description
A9105	N 154733.00, E 573406.00	Set Hub & Lath at given coordinates. No evidence of well visible.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT

Request No.:	File No. :
081-094	600N-001

Project No.:	Title:	Page
NA	Well Decommissioning: Scan for Well A9105	1 of 1

Job No.:	Prepared by:	Date:	Reviewer:
65400811.1225400 / CA10	S. Wray	12/5/07	Larry Henke

DESCRIPTION OF WORK:

Performed a ground scan (20' x 20' area) at staked well location A9105

DISTRIBUTION	SDR	SKETCH	DWG
Survey File	OR	OR	
B.J. Howard	1		
E.C. Rafuse	1		
S.H. Worley	1		
G.G. Kelty	1		
E.E. Oliver	1		

DATE OF FIELD INVESTIGATION: 12/03/07

Weather: Temp 40°F Wind 20 MPH

☐ Cloudy ☐ Clear ☒ P. Cloudy ☐ Fog

Soil Conditions: ☒ Rocky ☐ Sandy ☐ Wet ☐ Dry

Depth of Investigation 5 feet

Equipment Used:

		Required Functional Checks Current/Completed
____	50/60 Hz detector (for energized lines)	☐
____	Radio Frequency Electromagnetics (RF)	☐
____	Ground Penetrating Radar (GPR)	☐
x	Other (identify) Magnetic Locator (Schonstedt)	☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation: As noted.

EQUIPMENT LIMITATIONS:

1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified that equipment limitations, soil /concrete conditions,utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees,staff and management for application of safety controls during excavation,cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Note: No evidence of well casing detected in scan area.

699-103534(A9105) HOKU AREA WELL DECOMM. 12/03/07

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A9105, Well Name: 699-103-53A					
A9105	-- No information available --				

699-103-53B
A9106

WELL DECOMM.
SEE SECURITY SCAN & DATA REPORT 12/12/07

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9106			NORTHING	155136
WELL NAME	699-103-53B	CONST DATE		EASTING	573798
HOST WELL ID		CONST DEPTH		ELEVATION	138.222

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND*	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND*	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND*	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND*	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND*	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND*	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND*	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND*	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND*	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND*	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND*	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND*	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR ☑ ND*	SURFACE EROSION	☐ MAJOR ☐ NONE ☐ MINOR

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED ☑ ND*	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ REPLACED ☐ REMOVED
PUMP TESTED	☐ YES ☐ NO ☑ ND*	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND*	NEW PUMP	☐ YES ☐ NO
ACTIVITY PEFORMED BY	ND*	ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	
PUMP TYPE	ND*	PUMP TYPE	
PUMP MAKE	ND*	PUMP MAKE	
PUMP MODEL	ND*	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL	ND*	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

7/28/2006

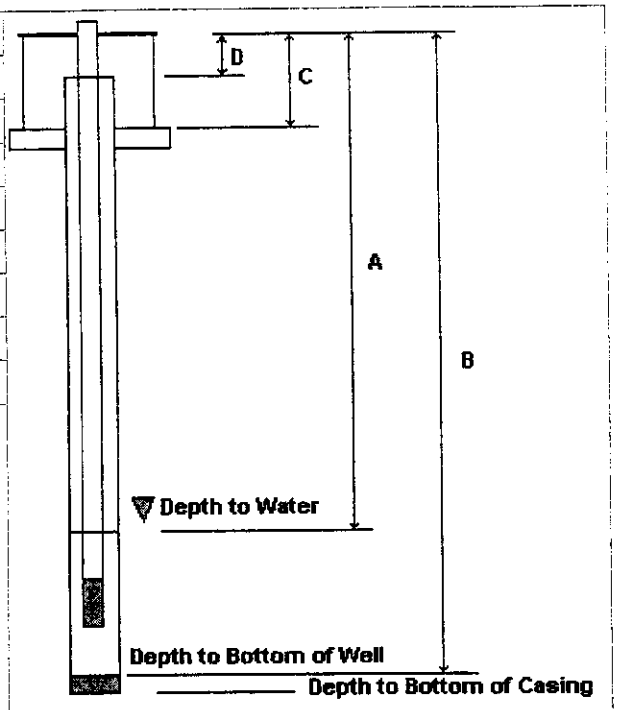
WELL DIAGRAM.

