AR TARGET SHEET

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

EDMC#: 0076457
SECTION: 3 of 3

DOCUMENT #: 08-AMCP-0123

TITLE: ADMINISTRATIVE DECOMMISSIONING FOR WELLS WITH SURVEYS

299-W15-88
A7388

WELL ATTRIBUTES REPORT

TELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7388			NORTHING	
ELL NAME	299-W15-88	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
OLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
IPMENT 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)	
ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

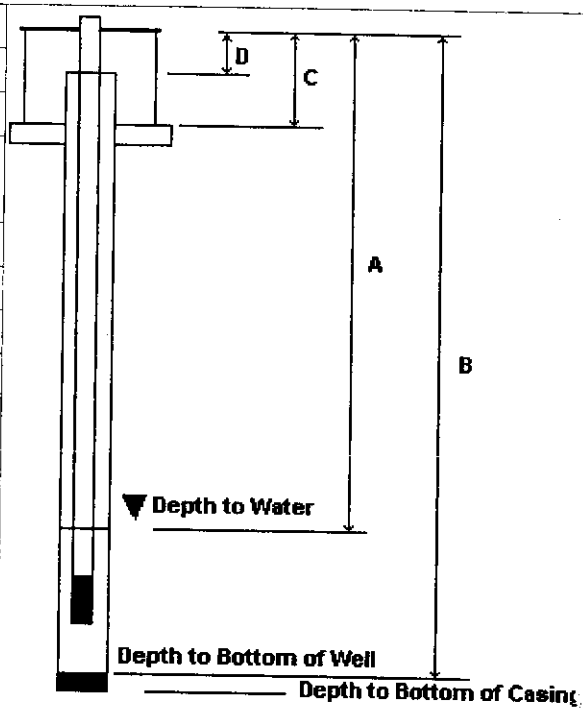
7/18/2005

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7388			NORTHING	
WELL NAME	299-W15-88	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)	26	
	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

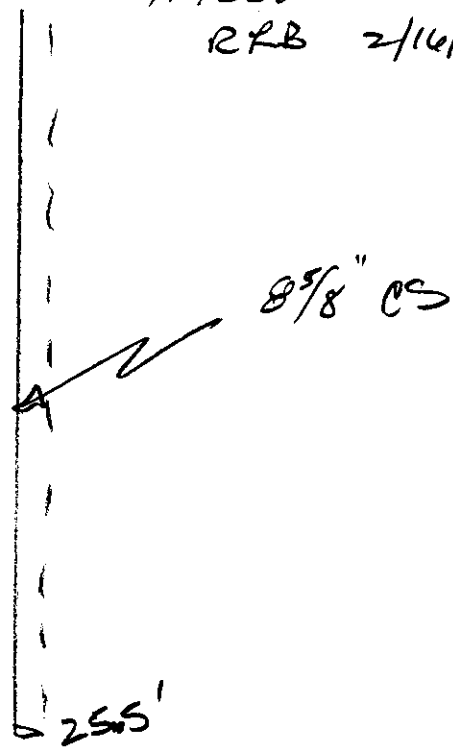
SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented

7/18/2005

A 7388
RRB 2/16/05



299-W15-88
CT 12/19/48

not to scale

Test Holes

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
299-W15-82		39860.00	660.09	101.0					
VW		-75810.00	8.0	98.0					
			10/54						2904 NO.1
299-W15-84		39860.00	669.82	110.0					
VW		-76000.00	8.0	106.0					
			10/54						2904 NO.3
299-W15-85		39970.00	664.11	106.0					
VW		-75910.00	8.0	103.0					
			10/54						2904 NO.4
299-W15-86		39790.00	661.22	144.0					6" TO 142 FT., GROUTED
VW		-75958.00	8.0	136.0					
			8/57						
299-W15-87			670.00	26.0					
VW			8.0	26.0					
			12/48						241-TX-1T.H.
299-W15-88			670.00	26.0					
VW			8.0	26.0					
			12/48						241-TX-2T.H.
			00	27.0					
			0	27.0					
			48						241-TX-3T.H.
			00	28.0					
				28.0					
			48						241-TX-4T.H.
			00	150.0					
				150.0					
			10/47						241-TX-13
299-W15-92			670.00	150.0					
VW				150.0					
			10/47						241-TX-14
299-W15-93			670.00	150.0					
VW				150.0					
			10/47						241-TX-15
299-W15-95		39930.00	660.00	100.0					
VW		-75925.00	8.0	100.0					
			1/59						

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

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7388	299-W15-88	12/31/1948		26	ft		

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7388	299-W15-88	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

HW-6.287

Test Holes

299-W15-83 DRILLING LOG

PROJECT NO. D-28493

Rig No. HO-22-3127

Well No. 241-TX-1 & 2

Driller Rumley

Foreman Russell

299-W15-88

A7388

Date 12-17-48

Shift # 2

Depth beginning of Shift (26' on # 1) 0'

Depth completion of Shift (26' on # 1) 18'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48-8:30	Going to 200 west and dressing in.
					8:30-9:30	Trying to start up rig.
					9:30-11:00	Mixing and bailing out.
					11:00-12:00	Moving rig and setting up on well No. 2
					12:00-12:30	Lunch
12:30-1:00	5'	Sand, rocks and gravel.			WELL NO. 1 COMPLETED	299-W15-8
1:00-1:45	10'	"	" "	"		
1:45-2:25	15'	"	" "	"		
2:25-3:15	18'	"	" "	"		
					3:15-3:30	Servicing rig.
					3:30-4:00	Dressing out and going to 200 East.

REMARKS

Drilling easy in sand, gravel and some rocks from 0' to 18'. Water staying and can get from 5' to 18' of open hole without it caving.

HW-6.267

Test holes

DRILLING LOG

PROJECT NO. D-28493

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Russell

299-W15-88
A7388

Date 12-20-48
Shift #2
Depth beginning of Shift 18'
Depth completion of Shift 25'6".

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:30	Dressing in and driving to 200-W.
					8:30 to 8:45	Mixing and bailing out
8:45 to 9:10	20'			Coarse sand, gravel and rocks		
9:10 to 9:45	22'			Coarse sand, gravel and rocks		
					9:45 to 10:00	Bailing
					10:00 to 10:20	Putting in starter casing. Total 15'.
					10:20 to 10:35	Welding 6' casing. Total 21'.
					10:35 to 10:40	Driving casing
					10:40 to 10:50	Welding 6' casing. Total 27'.
					10:50 to 10:55	Driving casing
10:55 to 12:00	25'6".			Coarse sand, gravel and rocks		
					12:00 to 12:30	Lunch

REMARKS

Drilling easy in coarse sand, gravel and rocks from 18' to 25'6". Water staying and easy to bail out sludge and hole caving some. Casing driving easy.

HW-6.287

DRILLING LOG

Test holes

PROJECT NO. D-28493

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Russell

299-W15-88
A7388

Date 12-20-48
Shift #2
Depth beginning of Shift 18'
Depth completion of Shift 25'6"

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					12#30 to 1:00	Mixing and bailing
					1:00 to 1:30	Moving rig to # 3

REMARKS

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7388, Well Name: 299-W15-88					
A7388	NA	DLG	1948-12-17 00:00:00.0	DRILL LOG (KEH)	NA
A7388	NA	DLG	1948-12-17 00:00:00.0	DRILL LOG (KEH)	NA

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7388	299-W15-88	-- No information available --						

299-W15-89
A7389

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7389			NORTHING	
ELL NAME	299-W15-89	CONST DATE		EASTING	
ST 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
LLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
IPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
RIS 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	

- Not Documented

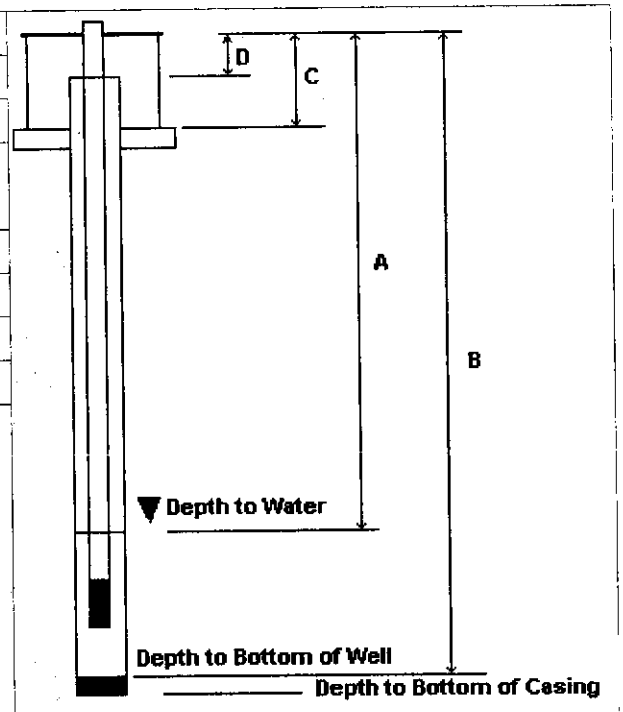
7/18/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7389			NORTHING	
WELL NAME	299-W15-89	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)	27	
	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

7/18/2005

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
299-W15-82		39860.00	660.09	101.0					
VW		-75810.00	8.0	98.0					2904 NO.1
			10/54						
299-W15-84		39860.00	669.82	110.0					
VW		-76000.00	8.0	106.0					2904 NO.3
			10/54						
299-W15-85		39970.00	664.11	106.0					
VW		-75910.00	8.0	103.0					2904 NO.4
			10/54						
299-W15-86		39790.00	661.22	144.0					6" TO 142 FT., GROUTED
			1.0	136.0					
			3/57						
			1.00	26.0					
			1.0	26.0					241-TX-1T.H.
			2/48						
			1.00	26.0					
			1.0	26.0					241-TX-2T.H.
			2/48						
299-W15-89			670.00	27.0					
VW			8.0	27.0					241-TX-3T.H.
			12/48						
299-W15-90			670.00	28.0					
VW				28.0					241-TX-4T.H.
			12/48						
299-W15-91			670.00	150.0					
VW				150.0					241-TX-13
			10/47						
299-W15-92			670.00	150.0					
VW				150.0					241-TX-14
			10/47						
299-W15-93			670.00	150.0					
VW				150.0					241-TX-15
			10/47						
299-W15-95		39930.00	660.00	100.0					
VW		-75925.00	8.0	100.0					
			1/59						

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 - Well History Information - Drilling

VELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7389	299-W15-89	12/31/1948		27	ft		

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7389	299-W15-89	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7389	299-W15-89	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7389, Well Name: 299-W15-89					
A7389	NA	DLG	1948-12-20 00:00:00.0	DRILL LOG (KEH)	NA
A7389	NA	DLG	1948-12-20 00:00:00.0	DRILL LOG (KEH)	NA

HW-6.2a1

Test holes

DRILLING LOG

2-99-W15-~~84~~ 89

PROJECT NO. ~~D-28493~~

89

A7389

Rig No. HO-22-3127
Well No. 241-TX-3
Driller Rumley
Foreman Russell

Date 12-20-48
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 0

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
2:20 to 3:30	No Gain				1:30 to 2:20	Setting up rig
					3:30 to 4:00	Dressing out and driving to yard.

REMARKS

HW-6.2a

Test holes

DRILLING LOG

PROJECT NO. D-28493

Rig No. HO-22-3127
Well No. 241-TX-3
Driller Rumley
Foreman Russell

299-W15-89
A7389

Date 12-21-48
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 20'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:30	Dressing in and driving to well site
8:30 to 10:30	5'			Sand, gravel, rocks and boulders		
					10:30 to 10:45	Bailing out
10:45 to 11:50	8'			Sand, gravel, rocks and boulders		
					11:50 to 12:00	Bailing out
					12:00 to 12:30	Lunch
12:30 to 1:00	10'			Sand, gravel, rocks and boulders		
					1:00 to 1:15	Bailing
1:15 to 2:15	15'			Sand, gravel, rocks and boulders		
2:15 to 3:20	20'			Sand, gravel, rocks and boulders		
					3:20 to 3:30	Bailing
					3:30 to 4:00	Dressing out and driving to yard

REMARKS

Caving at beginning of hole. Drilling hard from 0 to 20' in sand, gravel, rocks and boulders. Hard to bail out sludge as rocks holds dart open.

NW-6.2a

Test holes

DRILLI. LOG

PROJECT NO. D-28493

Rig No. HO-22-3127
Well No. 241-TX-3
Driller Goebel
Foreman Russell

299-W15-89
A7389

Date 12-22-48
Shift #2
Depth beginning of Shift 20'
Depth completion of Shift 27'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:30	Safety meeting.
					8:30 to 9:15	Gassing up and driving to well site
9:15 to 10:15	25'			Rocks, gravel and sand		
					10:15 to 10:25	Putting in 15' starter casing. Total 15'.
					10:25 to 10:50	Welding 7' pipe. Total 22'.
					10:50 to 11:00	Driving casing
					11:00 to 11:30	Welding 6'6" pipe. Total 28'6".
11:30 to 11:50	26'			Rocks, gravel and sand		
					11:50 to 12:00	Burning holes for well caps
					12:00 to 12:30	Lunch
12:30 to 1:15	27'			Rocks, gravel and sand		
					1:15 to 1:30	Bailing out

REMARKS

Drilled fairly hard from 20' to 25'. Added small amount of water.
25' to 27' drilled hard. Added small amount of water.
Well complete at 1:30 p.m.
28'6" total casing over hole.