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9106			NORTHING	155136
WELL NAME	699-103-53B	CONST DATE		EASTING	573798
HOST WELL ID		CONST DEPTH		ELEVATION	138.222

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
	DEPTH TO WATER DATE		
B	DEPTH TO BOTTOM(ft)		
	DEPTH TO BOTTOM DATE		N/A
C	STICK UP(ft)		
D	REFERENCE MARK(ft)		
	REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND*	☐ YES ☐ NO



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

7/28/2006

WELL NAME / WELL TYPE / PUMP TYPE	COORDINATES L 83 NS/EW	COORDINATES PLANT NS/EW	CASING ELEV / WELL DIAM / DATE COMPL	DRILL DEPTH / COMPL DEPTH / DEPTH WATER	PERF/SCREEN TYPE	PERF/SCREEN DIAM	PERF/SCREEN TOP	PERF/SCREEN BOT	COMMENTS / PREVIOUS WELL NAMES
699-102-48 AB		101550.00 -47790.00	390.00 6.0 5/43	56.0					CASING REMOVED 699-101-48C, HR-8
699-103-25 OS			675.94 12/80	378.0					USBR 14/27-3P1
699-103-53A AB			433.00 5.0	57.0					FILLED IN 14/26-10A1
699-103-53B AB			450.00 36.0	68.0					FILLED IN 14/26-2N1
699-105-1 OS									STOCK WELL BY CORRAL 14/28-5H1
699-107-79 OS									ARMY WELL 410-2 14/25-1D1, PSN
699-108-20 OS									ARMY WELL 14/27-2C1
699-111-24 GW		111000.00 -24000.00	699.14 20.0 2/52	631.0 282.0	P	20.0	244.0	354.0	ARMY WELL 500-1, PSN-500
699-112-37 GW		111737.00 -36569.00	741.82 16.0 11/53	1140.0	P	16.0	876.0	879.0	PERF. 982-1115 FT., ARMY WELL 15/27-32E1, 699-113-38, PSN
699-114-11 OS			836.00 12/66	95.0					USBR 15/27-36A
699-114-127 OS		114112.00 -127084.00	935.79 2.0 2/72	5002.0					WELL FILLED WITH ROCK DH-5
699-115-7 OS		115430.00 -7238.00	936.78 2.0 11/71	4776.0					PARTIALLY CAVED IN; TOOLS ABANDONED IN WELL 699-117-10, DH-4

Hanford Wells
PNL-8800 UC-903
M. A. Chamness & J. K. Merz
August 1993
Prepared for U. S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9106	699-103-53B	BHI	NAD83(91)	01/01/1801	ESTIMATED	155136	573798	m	P	

SURVEY DATA REPORT

Request No.	
081-035	

Project No.	Title:	File No.
A	Well Decommissioning Program / A9106 (699-103-53B)	6AT14R26

Job No.	Prepared By	Date	Reviewer	Page
65400811.1225400 CA10	S. Wray	12/03/07	Larry Henke	1 of 1

DESCRIPTION OF WORK	DISTRIBUTION	SDR	PLOT	DWG
Stake / Investigate location of Well A9106 (699-103-53B) at coordinates given and report if above ground evidence exists.	Survey File	OR		
	B.J. Howard	1		
Horizontal Datum: WCS83S/91 (Meters)	E.C. Rafuse	1		
	G.G. Kelty	1		
Equipment Used: Trimble GPS 5800 RTK	E.E. Oliver	1		
	S.H. Worley	1		

SURVEY RESULTS AND COMMENTS

Well ID	Coordinates Given	Description
A9106	N 155136.00, E 573798.00	Note: Did not set Hub & Lath at given coordinates at time of survey. Position falls on steep side hill. No evidence of well visible.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT

Request No.: 081-094

Project No.:	Title:	File No. :
JA	Well Decommissioning: Scan @ Well A9106	600N-001

Job No.:	Prepared by:	Date:	Reviewer:	Page
65400811.1225400 / CA10	S. Wray	12/5/07	Larry Henke	1 of 1

DESCRIPTION OF WORK:

Unable to perform a ground scan at well location A9106. Location of well not staked due to position falling on steep side hill.

DISTRIBUTION	SDR	SKETCH	DWG
Survey File	OR	OR	
B.J. Howard	1		
E.C. Rafuse	1		
S.H. Worley	1		
G.G. Kelty	1		
E.E. Oliver	1		

DATE OF FIELD INVESTIGATION: 12/03/07

Weather: Temp 40°F Wind 20 MPH

☐ Cloudy ☐ Clear ☒ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☐ Sandy ☐ Wet ☐ Dry

Depth of Investigation _____ feet

Equipment Used:

	Required Functional Checks Current/Completed
_____ 50/60 Hz detector (for energized lines)	☐
_____ Radio Frequency Electromagnetics (RF)	☐
_____ Ground Penetrating Radar (GPR)	☐
_____ Other (identify)	☐

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation:

EQUIPMENT LIMITATIONS:

1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
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Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified that equipment limitations, soil /concrete conditions,utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees,staff and management for application of safety controls during excavation,cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Query HWIS again

' `ilable Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A9106, Well Name: 699-103-53B					
A9106	-- No information available --				