NW-6

Test holes

DRILL LOG

PROJECT NO. D-28493

Rig No. HO-22-3127
Well No. 241-TX-3
Driller Goebel
Foreman Russell

299-W15-89
A7389

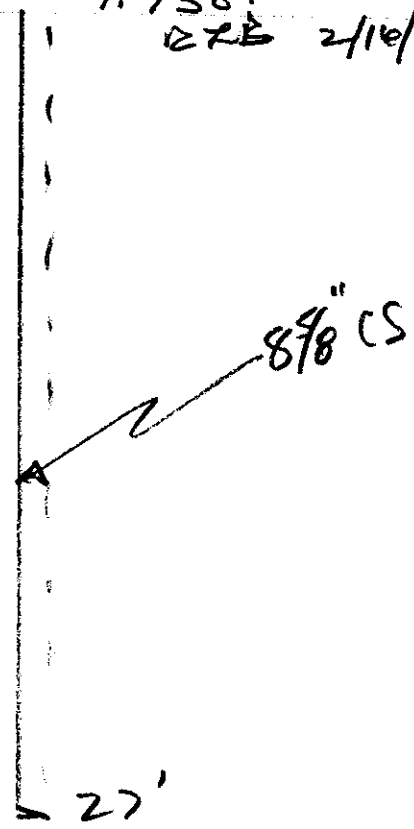
Date 12-22-48
Shift #2
Depth beginning of Shift 20'
Depth completion of Shift 27'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					1:30 to 1:45	Changing bits
					1:45 to 3:30	Tearing down rig and preparing to move
					3:30 to 4:00	Dressing out and driving to yard
					HOLE COMPLETE	

REMARKS

Machine ready to move at 3:30 p.m.

A7389
RRB 2/16/05



299-W15-89
CT 12/1998

not to scale

Test Hole

299-W15-90
A7390

WELL ATTRIBUTES REPORT

'ELD ORDER NO				LAST INSPECTION	1/1/1801
:LL ID	A7390			NORTHING	
.ELL NAME	299-W15-90	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
'LLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
IPMENT 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	
'UBING LENGTH (ft)		TUBING LENGTH (ft)	
'NG CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

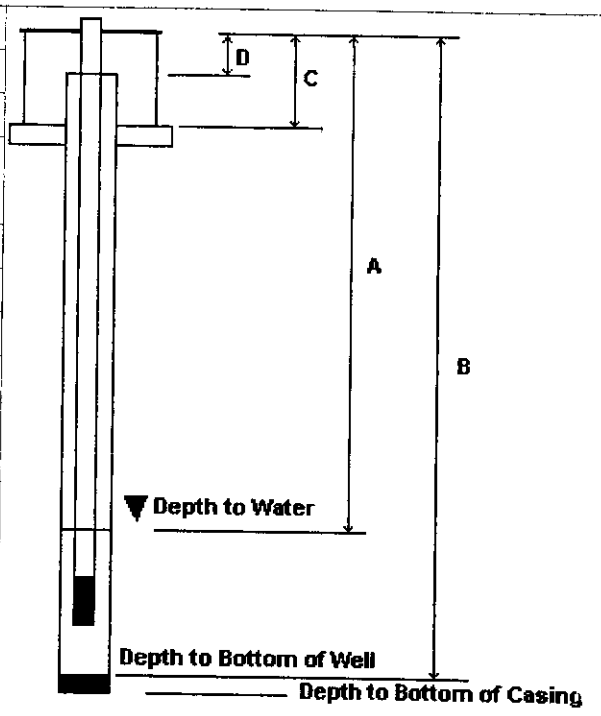
7/18/2005

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7390			NORTHING	
WELL NAME	299-W15-90	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)	28	
	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

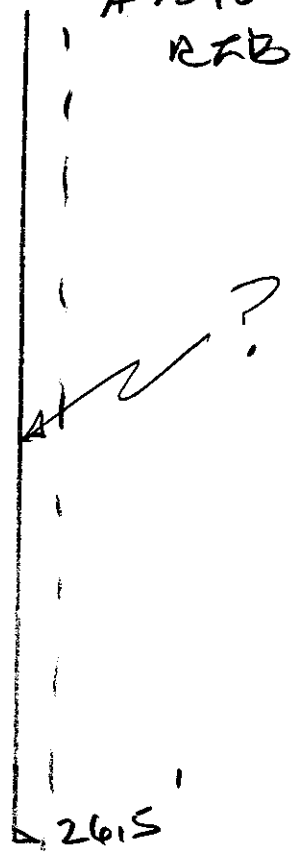
ND* - Not Documented

7/18/2005

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
299-W15-82		39860.00	660.09	101.0					
VW		-75810.00	8.0	98.0					
			10/54						2904 NO.1
299-W15-84		39860.00	669.82	110.0					
VW		-76000.00	8.0	106.0					
			10/54						2904 NO.3
299-W15-85		39970.00	664.11	106.0					
VW		-75910.00	8.0	103.0					
			10/54						2904 NO.4
299-W15-86		39790.00	661.22	144.0					6" TO 142 FT., GROUTED
VW		-75958.00	8.0	136.0					
			8/57						
299-W15-87			670.00	26.0					
			8.0	26.0					
			2/48						241-TX-1T.H.
			0.00	26.0					
			8.0	26.0					
			2/48						241-TX-2T.H.
			0.00	27.0					
			8.0	27.0					
			2/48						241-TX-3T.H.
299-W15-90			670.00	28.0					
VW				28.0					
			12/48						241-TX-4T.H.
299-W15-91			670.00	150.0					
VW				150.0					
			10/47						241-TX-13
299-W15-92			670.00	150.0					
VW				150.0					
			10/47						241-TX-14
299-W15-93			670.00	150.0					
VW				150.0					
			10/47						241-TX-15
299-W15-95		39930.00	660.00	100.0					
VW		-75925.00	8.0	100.0					
			1/59						

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

A 7390
RFB 2/16/05



299-W15-90
CT 12/19/78

not to scale

Test Hole?

Query HWIS again

HWIS Interface - Well History Information - Drilling

VELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7390	299-W15-90	12/31/1948		28	ft		

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7390	299-W15-90	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7390	299-W15-90	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7390, Well Name: 299-W15-90					
A7390	NA	DLG	1948-12-14 00:00:00.0	DRILL LOG (KEH)	NA
A7390	NA	DLG	1948-12-15 00:00:00.0	DRILL LOG (KEH)	NA

DRILLING LOG

PROJECT NO. D-28493

Rig No. HO-22-3127
Well No. 241-TX-4
Driller Rumley
Foreman Russell

299-W15-
90
A7390

Date 12-14-48
Shift # 2
Depth beginning of Shift 0'
Depth completion of Shift 20'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48-8:40	Going to well site and dressing in.
8:40-10:15	5'	Sand, rocks and gravel.				
10:15-12:00	10'	"	"	"		
					12:00-12:30	Lunch.
12:30-1:00	12'	"	"	"		
					1:00-1:15	Bailing out.
					1:00-1:30	Putting in starter casing Total 15'
1:30-2:10	15'	"	"	"		
					2:10-2:25	Bailing out.
2:25-3:00	20'	"	"	"		
					3:00-3:15	Bailing out.
					3:15-3:30	Servicing rig.
					3:30-4:00	Going to 200 East.

REMARKS

Easy drilling from 0' to 20', in sand, rocks and gravel. Water staying and the first 5' caved in, but hole standing up good from 5' to 18' and have got 7' of open hole.

Test holes

~~299-W15-85~~

DRILLING LOG

PROJECT NO. D-28493

Rig No. HO-22-3127
Well No. 241-TX-4
Driller Rumley
Foreman Russell

299-W15-90
A7390

Date 12-15-48
Shift # 2
Depth beginning of Shift 20'
Depth completion of Shift 27'6"

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48-9:00	Safety Meeting.
					9:00-9:30	Dressing in & going to 200 West.
9:30-10:30	23'	Sand, silt, gravel and rocks.				
					10:30-10:45	Welding on 7' casing. Total 22'
					10:45-10:50	Driving casing.
					10:50-11:25	Welding on 7' casing Total 29'
					11:25-11:35	Driving casing.
					11:35-12:00	Bailing out.
					12:00-12:30	Lunch.
12:30-1:00	27'6"	"	" "	" "		
					1:00-2:00	Moving and setting up rig on well no. 1

TEST WELL COMPLETED

REMARKS

Drilling easy in silt, sand, gravel and rocks from 20' to 27'6" water staying and hole standing up good. Can get 10' ahead of casing without it caving and casing driving easy and easy to bail out sludge. Finished well 241TX-4 at 27'6" of hole and 27'6" of casing in hole and 29' of casing overall.

299-W15-91
A7391

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7391			NORTHING	
WELL NAME	299-W15-91	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

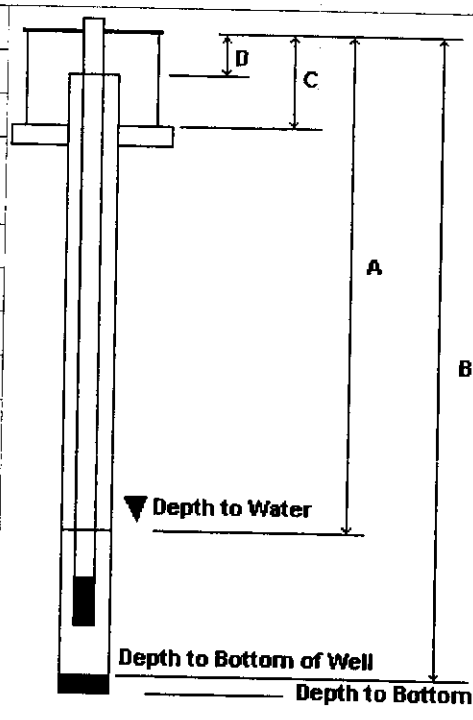
7/18/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7391			NORTHING	
WELL NAME	299-W15-91	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)	150	
	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

7/18/2005

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
299-W15-82		39860.00	660.09	101.0					
VW		-75810.00	8.0	98.0					
			10/54						2904 NO.1
299-W15-84		39860.00	669.82	110.0					
VW		-76000.00	8.0	106.0					
			10/54						2904 NO.3
299-W15-85		39970.00	664.11	106.0					
VW		-75910.00	8.0	103.0					
			10/54						2904 NO.4
299-W15-86		39790.00	661.22	144.0					6" TO 142 FT., GROUTED
VW		-75958.00	8.0	136.0					
			8/57						
299-W15-87			670.00	26.0					
VW			8.0	26.0					
			12/48						241-TX-1T.H.
[illegible]			670.00	26.0					
			8.0	26.0					
			12/48						241-TX-2T.H.
			670.00	27.0					
			8.0	27.0					
			12/48						241-TX-3T.H.
			670.00	28.0					
				28.0					
			12/48						241-TX-4T.H.
299-W15-91			670.00	150.0					
VW				150.0					
			10/47						241-TX-13
299-W15-92			670.00	150.0					
VW				150.0					
			10/47						241-TX-14
299-W15-93			670.00	150.0					
VW				150.0					
			10/47						241-TX-15
299-W15-95		39930.00	660.00	100.0					
VW		-75925.00	8.0	100.0					
			1/59						

Hanford Wells
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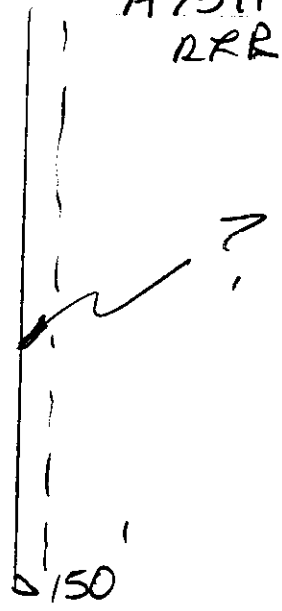
A7391
RRR 2/16/05



299-W15-91
CT 10/19/47

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7391	299-W15-91	10/31/1947		150	ft		

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7391	299-W15-91	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7391	299-W15-91	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7391, Well Name: 299-W15-91					
A7391	NA	DLG	1947-09-29 00:00:00.0	DRILL LOG (KEH)	NA
A7391	NA	DLG	1947-09-29 00:00:00.0	DRILL LOG (KEH)	NA

299-W15-D1

91

DRILLING LOG

PROJECT NO. C-163

Rig No. HD-22-3128
Well No. 241-TX-12 13
Driller Roy
Foreman Gillum

A7391

Date 9-29-47
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 0

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:45 to 8:05	Dressing in
					8:05 to 10:30	Tearing down at 221-T-15 and moving to 241-TX
					10:30 to 11:45	Rigging up at 241-TX
					11:45 to 12:30	Lunch
					12:30 to 3:45	Rigging up at 241-TX
					3:45 to 4:05	Dressing out

REMARKS

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3123
Well No. 241-TX-TX 13
Driller Roy
Foreman Gillum

299-W15-91
A7391

Date 9-30-47
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 0

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 11:45	Rigging up
					11:45 to 12:30	Lunch
					12:30 to 3:45	Rigging up
					3:45 to 4:05	Dressing out.

REMARKS

NW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Hall No. 241 TX 12 13
Driller Boy
Foreman Gillum

299-W15-91
A7391

Date 10-1-47
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 16'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 9:00	Safety meeting
9:00 to 9:55	5'			Top soil and sand		
					9:55 to 10:00	H.I. Testing
					10:05 to 10:25	Out of gas and waiting
10:25 to 10:50	10'			Top soil and sand		
					10:50 to 10:55	H.I. Testing
10:55 to 11:45	14'			Top soil and sand		
					11:45 to 12:30	Lunch
12:30 to 1:05	15'			Top soil and sand		
					1:05 to 1:10	H.I. Testing
1:10 to 1:30	16'			Top soil and sand		

REMARKS

NH-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HD-22-3128
Well No. 241-TX-12
Driller Row
Foreman Gillum

299-W15-91
A7391

Date 10-1-47
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 16'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					1:30 to 2:15	Placing 16' of pipe in hole.
					2:15 to 3:00	Waiting for welder and battery for welder.
					3:00 to 3:15	Welding 10'4" pipe. Total 26'4" over hole.
					3:15 to 3:45	Driving pipe
					3:45 to 4:05	Dressing out

REMARKS

NW-6.287

DRILLING LOG

PROJECT NO. 4-163

Rig No. HO-22-3123
Well No. 241-TX-1
Driller Row
Foreman Gillum

299-W15-91
A7391

Date 10-2-47
Shift #2
Depth beginning of Shift 16'
Depth completion of Shift 41'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
8:05 to 9:30	20'			Grey and black sand & gravel	7:48 to 8:05	Dressing in
9:30 to 10:15	25'			Black sand	9:30 to 9:35	H.I. Testing
10:20 to 11:15	30'			B & W sand and some loam	10:15 to 10:20	H.I. Testing
					11:15 to 11:45	Putting on drive head. Getting ready to weld.
					11:45 to 12:30	Lunch
1:15 to 2:00	35'			B & W sand and some loam	12:30 to 1:15	Welding 8'2" pipe. Total 34'6" over hole.
					2:00 to 2:05	H.I. Testing
					2:05 to 2:30	Welding 10'6" pipe.

REMARKS

16' to 25' mostly black sand and very streaked. Part of way will hold water, then you lose all your water. Small gravel bed in this 9' of drilling. 25' to 41' Black and white sand(coarse), fine gravel and basalt rock.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 299-W15-91
Driller Rowl
Foreman Gillum

299-W15-91
A7391

Date 10-2-47
Shift #2
Depth beginning of Shift 16'
Depth completion of Shift 41'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
2:30 to 3:15	40'			Coarse sand and gravel & loam		
3:20 to 3:45	41'			Coarse sand and gravel & loam	3:15 to 3:20	H.I. Testing
					3:45 to 4:05	Dressing out

REMARKS

HW-6,287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-1
Driller Row
Foreman Gillum

299-W15-91
A7391

Date 10-3-47
Shift #2
Depth beginning of Shift 41'
Depth completion of Shift 75'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
8:05 to 8:40	45'			B & W sandy loam & Basalt rock	7:48 to 8:05	Dressing in
8:45 to 9:25	50'			B & W sandy loam & Basalt rock	8:40 to 8:45	H.I. Testing
9:30 to 10:15	55'			B & W sandy loam & Basalt rock	9:25 to 9:30	H.I. Testing
					10:15 to 10:20	H.I. Testing
					10:20 to 10:40	Waiting on welder
					10:40 to 11:15	Welding 10'6" pipe. Total 55'6" over hole.
					11:15 to 11:45	Driving pipe and cleaning out hole.
					11:45 to 12:30	Lunch
					12:30 to 1:15	Cleaing out hole

REMARKS

41' to 70' Sandy loam. Black and white sand, lots of basalt rock, and some small gravel. Drilling easy. Have to keep casing with tools. This sand caves in easily. Will stand 5'10' of open hole. Had 10' open hole at 55'. Caved in 10'.
70' to 75' Black and white sand, clay, and basalt.

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-1
Driller Roy
Foreman Gillum

299-W15-91
A-7391

Date 10-3-47
Shift #2
Depth beginning of Shift 41'
Depth completion of Shift 75'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
1:35 to 2:15	60'			B & W sandy loam & Basalt rock	1:15 to 1:35	Welding 10' pipe on. 65'6" over hole.
2:20 to 3:00	65'			B & W sandy loam & Basalt rock	2:15 to 2:20	H.I. Testing
3:05 to 3:25	70'			B & W sand, clay and basalt	3:00 to 3:05	H.I. Testing
3:30 to 3:40	75'			B & W sand, clay and basalt	3:25 to 3:30	H.I. Testing
					3:40 to 3:45	H.I. Testing
					3:45 to 4:05	Dressing out

REMARKS

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-T-1
Driller Roy
Foreman Greenfield

299-W15-91
A7391

Date 10-6-47
Shift #2
Depth beginning of Shift 75'
Depth completion of Shift 100'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:20	Preparing to drill
8:20 to 8:55	80'			G & W sand and lots of clay		
					8:55 to 9:00	H.I. Testing
					9:00 to 9:25	Welding 7'2" pipe. Total 72'8" over hole.
9:45 to 10:35	85'			G & W sand and lots of clay	9:25 to 9:45	Welding 7'10" pipe. Total 80'6" over hole.
10:40 to 11:00	90'			G & W sand and lots of clay	10:35 to 10:40	H.I. Testing
11:05 to 11:25	95'			More white sand and less clay	11:00 to 11:05	H.I. Testing
					11:25 to 11:30	H.I. Testing

REMARKS

80' to 90' lots of clay and white sand and some gray sand.

90' to 97' less clay and more white sand. Caves very badly at this depth.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX1
Driller Roy
Foreman Greenfield

299-W15-91
A7391

Date 10-6-47
Shift #2
Depth beginning of Shift 75'
Depth completion of Shift 100'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
11:30 to 11:45	97'			Clay and sand		
					11:45 to 12:30	Lunch
					12:30 to 1:30	Waiting on pipe and welder
					1:30 to 2:50	Welding 23' pipe. Total 103'6" over hole.
2:50 to 3:30	100'			Grey sand & Basalt		
					3:30 to 3:35	H.I. Testing
3:35 to 3:45	----			---		
					3:45 to 4:05	Dressing out

REMARKS

REV-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-1
Driller Row
Foreman Greenfield

299-W15-91
A7391

Date 10-7-47
Shift #2
Depth beginning of Shift 100'
Depth completion of Shift 130'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
8:05 to 8:50	105'			Sand and clay		
					8:50 to 8:55	H.I. Testing
8:55 to 9:30	110'			Sand and clay		
					9:30 to 9:50	H.I. Testing
					9:50 to 10:00	Welding 10' pipe. 113'6" over hole.
10:00 to 10:10	113'			Sand and clay		
					10:10 to 10:30	Welding 10' pipe. 123'6" over hole.
10:30 to 11:05	115'			Sand and clay		
					11:05 to 11:25	H.I. testing
11:25 to 11:45	120'			Sand and clay		
					11:45 to 12:30	Lunch

REMARKS

100' to 124' lots of clay and sand.
124' to 130' hit basalt rock and gravel. Drilling slow and hard.

DRILLING LOG

PROJECT NO. U-163

Rig No. HO-22-3128
Well No. 241-TX-1
Driller Roy
Foreman Greenfield

299-W15-91
A7391

Date 10-7-47
Shift #2
Depth beginning of Shift 100'
Depth completion of Shift 130'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
12:30 to 1:15	125'			Clay, sand and Basalt rock		
					1:15 to 1:30	H.I. Testing
1:45 to 2:50	130'			Coarse gravel & basalt rock	1:30 to 1:45	Welding 10' pipe. 133'6" over hole.
					2:50 to 3:10	H.I. Testing
3:10 to 3:45	---			---		
					3:45 to 4:05	Dressing out

REMARKS

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-13
Driller Row
Foreman Greenfield

299-W15-91
A7391

Date 10-9-47
Shift #2
Depth beginning of Shift 140'
Depth completion of Shift 150' COMPLETE

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
8:05 to 8:55	145'			Sand and loam	7:48 to 8:05	Dressing in
					8:55 to 9:15	H.I. Testing
9:45 to 11:20	150'			Sand and loam gravel and basalt	9:15 to 9:45	Welding 8' pipe. 151'6" over hole.
					11:20 to 11:45	H.I. Testing
					11:45 to 12:30	Lunch
					12:30 to 3:45	Waiting on H.I. for final results
					3:45 to 4:05	Dressing out
						WELL COMPLETE

REMARKS

140' to 150' sand and loam. Caves in at 3' below pipe. Some fine gravel and basalt.
Well completed at 11:20 A.M. Oct. 9, 1947. Pipe on bottom at 150'.
151'6" of pipe over hole.

RV-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-13
Driller Row
Foreman Greenfield

299-W15-91
A7391

Date 10-8-47
Shift #2
Depth beginning of Shift 130'
Depth completion of Shift 140'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 9:15	Safety meeting
9:15 to 10:50	135'			Coarse gravel Basalt rock & sand		
					10:50 to 11:25	H.I. Testing
					11:25 to 11:45	Mixing and bailing
					11:45 to 12:30	Lunch
					12:30 to 1:00	Mixing and bailing
					1:00 to 2:00	Welding 10' pipe. Welding 5'5" pipe. Total of 143'6" over hole.
2:00 to 3:30	140'			Coarse gravel Basalt rock & sand		
					3:30 to 3:45	H.I. Testing
					3:45 to 4:05	Dressing out

REMARKS

130' to 140' Coarse gravel, basalt rock, and black sand. Shale Binder.
138' more sand less gravel. Hit hard rock at 138' and it is hard to bail at this point.

299-W15-92
A7392

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7392			NORTHING	
WELL NAME	299-W15-92	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

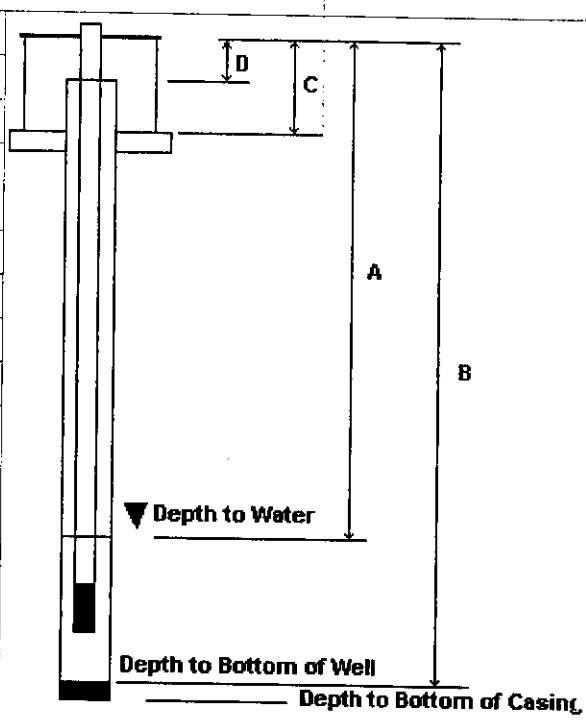
7/18/2005

WELL ATTRIBUTES REPORT

'ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7392			NORTHING	
WELL NAME	299-W15-92	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)	150	
	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

7/18/2005

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
299-W15-82		39860.00	660.09	101.0					
VW		-75810.00	8.0	98.0					
			10/54						2904 NO.1
299-W15-84		39860.00	669.82	110.0					
VW		-76000.00	8.0	106.0					
			10/54						2904 NO.3
299-W15-85		39970.00	664.11	106.0					
VW		-75910.00	8.0	103.0					
			10/54						2904 NO.4
299-W15-86		39790.00	661.22	144.0					6" TO 142 FT., GROUTED
VW		-75958.00	8.0	136.0					
			8/57						
299-W15-87			670.00	26.0					
VW			8.0	26.0					
			12/48						241-TX-1T.H.
299-W15-88			670.00	26.0					
VW			8.0	26.0					
			12/48						241-TX-2T.H.
[illegible]			670.00	27.0					
			8.0	27.0					
			12/48						241-TX-3T.H.
			70.00	28.0					
				28.0					
			12/48						241-TX-4T.H.
			70.00	150.0					
				150.0					
			10/47						241-TX-13
299-W15-92			670.00	150.0					
VW				150.0					
			10/47						241-TX-14
299-W15-93			670.00	150.0					
VW				150.0					
			10/47						241-TX-15
299-W15-95		39930.00	660.00	100.0					
VW		-75925.00	8.0	100.0					
			1/59						