699-S36-13B
A9225

WELL ATTRIBUTES REPORT

WELL ID	A9225	**NORTHING**		**FIELD ORDER NO**	
WELL NAME	699-S36-13B	**EASTING**		**LAST INSPECTION**	1/1/1801
HOST WELL ID		**ELEVATION**		**CONST DATE**	
GW OPERABLE UNIT		**DRILL DATE**		**CONST DEPTH**	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	☐ YES ☐ NO ☑ ND	WELL PAD	☐ YES ☐ NO
BRASS SURVEY MARKER	☐ YES ☐ NO ☑ ND	BRASS SURVEY MARKER	☐ YES ☐ NO
MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH SURVEY DATA	☐ YES ☐ NO
MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO ☑ ND	MARKER STAMPED WITH WELL ID DATA	☐ YES ☐ NO
WELL LABELED WITH WELL ID	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL ID	☐ YES ☐ NO
WELL LABELED WITH WELL NAME	☐ YES ☐ NO ☑ ND	WELL LABELED WITH WELL NAME	☐ YES ☐ NO
PROTECTIVE POSTS	☐ YES ☐ NO ☑ ND	PROTECTIVE POSTS	☐ YES ☐ NO
REMOVABLE POST IN PLACE	☐ YES ☐ NO ☑ ND	REMOVABLE POST IN PLACE	☐ YES ☐ NO
WELL LOCK	☐ YES ☐ NO ☑ ND	WELL LOCK	☐ YES ☐ NO
WELL DAMAGED	☐ YES ☐ NO ☑ ND	WELL DAMAGED	☐ YES ☐ NO
WELL IS DRY	☐ YES ☐ NO ☑ ND	WELL IS DRY	☐ YES ☐ NO
PARTED CASING	☐ YES ☐ NO ☑ ND	PARTED CASING	☐ YES ☐ NO
BENTONITE IN WELL	☐ YES ☐ NO ☑ ND	BENTONITE IN WELL	☐ YES ☐ NO
WELL SANDED IN	☐ YES ☐ NO ☑ ND	WELL SANDED IN	☐ YES ☐ NO
COLLAPSED CASING	☐ YES ☐ NO ☑ ND	COLLAPSED CASING	☐ YES ☐ NO
EQUIPMENT IN WELL	☐ YES ☐ NO ☑ ND	EQUIPMENT IN WELL	☐ YES ☐ NO
DEBRIS IN WELL	☐ YES ☐ NO ☑ ND	DEBRIS IN WELL	☐ YES ☐ NO
SURFACE EROSION	☐ MAJOR ☑ ND ☐ MINOR ☐ NONE	SURFACE EROSION	☐ MAJOR ☐ MINOR ☐ NONE
LAST PUMP INFORMATION		**CURRENT PUMP INFORMATION**	
PUMP ACTIVITY PERFORMED	☐ INSTALLED ☑ ND ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED	PUMP ACTIVITY PERFORMED	☐ INSTALLED ☐ INSPECTED ☐ NONE ☐ REMOVED ☐ REPLACED ☐ REPAIRED
ACTIVITY PEFORMED BY		ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	__/__/____
PUMP IN WELL	☐ YES ☐ NO ☑ ND	PUMP IN WELL	☐ YES ☐ NO
PUMP TESTED	☐ YES ☐ NO ☑ ND	PUMP TESTED	☐ YES ☐ NO
NEW PUMP	☐ YES ☐ NO ☑ ND	NEW PUMP	☐ YES ☐ NO
PUMP TYPE		PUMP TYPE	
PUMP MAKE		PUMP MAKE	
PUMP MODEL		PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
LAST TUBING INFORMATION		**CURRENT TUBING INFORMATION**	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL		TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION		TUBING CONNECTION	
LAST MEASUREMENT INFORMATION		**CURRENT MEASUREMENT INFORMATION**	
DEPTH TO WATER(ft)		DEPTH TO WATER(ft)	
DEPTH TO WATER DATE		DEPTH TO WATER DATE	__/__/____
DEPTH TO BOTTOM(ft)		DEPTH TO BOTTOM(ft)	
DEPTH TO BOTTOM DATE		DEPTH TO BOTTOM DATE	__/__/____
STICK UP(ft)		STICK UP(ft)	
REFERENCE MARK(ft)		REFERENCE MARK(ft)	
REFERENCE MARK IS TOC	☐ YES ☐ NO ☑ ND	REFERENCE MARK IS TOC	☐ YES ☐ NO

ND* - Not Documented

WELL ATTRIBUTES REPORT

WELL ID	A9225	**NORTHING**		**FIELD ORDER NO**	
WELL NAME	699-S36-13B	**EASTING**		**LAST INSPECTION**	1/1/1801
HOST WELL ID		**ELEVATION**		**CONST DATE**	
GW OPERABLE UNIT		**DRILL DATE**		**CONST DEPTH**	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9225	699-S36-13B	-- No information available --								

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A9225, Well Name: 699-S36-13B					
A9225	-- No information available --				