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

Query HWIS again

HWIS Interface - Well History Information - Drilling

/ELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7392	299-W15-92	10/31/1947		150	ft		

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7392	299-W15-92	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7392	299-W15-92	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7392, Well Name: 299-W15-92					
A7392	NA	DLG	1947-09-30 00:00:00.0	DRILL LOG (KEH)	NA
A7392	NA	DLG	1947-09-30 00:00:00.0	DRILL LOG (KEH)	NA

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127

Well No. 241-TX-15 & 14

Driller Rumley

Foreman Gillum

Date 9-30-47

Shift #2

Depth beginning of Shift 0

Depth completion of Shift 0

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:45 to 8:05	Dressing in
					8:05 to 9:30	Setting up rig at C-163
					9:30 to 10:00	Moving from 241-TX to 221-T

REMARKS

HW-6.207

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-~~33~~ 2
Driller Rumley
Foreman Gillum

299-W15-92
A 7392

Date 10-1-47
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 0

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 9:05	Safety meeting
					9:05 to 11:45	Setting up rig
					11:45 to 12:30	Lunch
					12:30 to 3:45	Setting up rig and cleaning up.
					3:45 to 4:05	Dressing out

REMARKS

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Gillum

299-W15-92
A7392

Date 10-2-47
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 13'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
8:05 to 8:40	5'			Sand		
					8:40 to 9:10	H.I. Testing
9:10 to 10:40	10'			Sand		
					10:40 to 10:45	H.I. Testing
					10:45 to 11:00	16' casing in hole.
					11:00 to 11:30	Bailing out
11:30 to 11:45	12'			Sand		
					11:45 to 12:30	Lunch
12:30 to 1:30	15'			Black sand		
					1:30 to 1:35	H.I. Testing
					1:35 to 2:30	Waiting and welding on 10'4" casing

REMARKS

16' casing in hole. Welding 10'4" casing making total of 26'4" overall. Drilling easy from 5' to 10' and water staying. Gravel and black sand from 10' to 15', but drilling is hard.

HW-6.287

DRILLING LOG

PROJECT NO. U-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Pumley
Foremen Gillum

299-W15-92
A7392

Date 10-2-47
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 18'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					2:30 to 3:00	Driving pipe
3:00 to 3:45	18'			Sand and gravel		
					3:45 to 4:05	Dressing out

REMARKS

HW-6.287

DRILLING LOG

PROJECT NO. G-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Gillum

299-W15-92
A7392

Date 10-3-47
Shift #2
Depth beginning of Shift 18'
Depth completion of Shift 40'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:15	Waiting on S.W.P.
8:15 to 8:40	20'			Fine black sand		
					8:40 to 8:45	H.I. Testing
					8:45 to 9:30	Servicing rig
					9:30 to 9:50	Driving pipe
9:50 to 10:25	25'			coarse black sand		
					10:25 to 10:30	H.I. Testing
					10:30 to 11:00	Putting on drive head
					11:00 to 11:45	Welding on 10'6" casing
					11:45 to 12:30	Lunch
					12:30 to 1:00	Driving pipe

REMARKS

Fine black sand from 15' to 20'. Drilling hard and water staying.
Coarse black sand from 20' to 25'. Drilling easy.
Welding on 10'6" casing making total of 36'10" overall.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Gillum

299-W15-92
A7392

Date 10-3-47
Shift #2
Depth beginning of Shift 18'
Depth completion of Shift 40'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
1:00 to 1:25	30'			Coarse sand		
					1:25 to 1:30	H.I. Testing
1:30 to 1:55	35'			Coarse sand		
					1:55 to 2:00	H.I. Testing
					2:00 to 2:25	Welding on 8'7" casing. Total 45'5" overall.
					2:25 to 2:45	Driving casing
2:45 to 3:25	40'			Coarse sand		
					3:25 to 3:30	H.I. Testing
					3:30 to 3:45	Bailing out
					3:45 to 4:00	Dressing out

REMARKS

30' to 40' Coarse sand. Drilling easy and water staying.

KW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. 50-22-3127
Kell No. 241-TX-2
Driller Rumley
Foreman Greenfield

299-W15-92
A7392

Date 10-6-47
Shift #2
Depth beginning of Shift 40'
Depth completion of Shift 59'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:30	Servicing rig
					8:30 to 8:45	Driving pipe
8:45 to 9:15	45'			Sand and loam		
					9:15 to 9:30	H.I. Testing
					9:30 to 9:50	Bailing out
					9:50 to 10:15	Welding on 7' casing
					10:15 to 10:45	Driving pipe
10:45 to 11:45	43'			Sand and loam		
					11:45 to 12:30	Lunch
12:30 to 1:00	50'			Coarse sand		
					1:00 to 1:10	H.I. Testing

REMARKS

40' to 45' sand and loam and drilling easy.
Welded on 7' casing making total of 52'5" overall.
Coarse sand and hard drilling from 45' to 50'.

HW-6.001

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Greenfield

299-W15-92
A7392

Date 10-6-47
Shift #2
Depth beginning of Shift 40'
Depth completion of Shift 59'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					1:10 to 1:30	Driving pipe
1:30 to 2:00	55'			Coarse sand		
					2:00 to 2:05	H.I. Testing
2:05 to 2:30	59'			Coarse sand		
					2:30 to 3:00	Waiting and welding on 5' casing.
					3:00 to 3:10	Driving pipe
					3:10 to 3:25	Welding on 5' casing.
					3:25 to 3:45	Driving pipe
					3:45 to 4:05	Dressing out

REMARKS

Coarse sand from 50' to 59' and holding water good.
Welded on 5' casing making total of 57'5" overall.
Welded on 5' casing making total of 62'5" overall.

HW-6....

DRILLING LOG

PROJECT NO. G-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Greenfield

299-W15-92
A7392

Date 10-7-47
Shift #3
Depth beginning of Shift 59'
Depth completion of Shift 75'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:20	Safety instructions and S.W.P.
8:20 to 8:45	60'			Sandy loam		
					8:45 to 9:00	H.I. Testing
					9:00 to 9:20	Driving pipe
9:20 to 10:00	65'			Clay and sandy loam		
					10:00 to 10:10	H.I. Testing
					10:10 to 10:50	Waiting and welding on 10' casing.
					10:50 to 11:00	Driving pipe
11:00 to 11:25	67'			Clay & sandy loam		
					11:25 to 11:45	Driving pipe
					11:45 to 12:30	Lunch

REMARKS

Sandy loam from 55' to 60'. Drilling easy and water staying in hole.
Clay and sandy loam from 60' to 70'. Drilling and water staying in hole.
Welded on 10' casing making total of 72'5" overall.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Greenfield

299-W15-92
A7392

Date 10-7-47
Shift #2
Depth beginning of Shift 59'
Depth completion of Shift 75'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					12:30 to 12:50	Bailing out
12:50 to 1:30	70'			Clay and sand		
					1:30 to 1:40	H.I. Testing
					1:40 to 2:00	Driving pipe
2:00 to 2:30	75'			Clay and sand		
					2:30 to 2:40	H.I. Testing
					2:40 to 3:15	Welding on 10' casing
					3:15 to 3:45	Driving pipe
					3:45 to 4:05	Dressing out

REMARKS

From 70' to 75' clay and sand. Drilling easy and water staying in hole.
Welded on 10' casing making total of 82'5" overall.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Greenfield

299-W15-92
A7392

Date 10-8-47
Shift S2
Depth beginning of Shift 75'
Depth completion of Shift 95'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 9:25	Safety meeting
					9:25 to 9:45	Waiting on S.W.P.
9:45 to 10:25	80'			Clay and fine sand		
					10:25 to 10:40	H.I. Testing
					10:40 to 11:00	Driving pipe
11:00 to 11:45	83'			Clay and fine sand		
					11:45 to 12:30	Lunch
12:30 to 12:45	85'			Clay and fine sand		
					12:45 to 1:00	H.I. Testing
1:00 to 1:30	90'			Clay		
					1:30 to 1:40	H.I. Testing

REMARKS

75' to 85' clay and fine sand. Drilling easy and water staying in hole.
85' to 90' clay. Drilling easy and water staying in hole.
Welded on 5' casing making total of 87'5" overall.

HW-6.267

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Greenfield

299-W15-92
A7392

Date 10-8-47
Shift #2
Depth beginning of Shift 75'
Depth completion of Shift 95'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					1:40 to 2:10	Waiting and welding on 5' casing. Total 92'5".
					2:10 to 2:20	Driving pipe
					2:20 to 2:45	Welding on 5' casing
					2:45 to 2:50	Driving pipe
2:50 to 3:30	95'			Clay		
					3:30 to 3:35	H.I. Testing
					3:35 to 3:45	Bailing out
					3:45 to 4:00	Dressing out

REMARKS

From 90' to 95' clay. Drilling easy and water staying in hole good.

HW-5.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Greenfield

299-W15-92
A7392

Date 10-9-47
Shift #2
Depth beginning of Shift 95'
Depth completion of Shift 125'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
8:10 to 8:30	100'			Clay	7:48 to 8:10	Dressing in
8:35 to 9:00	105'			Clay	8:30 to 8:35	H.I. Testing
9:05 to 9:35	110'			Clay	9:00 to 9:05	H.I. Testing
9:40 to 10:00	115'			Clay	9:35 to 9:40	H.I. Testing
					10:00 to 10:05	H.I. Testing
					10:05 to 10:25	Welding on 10' casing
					10:25 to 10:35	Driving pipe
					10:35 to 10:50	Welding on 10' casing

REMARKS

Clay from 95' to 115'. Easy drilling and water staying.
Welded on 2 10' (20') of pipe. Total of 112'5" overall.

HW-6.207

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Greenfield

299-W15-92
A7392

Date 10-9-47
Shift #2
Depth beginning of Shift 95'
Depth completion of Shift 125'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					10:50 to 10:25	Driving casing
					10:25 to 11:45	Bailing out
					11:45 to 12:30	Lunch
12:30 to 1:20	120'			Clay		
					1:20 to 1:25	H.I. Testing
					1:25 to 1:50	Welding on 10' casing
					1:50 to 2:00	Driving pipe
2:00 to 2:40	125'			Clay		
					2:40 to 2:45	H.I. Testing
					2:45 to 3:00	Driving pipe
					3:00 to 3:30	Welding on 10' casing
					3:30 to 3:45	Driving pipe
					3:45 to 4:00	Dressing out

REMARKS

Clay and little fine sand from 115' to 125'. Easy drilling and water staying.
Welded on 2 10' (20') pipe. Total 132'5" overall.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Gillum

299-W15-92
A7392

Date 10-10-47
Shift #2
Depth beginning of Shift 125'
Depth completion of Shift 135'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:30	Waiting on S.W.P.
8:30 to 10:00	130'			Gravel and rock		
					10:00 to 10:20	H.I. Testing
					10:20 to 10:45	Driving pipe
10:45 to 11:45	132'					
					11:45 to 12:30	Lunch
12:30 to 1:30	135'			Gravel and rock		
					1:30 to 1:40	H.I. Testing
					1:40 to 2:10	Welding on 10' casing. Total 142'5" overall.
					2:10 to 2:25	Driving pipe
2:25 to 3:45	136'					
					3:45 to 4:05	Dressing out

REMARKS

Gravel and rock from 125' to 130'. Holding water good and drilling easy.
Gravel and rock from 130' to 135'. Holding water good and drilling hard.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Gillum

299-W15-92
A7392

Date 10-13-47
Shift #2
Depth beginning of Shift 135'
Depth completion of Shift 150'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:45	Servicing rig
					8:45 to 9:10	Driving pipe
9:10 to 11:00	140'			Fine black sand		
					11:00 to 11:10	H.I. Testing
11:10 to 11:30	143'			Fine black sand		
					11:30 to 11:45	Driving pipe
					11:45 to 12:30	Lunch
12:30 to 1:00	145'			Fine black sand		
					1:00 to 1:05	H.I. Testing
					1:05 to 1:30	Welding on 10' casing. Total 152'5".
					1:30 to 1:45	Driving pipe

REMARKS

Hard drilling from 135' to 145'. Fine black sand and it caves when yoou drill 2 or 3 feet below pipe. Water staying in hole pretty good.

Welding on 10' casing making total of 152'5" overall.

HW-6.

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Rumley
Foreman Gillum

299-W15-92
A7392

Date 10-13-47
Shift #2
Depth beginning of Shift 135'
Depth completion of Shift 150'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
1:45 to 2:30	150'			Fine black sand		
					2:00 to 2:35	H.I. Testing
					2:35 to 3:00	Bailing out
					3:00 to 3:45	Driving pipe
					3:45 to 4:00	Dressing out
					WELL COMPLETE	

REMARKS

Pipe drive hard from 140' to 150'.

NW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3127
Well No. 241-TX-2
Driller Pumley
Foreman Gillum

299-W15-92
A7392

Date 10-14-47
Shift #2
Depth beginning of Shift 150'
Depth completion of Shift 150'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:10	Dressing in
					8:10 to 8:30	Waiting on S.W.P.
					8:30 to 9:30	Cleaning out hole and around rig
					9:30 to 10:00	Moving from 241-TX to 224-T

REMARKS

299-W15-93
A7393

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7393			NORTHING	
WELL NAME	299-W15-93	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

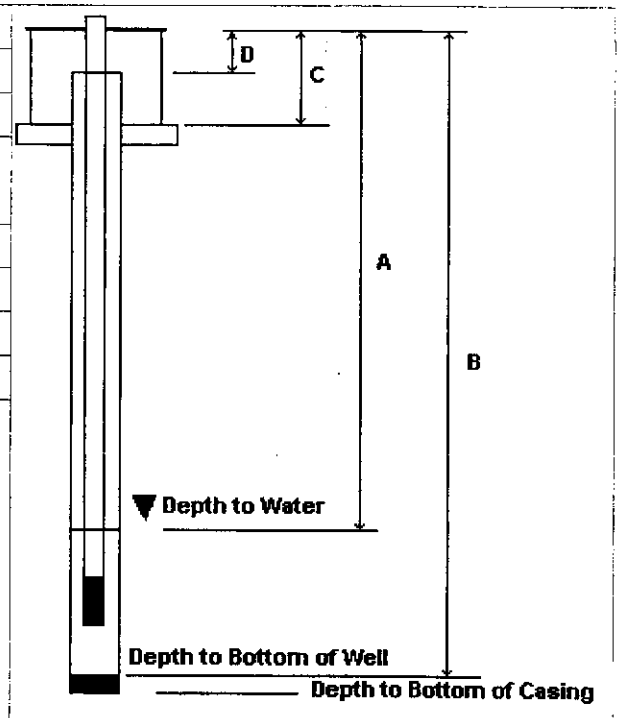
7/18/2005

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7393			NORTHING	
WELL NAME	299-W15-93	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)	150	
	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

7/18/2005

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
299-W15-82		39860.00	660.09	101.0					
VW		-75810.00	8.0	98.0					
			10/54						2904 NO.1
299-W15-84		39860.00	669.82	110.0					
VW		-76000.00	8.0	106.0					
			10/54						2904 NO.3
299-W15-85		39970.00	664.11	106.0					
VW		-75910.00	8.0	103.0					
			10/54						2904 NO.4
299-W15-86		39790.00	661.22	144.0					6" TO 142 FT., GROUTED
VW		-75958.00	8.0	136.0					
			8/57						
299-W15-87			670.00	26.0					
VW			8.0	26.0					
			12/48						241-TX-1T.H.
299-W15-88			670.00	26.0					
VW			8.0	26.0					
			12/48						241-TX-2T.H.
299-W15-89			670.00	27.0					
VW			8.0	27.0					
			12/48						241-TX-3T.H.
299-W15-90			670.00	28.0					
				28.0					
			18						241-TX-4T.H.
			)0	150.0					
				150.0					
			17						241-TX-13
			)0	150.0					
				150.0					
			17						241-TX-14
299-W15-93			670.00	150.0					
VW				150.0					
			10/47						241-TX-15
299-W15-95		39930.00	660.00	100.0					
VW		-75925.00	8.0	100.0					
			1/59						

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

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUR
A7393	299-W15-93	10/31/1947		150	ft		

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7393	299-W15-93	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

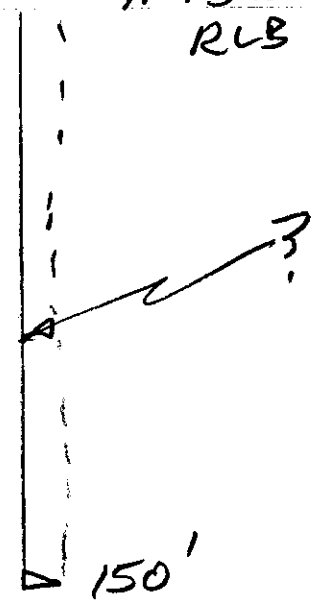
WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7393	299-W15-93	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7393, Well Name: 299-W15-93					
A7393	NA	DLG	1947-10-10 00:00:00.0	DRILL LOG (KEH)	NA
A7393	NA	DLG	1947-10-10 00:00:00.0	DRILL LOG (KEH)	NA

A 7393
RLB 2/16/05



299-W15-93
CT 10/19/47

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128

Well No. 241-TX-B 15 - 297 - W15 - 93

Driller Row

Foreman Gillum

A7393

Date 10-10-47

Shift #2

Depth beginning of Shift 0

Depth completion of Shift 0

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 11:45	Moving to location 241-TX-3
					11:45 to 12:30	Lunch
					12:30 to 3:45	Rigging up
					3:45 to 4:05	Dressing out

REMARKS

#-6.287

DRILLING LOG

PROJECT NO. C-163

ig No. HO-22-3128
oil No. 241-TX-3
riller Row
oreman Gillum

299-W15-93
A 7393

Date 10-13-47
Shift #2
Depth beginning of Shift 0
Depth completion of Shift 20'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
8:05 to 9:00	5'			Top soil		
					9:00 to 9:05	H.I. Testing
9:05 to 9:30	10'			Top soil		
					9:30 to 9:35	H.I. Testing
9:35 to 10:30	15'			Top soil		
					10:30 to 10:35	H.I. Testing
					10:35 to 11:45	Helping Johnson and Blume move rig at 241.
					11:45 to 12:30	Lunch
12:30 to 1:20	20'			Basalt rock and gravel		
					1:20 to 1:30	H.I. Testing
					1:30 to 2:30	Placing 16' pipe and changing bit.

REMARKS

DRILLI LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-16-47
Shift #2
Depth beginning of Shift 75'
Depth completion of Shift 110'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
8:05 to 8:50	80'			Clay and sand		
					8:50 to 9:00	H.I. Testing
9:00 to 9:40	85'			Clay and sand		
					9:40 to 9:50	H.I. Testing
					9:50 to 10:10	Welding 10'6" pipe. Total 84'7".
					10:10 to 10:20	Driving pipe
					10:20 to 10:45	Welding 9'8" pipe. Total 94'3".
10:45 to 11:30	90'			Clay and sand		
					11:30 to 11:45	H.I. Testing
					11:45 to 12:30	Lunch
12:30 to 1:15	95'			Clay and sand		

REMARKS

Pipe on bottom at 110'. 114'9" pipe in hole. 75' to 95' clay and sand. 95' to 110' heavy clay and sand.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-14-47
Shift #2
Depth beginning of Shift 20'
Depth completion of Shift 45'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:30	Preparing to drill
8:30 to 10:00	25'			Basalt rock, shale and gravel		
					10:00 to 10:10	H.I. Testing
					10:10 to 11:00	Welding 8'6" pipe. Total 35' over hole.
					11:00 to 11:20	Driving pipe
					11:20 to 11:45	Welding 8' pipe. Total 43' over hole.
					11:45 to 12:30	Lunch
12:30 to 1:10	30'			Coarse sand and fine black sand		
					1:10 to 1:20	H.I. Testing
1:20 to 1:50	35'			Coarse sand and fine black sand		
					1:50 to 2:00	H.I. Testing

REMARKS

20' to 40' coarse black sand, basalt rock and gravel. Will not hold water.
40' to 45' gray sand and clay. Caves very badly.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-14-47
Shift #2
Depth beginning of Shift 20'
Depth completion of Shift 45'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
2:00 to 2:35	40'			coarse sand and fine bback sand		
					2:35 to 2:40	H.I. Testing
2:40 to 2:50	45'			Grey sand and clay		
					2:50 to 2:55	H.I. Testing
					3:00 to 3:45	Welding 10'7" pipe. Total 53'7" over hole.

REMARKS

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-15-47
Shift #2
Depth beginning of Shift 45'
Depth completion of Shift 75'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 9:00	Safety meeting
					9:00 to 9:15	Dressing in
9:15 to 10:25	50'			Sand, basalt, clay		
					10:25 to 10:35	H.I. Testing
10:35 to 11:05	55'			Sand, basalt, clay		
					11:05 to 11:15	H.I. Testing
11:15 to 11:40	60'			Sand, basalt, clay		
					11:40 to 11:45	H.I. Testing
					11:45 to 12:30	Lunch
12:30 to 1:15	63'			----		
					1:15 to 2:00	Welding on 10' pipe. Total 63'7" over hole.
2:00 to 2:30	65'			Clay and sand		

REMARKS

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Hell No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-15-47
Shift #2
Depth beginning of Shift 45'
Depth completion of Shift 75'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					2:30 to 2:35	H.I. Testing
2:35 to 2:55	70'			Clay and sand		
					2:55 to 3:00	H.I. Testing
3:00 to 3:15	75'			Clay and sand		
					3:15 to 3:20	H.I. Testing
					3:20 to 3:45	Welding 10'6" pipe. Total 74'1" over hole.
					3:45 to 4:05	Dressing out

REMARKS

DRILLI LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-16-47
Shift #2
Depth beginning of Shift 75'
Depth completion of Shift 110'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
8:05 to 8:50	80'			Clay and sand		
					8:50 to 9:00	H.I. Testing
9:00 to 9:40	85'			Clay and sand		
					9:40 to 9:50	H.I. Testing
					9:50 to 10:10	Welding 10'6" pipe. Total 84'7".
					10:10 to 10:20	Driving pipe
					10:20 to 10:45	Welding 9'8" pipe. Total 94'3".
10:45 to 11:30	90'			Clay and sand		
					11:30 to 11:45	H.I. Testing
					11:45 to 12:30	Lunch
12:30 to 1:15	95'			Clay and sand		

REMARKS

Pipe on bottom at 110'. 114'9" pipe in hole. 75' to 95' clay and sand. 95' to 110' heavy clay and sand.

HW-6.207

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-16-47
Shift #2
Depth beginning of Shift 75'
Depth completion of Shift 110'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					1:15 to 1:25	H.I. Testing
1:25 to 1:40	100'			Heavy clay & sand		
					1:40 to 1:50	H.I. Testing
1:50 to 2:10	105'			Heavy clay & sand		
					2:10 to 2:15	H.I. Testing
2:15 to 2:45	110'			Heavy clay & sand		
					2:45 to 2:55	H.I. Testing
					2:55 to 3:15	Welding 10'6" pipe. Total 104'9".
					3:15 to 3:20	Driving pipe
					3:20 to 3:45	Welding 10' pipe. Total 114'9".

REMARKS

HW-6.287

DRILLIN .OG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-17-47
Shift #2
Depth beginning of Shift 110'
Depth completion of Shift 125'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:15	Waiting on H.I.
8:15 to 9:45	115'			Heavy clay & sand		
					9:45 to 10:00	H.I. Testing
					10:00 to 10:20	Welding 10' pipe. Total 124'9".
10:20 to 11:30	120'			Coarse gravel		
					11:30 to 11:45	H.I. Testing
					11:45 to 12:30	Lunch
12:30 to 2:40	125'			Gravel and sand		
					2:40 to 3:00	H.I. Testing
					3:00 to 3:45	Changing bit

REMARKS

115' to 125' started to change formation from clay and sand to coarse gravel and boulders. Still in boulders and gravel at 125' and hard to drill.

HW-6.287

DRILLIN .OG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-20-47
Shift #2
Depth beginning of Shift 125'
Depth completion of Shift 135'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:25	Waiting on S.W.P.
8:25 to 10:45	130'			Black basalt, rock and gravel		
					10:45 to 11:00	H.I. Testing
					11:00 to 11:25	Welding on 10' pipe. Total 134'9".
11:25 to 11:45	---			----		
					11:45 to 12:30	Lunch
12:30 to 2:35	135'			Black basalt, rock and gravel		
					2:35 to 2:45	H.I. Testing
					2:45 to 3:15	Welding 8'10" pipe. Total 143'7".
3:15 to 3:45	--			--		
					3:45 to 4:05	Dressing out

REMARKS

125' to 135' hard drilling. Rock, Basalt, gravel. Holds water fairly well. Water will leave hole. Rained all day and was hard to handle tools as brake sticks.

HW-6.287

DRILLIN LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. ~~361-T-3~~ 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-21-47
Shift #2
Depth beginning of Shift 135'
Depth completion of Shift 145'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 8:05	Dressing in
					8:05 to 8:30	Waiting on S.W.P. and preparing to drill
8:30 to 10:35	140'			Hard quartz and Basalt		
					10:35 to 10:50	H.I. Testing
10:50 to 11:45	---			-----		
					11:45 to 12:30	Lunch
12:30 to 3:05	145'			Hard quartz and Basalt		
					3:05 to 3:15	H.I. Testing
					3:15 to 3:45	Welding 7' pipe. Total 150'7".
					3:45 to 4:05	Dressing out

REMARKS

135' to 145' hard drilling. Very slow. Hard quartz and basalt rock. This seems to lay in layers of quartz and gravel. This is the hardest five feet have struck. 140' to 145'.

HW-6.287

DRILLING LOG

PROJECT NO. C-163

Rig No. HO-22-3128
Well No. 241-TX-3
Driller Row
Foreman Gillum

299-W15-93
A7393

Date 10-22-47
Shift #2
Depth beginning of Shift 145'
Depth completion of Shift 150'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:48 to 9:00	Safety meeting
					9:00 to 9:15	Dressing in
9:15 to 11:45	149'			Basalt rock, quartz and sand		
					11:45 to 12:30	Lunch
12:30 to 1:30	150'			Basalt rock, quartz and sand		
					1:30 to 1:45	H.I. Testing
					1:45 to 3:45	Waiting on H.I. for final results.
					3:45 to 4:05	Dressing out
					WELL COMPLETE	

REMARKS

145' to 150' hard rock, basalt and quartz and slow drilling.
Well complete at 150' at 1:30 p.m. 10-22-47.
Pipe on bottom of hole at 150' and 150'7" of pipe over hole.

299-W15-221
A7519

WELL ATTRIBUTES REPORT

'ELD ORDER NO				LAST INSPECTION	1/1/1801
'ELL ID	A7519			NORTHING	
'ELL NAME	299-W15-221	CONST DATE		EASTING	
.IOST 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
'LLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
JIPMENT IN WELL	☐ YES ☐ NO ☑ ND*	EQUIPMENT IN WELL	☐ YES ☐ NO
BRIS 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	
'UBING LENGTH (ft)		TUBING LENGTH (ft)	
'NG CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

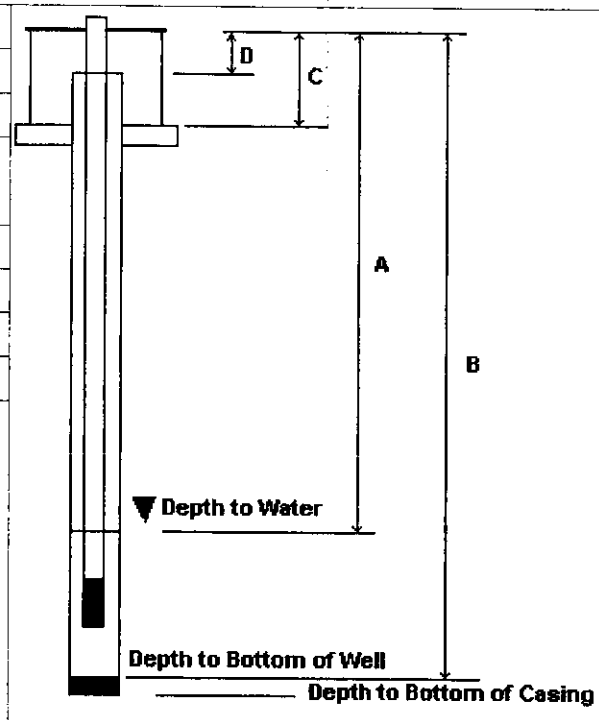
7/18/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7519			NORTHING	
WELL NAME	299-W15-221	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

7/18/2005

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7519	299-W15-221	01/01/1801					

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7519	299-W15-221	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Borehole was not drilled.

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7519	299-W15-221	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7519, Well Name: 299-W15-221					
A7519	0011372	DPF	1993-07-08 00:00:00.0	DRILLING PLANNING: SONIC TEST AT THE HANFORD SITE	NA

5.15

DRILLING PLANNING

200-ZP-2

200W CARBON TET

Work Scope Description: SONIC TEST AT THE HANFORD SITE

List Borehole Designation(s): VOC-ARID ID: ID 06, VEX 04, VEX 05

Reference: WHC-SD-EN-TP-028 Rev: 0 Date Approved: 7/8/93

	Print/Sign Name and Date
Cultural Resource Review/Clearance (WHC-CM-7-5, 12.3)	L.O. Amos 9-15-93 / G.W. McGeller 11/22/89
Environmental Assessment/NEPA Documentation (WHC-CM-7-5, 4.0)	G.W. McGeller 9/15/93
Excavation Permit (WHC-CM-4-3, CM-8/WHC-CM-8-7, 503.1)	LO Amos / L.O. Amos 9/10/93
Start Card(s) (WAC 173-160)	LO Amos / L.O. Amos 9/15/93
Hazardous Waste Operations Permit/Site Safety Plan (WHC-CM-4-3, Vol. 4/EII 2.1)	G.W. McGeller 7-20-93
Radiation Work Permit/ALARA Management Worksheet (WHC-CM-4-10, 8.0/WHC-CM-4-11)	N/A G.W. McGeller 7-20-93
Davis-Bacon Act Determination (WHC-CM-8-8, JCS-6)	G.W. McGeller 6-10-93
Safety Assessment WCH-CM-4-3, HWD-1	G.W. McGeller 3-12-93
Confined Space Entry Permit (WHC-CM-4-40, 3.1)	N/A G.W. McGeller 7-20-93
Personnel Training (EII 1.1)	LO Amos / L.O. Amos 9-16-93
Site Evaluation Letter (WHC-CM-8-7, 905)	N/A
Hazard Classification (WHC-CM-4-46, 4.0)	G.W. McGeller 3-12-93
ALARA Checklist (WHC-CM-4-11)	N/A G.W. McGeller 7-20-93
Waste Disposal Planning (EII 4.2 or 4.3)	LO Amos / L.O. Amos 9-16-93
Letter of Instruction (WHC-CM-6-2, PM-10/EII 1.15)	G.W. McGeller
Mechanical Equipment Ready to Support Operations	R.G. Hall 9-16-93
Develop/Revise Procedures and Protocol	N/A
Sonic Test Plan WHC-SD-EN-TP-028 Rev 0	G.W. McGeller 7/9/93
Site Access Agreement (WDC-WHC)	G.W. McGeller 7/19/93

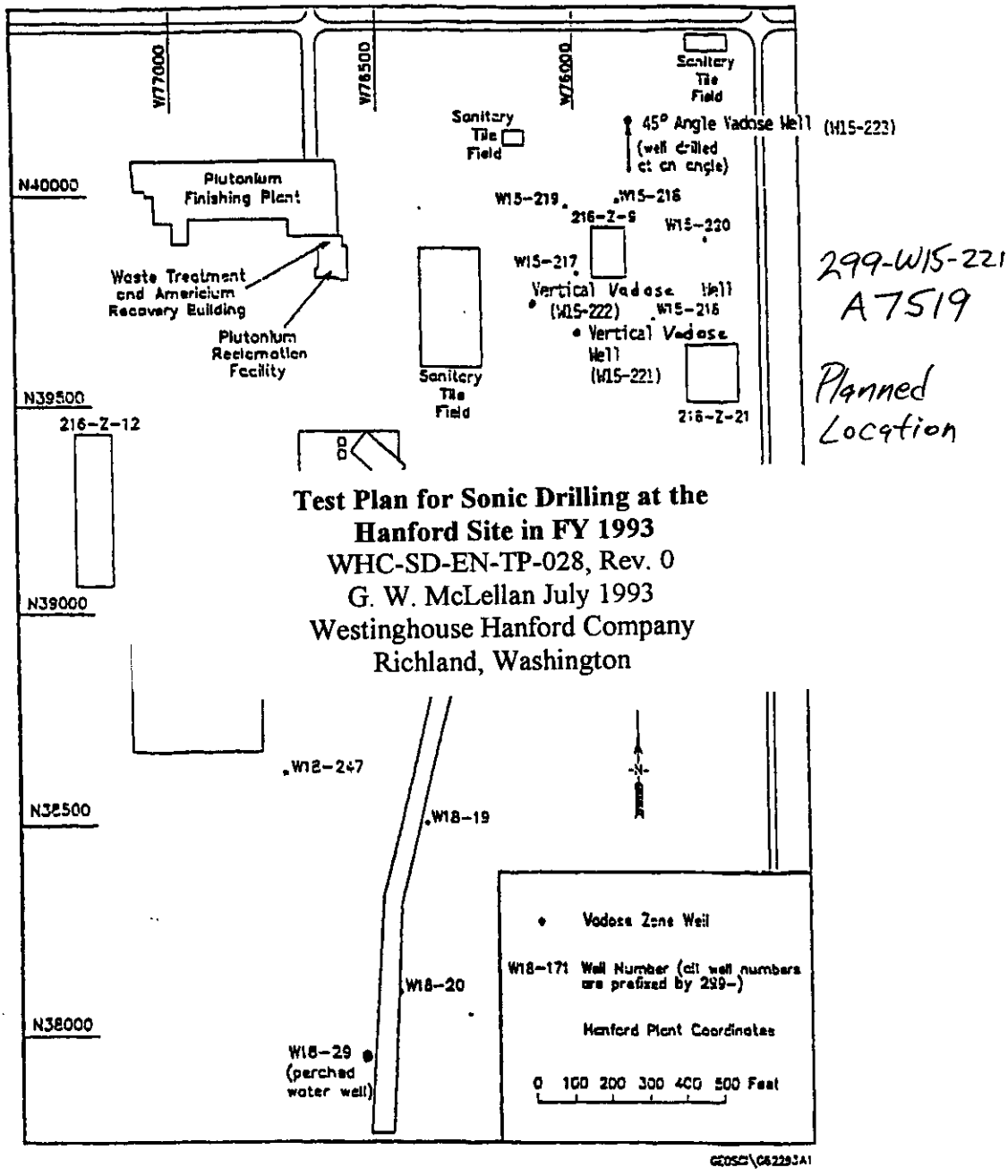
Approval: (Print/Sign Name and Date)

LO Amos / L.O. Amos 9-16-93

Project Engineer/Field Team Leader

299-W15-221
A7519

Figure 2. VOC-Arid Integrated Demonstration Site - Sonic Well Locations.



Test Plan for Sonic Drilling at the Hanford Site in FY 1993
WHC-SD-EN-TP-028, Rev. 0
G. W. McLellan July 1993
Westinghouse Hanford Company
Richland, Washington

dispositioned by WHC personnel per EII 4.3. All sonic drilling and related testing activities will be performed in compliance with the *Environmental Investigations and Site Characterization Manual*, WHC-CM-7-7, or WDC procedures approved by WHC QA.

Monitoring well and vapor injection/extraction wells will be placed according to WAC-173-160, *Minimum Standards For Construction and Maintenance of Wells*, or appropriate variances. A variety of well configurations may be used to achieve the objectives. The wells will be installed per WHC-S-014, Groundwater Monitoring Well-Generic Well Specification, Rev. 7. NOTE: The following sections do not apply because these are vapor extraction, not groundwater wells: Sections 4.2.3, 4.2.10, 5.3.1, 5.3.2, 5.3.3, 5.3.4, and 6.3; Appendices A and B also do not apply.

Each temporary well or boring will be abandoned to ensure protection of the groundwater resource and to prevent contamination of the resource (WAC 173-160-560). If abandonment regulations cannot be met, a variance will be obtained from Ecology.

299-W15-221
A7519
not drilled

8.3 TEST SITE RESTORATION

The test site(s) will be re
include the removal of all equipm
other activities either ongoing o
will be completed as appropriate.

Test Plan for Sonic Drilling at the Hanford Site in FY 1993
WHC-SD-EN-TP-028, Rev. 0
G. W. McLellan July 1993
Westinghouse Hanford Company
Richland, Washington

9.0 SITE SERVICES REQUIREMENTS

WHC organizations that will provide support to this demonstration include: Regulatory Analysis, Industrial Safety and Fire Protection, Quality Assurance, Environmental Protection, Health Physics, Environmental Safety Assurance, Inactive Facilities Surveillance and Maintenance.

All sites located for the sonic equipment should be stable enough for the sonic drill rigs to be moved on and off. The maximum weight of the large sonic drill rig is 75,000 pounds (truck length approximately 40 feet). If the sonic rig works into the evening hours, portable lights with adequate lumination will be provided for safety around the vehicle.

10.0 DELIVERABLES

This demonstration will culminate with a written report on the sonic system. A Lessons Learned Meeting will be conducted, documented, and included as an addendum prior to issuing the written report. The PI is responsible to the VOC-Arid ID Technology Coordinator for reporting results of this demonstration.

1.2 BACKGROUND

1.2.1 FY 1991-1992 Sonic Drilling Demonstration

Westinghouse Hanford Company is tasked with developing, testing, and demonstrating drilling methods that are environmentally acceptable, safe, more efficient, and cost effective, than the cable tool method when drilling and sampling in hazardous and radioactive waste sites. The sonic drilling system was tested in FY 1991-1992 under the Drilling Technology Development Program and the ER Program. The Drilling Technical Test Plan is administered and funded through the Office of Technology Development.

The *Integrated Test Plan for Demonstration of a Sonic Drilling System and the SEAMIST System* (Rohay and McLellan 1992) specified that the sonic system would be used to drill three deep monitoring/extraction wells near the carbon tetrachloride disposal sites in the 200 West Area in 1991-1992. Because of equipment problems with the contractor's sonic drilling system, only one deep well was drilled. The remaining two wells were drilled with the cable tool method.

299-W15-221 A7519 not drilled

In addition to the 200 W
Action (ERA) drilling, the so
characterization data at seve
Resource Conservation and Rec
Comprehensive Environmental R
Operable Unit, (3) the 300 Ar
Hanford Waste Vitrification P

Phase I ResonantSonic CRADA Report
WHC-SD-EN-TRP-007, Rev. 0
L. R. Richterich et al.
March 1994
Westinghouse Hanford Company
Richland, Washington

Field testing of the sonic drilling method was initiated at the 300-FF-5 Operable Unit in September 1991. The services of the sonic drilling contractor, Harrison Western Drilling, Inc. (HWD), of Lakewood, Colorado, were obtained through a subcontract. The testing was conducted using a trailer-mounted 1976 model of a Hawker-Siddeley sonic drill owned by HWD.

The sonic system was used to drill and complete eight groundwater wells, one carbon tetrachloride vapor extraction/monitoring well, and two vadose characterization boreholes. The wells/borings ranged from 9 m to 69 m (30 ft to 227 ft) in depth.

The average of eleven wells and borings drilled using the sonic method were compared with ten nearby wells completed using the cable tool method. The penetration rate with the sonic drill was approximately twice that of the cable tool drill. In addition, less soil had to be drummed because the sonic drill used no fluid or air for drilling. The sonic drill system experienced pipe failures and drill head failures, which limited its performance. Downtime resulting from equipment related failures averaged 28 percent for the sonic rig and four percent for cable tool. Still, the sonic method reduced drilling costs by approximately 20 percent (Volk, McLellan, and King 1992).

After the test program was complete, a lessons learned meeting was held, and the report was written. WHC and DOE agreed that equipment components needed to be enhanced. The preferred process to develop and test these improvements would be through a CRADA with an industrial partner.

299-W15-222
A7520

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
LL ID	A7520			NORTHING	
ELL NAME	299-W15-222	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
LLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
IPMENT 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)	
ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

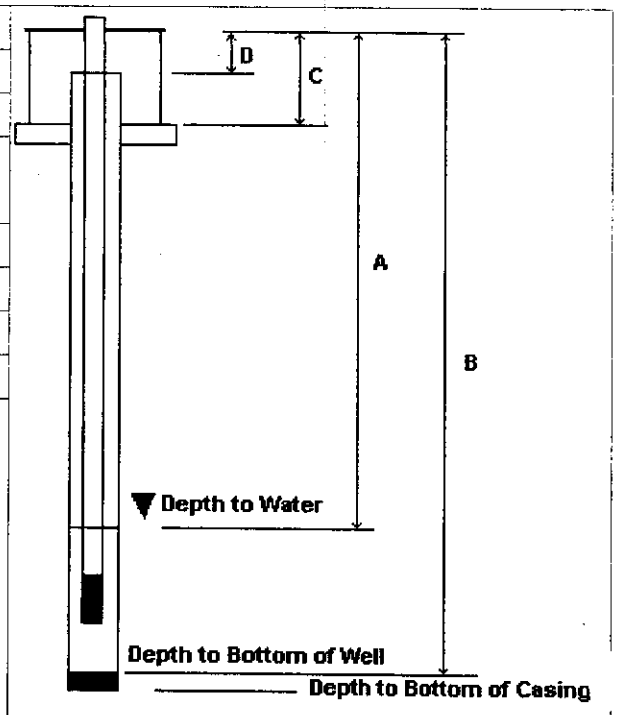
7/18/2005

WELL ATTRIBUTES REPORT

FLD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7520			NORTHING	
WELL NAME	299-W15-222	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

7/18/2005

Query HWIS again

HWIS Interface - Well History Information - Drilling

VELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7520	299-W15-222	01/01/1801					

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7520	299-W15-222	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7520	299-W15-222	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7520, Well Name: 299-W15-222					
A7520	0011372	DPF	1993-07-08 00:00:00.0	DRILLING PLANNING: SONIC TEST AT THE HANFORD SITE	NA
A7520	0011795	PFC	1993-07-16 00:00:00.0	RADIATION SURVEY REPORT	NA

not available electronically

5.1.5

DRILLING PLANNING

200-ZP-2

200W CARBON TET

00113322

Work Scope Description: SONIC TEST AT THE HANFORD SITE

List Borehole Designation(s): VOC-ARID ID: ID 06, VEX 04, VEX 05

Reference: WHC-SD-EN-TP-028 Rev: 0 Date Approved: 7/8/93

	Print/Sign Name and Date
Cultural Resource Review/Clearance (WHC-CM-7-5, 12.3)	L.O. Amos 9-15-93 / G.W. McGeller 11/22/89
Environmental Assessment/NEPA Documentation (WHC-CM-7-5, 4.0)	G.W. McGeller 9/15/93
Excavation Permit (WHC-CM-4-3, CM-8/WHC-CM-8-7, 503.1)	LO Amos/L.O. Amos 9/10/93
Start Card(s) (WAC 173-160)	LO Amos/L.O. Amos 9/15/93
Hazardous Waste Operations Permit/Site Safety Plan (WHC-CM-4-3, Vol. 4/EII 2.1)	G.W. McGeller 7-20-93
Radiation Work Permit/ALARA Management Worksheet (WHC-CM-4-10, 8.0/WHC-CM-4-11)	N/A G.W. McGeller 7-20-93
Davis-Bacon Act Determination (WHC-CM-8-8, JCS-6)	G.W. McGeller 6-10-93
Safety Assessment WCH-CM-4-3, HWD-1	G.W. McGeller 3-12-93
Confined Space Entry Permit (WHC-CM-4-40, 3.1)	N/A G.W. McGeller 7-20-93
Personnel Training (EII 1.1)	LO Amos/L.O. Amos 9-16-93
Site Evaluation Letter (WHC-CM-8-7, 905)	N/A
Hazard Classification (WHC-CM-4-46, 4.0)	G.W. McGeller 3-12-93
ALARA Checklist (WHC-CM-4-11)	N/A G.W. McGeller 7-20-93
Waste Disposal Planning (EII 4.2 or 4.3)	LO Amos/L.O. Amos 9-16-93
Letter of Instruction (WHC-CM-6-2, PM-10/EII 1.15)	G.W. McGeller
Mechanical Equipment Ready to Support Operations	[illegible] 9-16-93
Develop/Revise Procedures and Protocol	N/A
Sonic Test Plan WHC-SD-EN-TP-028 Rev. 0	G.W. McGeller 7/9/93
Site Access Agreement (WDC-WHC)	G.W. McGeller 7/19/93

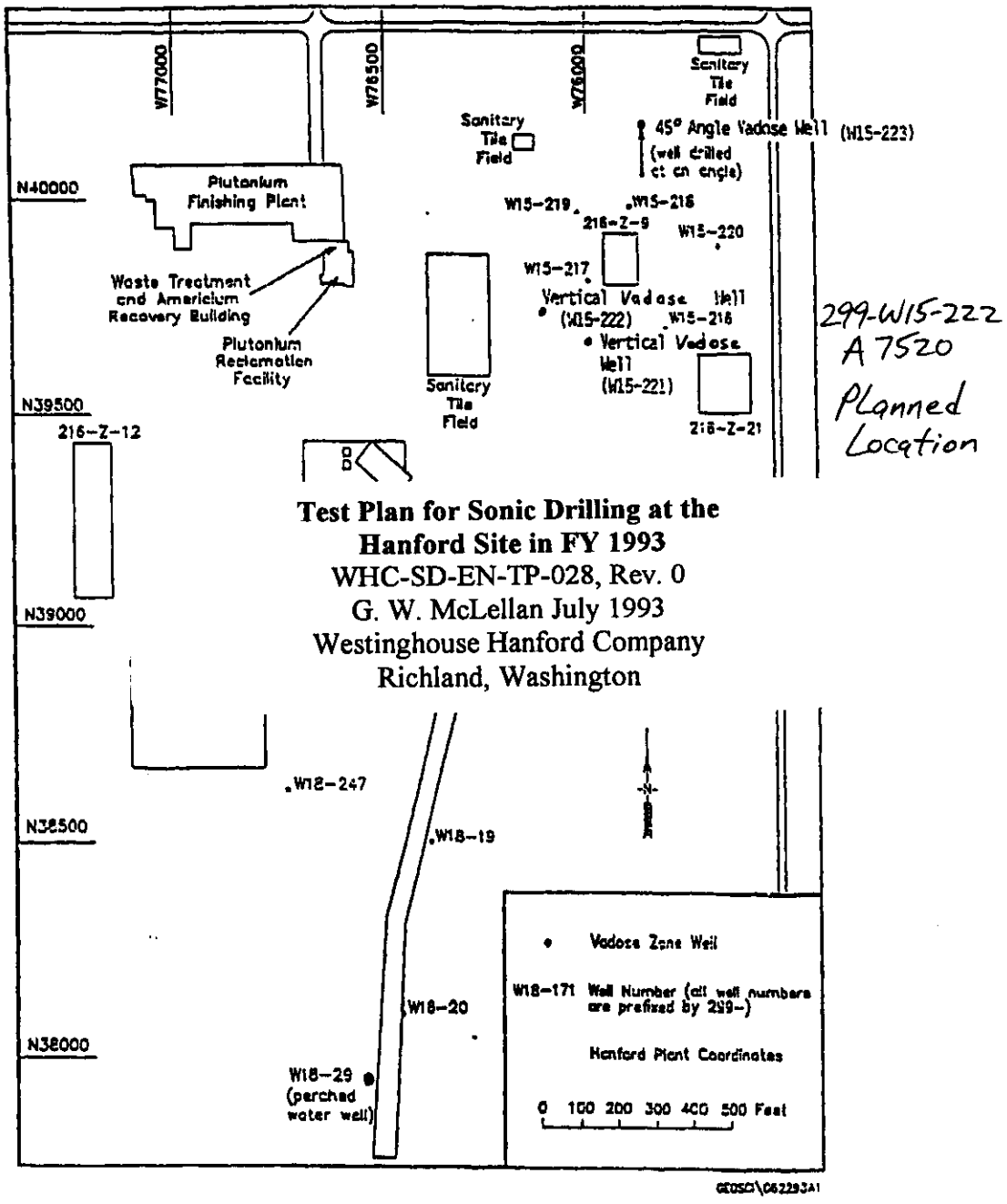
Approval: (Print/Sign Name and Date)

LO Amos / L.O. Amos 9-16-93

Project Engineer/Field Team Leader

A-6000-422 (04/93)

Figure 2. VOC-Arid Integrated Demonstration Site - Sonic Well Locations.



Test Plan for Sonic Drilling at the Hanford Site in FY 1993
WHC-SD-EN-TP-028, Rev. 0
G. W. McLellan July 1993
Westinghouse Hanford Company
Richland, Washington

dispositioned by WHC personnel per EII 4.3. All sonic drilling and related testing activities will be performed in compliance with the *Environmental Investigations and Site Characterization Manual*, WHC-CM-7-7, or WDC procedures approved by WHC QA.

Monitoring well and vapor injection/extraction wells will be placed according to WAC-173-160, *Minimum Standards For Construction and Maintenance of Wells*, or appropriate variances. A variety of well configurations may be used to achieve the objectives. The wells will be installed per WHC-S-014, Groundwater Monitoring Well-Generic Well Specification, Rev. 7. NOTE: The following sections do not apply because these are vapor extraction, not groundwater wells: Sections 4.2.3, 4.2.10, 5.3.1, 5.3.2, 5.3.3, 5.3.4, and 6.3; Appendices A and B also do not apply.

Each temporary well or boring will be abandoned to ensure protection of the groundwater resource and to prevent contamination of the resource (WAC 173-160-560). If abandonment regulations cannot be met, a variance will be obtained from Ecology.

299-W15-222 A7520 Plan

8.3 TEST SITE RESTORATION

The test site(s) will be re
include the removal of all equipm
other activities either ongoing o
will be completed as appropriate.

Test Plan for Sonic Drilling at the Hanford Site in FY 1993
WHC-SD-EN-TP-028, Rev. 0
G. W. McLellan July 1993
Westinghouse Hanford Company
Richland, Washington

9.0 SITE SERVICES REQUIREMENTS

WHC organizations that will provide support to this demonstration include: Regulatory Analysis, Industrial Safety and Fire Protection, Quality Assurance, Environmental Protection, Health Physics, Environmental Safety Assurance, Inactive Facilities Surveillance and Maintenance.

All sites located for the sonic equipment should be stable enough for the sonic drill rigs to be moved on and off. The maximum weight of the large sonic drill rig is 75,000 pounds (truck length approximately 40 feet). If the sonic rig works into the evening hours, portable lights with adequate lumination will be provided for safety around the vehicle.

10.0 DELIVERABLES

This demonstration will culminate with a written report on the sonic system. A Lessons Learned Meeting will be conducted, documented, and included as an addendum prior to issuing the written report. The PI is responsible to the VOC-Arid ID Technology Coordinator for reporting results of this demonstration.

1.2 BACKGROUND

1.2.1 FY 1991-1992 Sonic Drilling Demonstration

Westinghouse Hanford Company is tasked with developing, testing, and demonstrating drilling methods that are environmentally acceptable, safe, more efficient, and cost effective, than the cable tool method when drilling and sampling in hazardous and radioactive waste sites. The sonic drilling system was tested in FY 1991-1992 under the Drilling Technology Development Program and the ER Program. The Drilling Technical Test Plan is administered and funded through the Office of Technology Development.

The *Integrated Test Plan for Demonstration of a Sonic Drilling System and the SEAMIST System* (Rohay and McLellan 1992) specified that the sonic system would be used to drill three deep monitoring/extraction wells near the carbon tetrachloride disposal sites in the 200 West Area in 1991-1992. Because of equipment problems with the contractor's sonic drilling system, only one deep well was drilled. The remaining two wells were drilled with the cable tool method.

299-W15-222 A7520 not drilled

In addition to the 200 W
Action (ERA) drilling, the so
characterization data at seve
Resource Conservation and Rec
Comprehensive Environmental R
Operable Unit, (3) the 300 Ar
Hanford Waste Vitrification P

Phase I ResonantSonic CRADA Report
WHC-SD-EN-TRP-007, Rev. 0
L. R. Richterich et al.
March 1994
Westinghouse Hanford Company
Richland, Washington

Field testing of the sonic drilling method was initiated at the 300-FF-5 Operable Unit in September 1991. The services of the sonic drilling contractor, Harrison Western Drilling, Inc. (HWD), of Lakewood, Colorado, were obtained through a subcontract. The testing was conducted using a trailer-mounted 1976 model of a Hawker-Siddeley sonic drill owned by HWD.

The sonic system was used to drill and complete eight groundwater wells, one carbon tetrachloride vapor extraction/monitoring well, and two vadose characterization boreholes. The wells/borings ranged from 9 m to 69 m (30 ft to 227 ft) in depth.

The average of eleven wells and borings drilled using the sonic method were compared with ten nearby wells completed using the cable tool method. The penetration rate with the sonic drill was approximately twice that of the cable tool drill. In addition, less soil had to be drummed because the sonic drill used no fluid or air for drilling. The sonic drill system experienced pipe failures and drill head failures, which limited its performance. Downtime resulting from equipment related failures averaged 28 percent for the sonic rig and four percent for cable tool. Still, the sonic method reduced drilling costs by approximately 20 percent (Volk, McLellan, and King 1992).

After the test program was complete, a lessons learned meeting was held, and the report was written. WHC and DOE agreed that equipment components needed to be enhanced. The preferred process to develop and test these improvements would be through a CRADA with an industrial partner.

299-W18-34
A9996

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A9996			NORTHING	
WELL NAME	299-W18-34	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

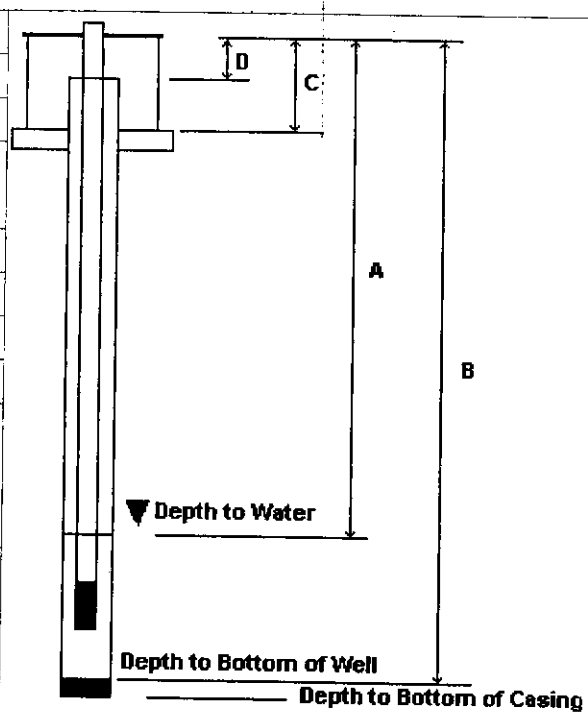
7/18/2005

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A9996			NORTHING	
VELL NAME	299-W18-34	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

7/18/2005

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A9996	299-W18-34	01/01/1801					

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A9996	299-W18-34	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A9996	299-W18-34	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A9996, Well Name: 299-W18-34					
A9996	-- No information available --				

299-W18-50
A7533

WELL ATTRIBUTES REPORT

TELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7533			NORTHING	
ELL NAME	299-W18-50	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
OLLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
IPMENT 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)	
ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

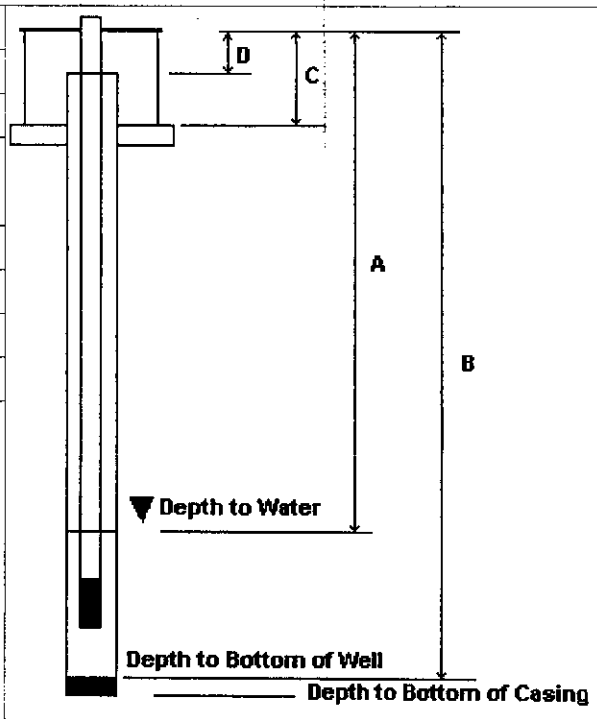
7/18/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7533			NORTHING	
WELL NAME	299-W18-50	CONST DATE		EASTING	
HOST WELL ID		CONST DEPTH		ELEVATION	

MEASUREMENT INFORMATION

		LAST	CURRENT
A	DEPTH TO WATER(ft)		
B	DEPTH TO WATER DATE 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

7/18/2005

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
299-W18-24		38998.00	684.35	240.0	S	4.0	205.5	235.5	
GW		-77180.00	4.0	240.0	S	8.0	230.0	240.0	
H			8/87	211.8					
299-W18-25	134978.22	37786.00	666.04	215.4	S	4.0	193.5	214.8	
GW	566721.48	-76034.00	4.0	214.8					
H			12/90	193.8					
299-W18-26	135492.00	39477.10	699.05	249.9	S	4.0	222.2	243.3	
GW	566091.60	-78096.60	4.0	243.3					
H			12/89	227.1					
299-W18-27	135226.80	38607.00	690.25	238.5	S	4.0	216.6	237.7	
GW	566090.50	-78103.00	4.0	237.7					
H			5/91	219.2					
299-W18-28	135107.10	38214.00	679.99	229.7	S	4.0	208.1	229.2	
GW	566092.90	-78096.00	4.0	229.7					
H			5/91	209.4					
299-W18-29	135028.40	37952.00	674.14	150.0	S	4.0	119.0	135.0	
GW	566561.20	-76560.00	4.0	135.0					
H			6/91	121.9					
299-W18-30	135193.95		672.84	235.3	S	4.0	197.5	234.3	
GW	566871.07		4.0	234.3					
H			11/91	201.2					
			64.16	227.6	S	4.0	187.3	222.3	
			4.0	222.3					
			12/91	192.3					
				225.0	S	4.0	201.7	222.1	PART OF 10" CASING SHOE IN HOLE
			4.0	222.1					AT ~210'. NCR #B06886.
			7/92	206.0					
			68.91	231.5	S	4.0	198.5	228.3	
			4.0	228.3					
			6/93	200.9					N
299-W18-50			664.38						
VW									
299-W18-51		37822.00	666.74	151.0	P	10.0	48.0	148.0	
VW		-75700.00	10.0	152.0					
			10/44						241-U-136

Hanford Wells
PNL-8800 UC-903
M. A. Chamness & J. K. Merz
August 1993
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Query HWIS again

HWIS Interface - Well History Information - Drilling

VELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7533	299-W18-50	01/01/1801					

Query HWIS again

HWIS Interface - Well History Information - Current Status

VELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7533	299-W18-50	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7533	299-W18-50	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7533, Well Name: 299-W18-50					
A7533	-- No information available --				

299-W19-66
A7766

WELL ATTRIBUTES REPORT

'ELD ORDER NO				LAST INSPECTION	1/1/1801
:LL ID	A7766			NORTHING	
,ELL NAME	299-W19-66	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
'LLAPSED CASING	☐ YES ☐ NO ☑ ND*	COLLAPSED CASING	☐ YES ☐ NO
IIPMENT 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)	
'ING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented

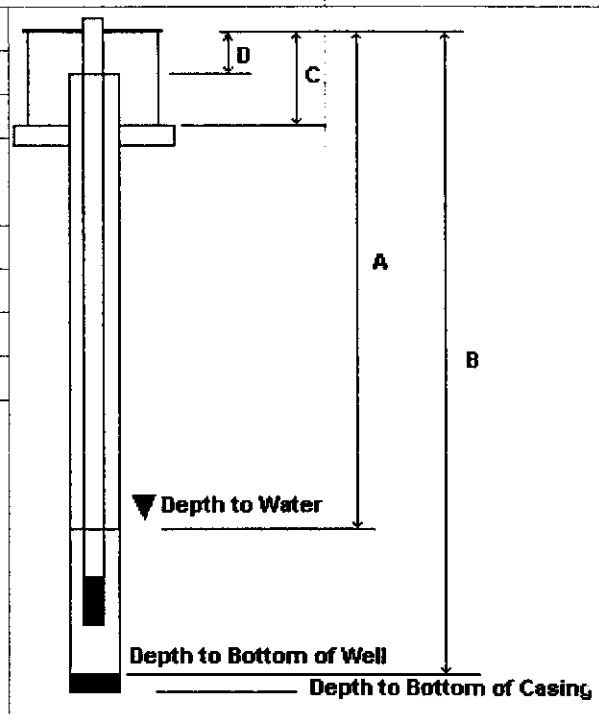
7/18/2005

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7766			NORTHING	
WELL NAME	299-W19-66	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

7/18/2005

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
299-W19-66			692.00						CASING REMOVED
AB			4.0						
			6/48						11-200W
				11.0					CASING REMOVED
				11.0					
									12-200W
				20.0					CASING REMOVED
				20.0					
									13-200W
				49.0					
				49.0					
			1/51						216-WR-1
299-W19-70		36860.00	692.00	105.0					
VW		-73100.00	8.0	105.0					
			1/51						216-WR-2
299-W19-71		36800.00	692.00	117.0					
VW		-73100.00	8.0	117.0					
			1/51						216-WR-3
299-W19-72		37859.00	705.00	50.0					
VW		-74247.00	8.0	50.0					
			2/51						216-U-1
299-W19-73		37859.00	705.00	50.0					
VW		-74322.00	8.0	50.0					
			3/51						216-U-2
299-W19-74		38017.00	668.45	125.0					
VW		-75594.00	6.0						
			8/74						
299-W19-75		37920.00	667.00	105.0					
VW		-75600.00	6.0						
			2/76						
299-W19-76		38095.00	668.89	125.0					
VW		-75593.00	6.0						
			8/74						
299-W19-78				40.0	P	1.0	7.0	37.0	VERTICAL CRIB TEST WELL
VW			1.0						
			4/82						

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Query HWIS again

HWIS Interface - Well History Information - Drilling

/ELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7766	299-W19-66	06/30/1948					

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7766	299-W19-66	CANDIDATE FOR DECOMMISSIONING	10/15/2007	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7766	299-W19-66	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7766, Well Name: 299-W19-66					
A7766	-- No information available --				

299-W22-68
A7875

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7875			NORTHING	
WELL NAME	299-W22-68	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

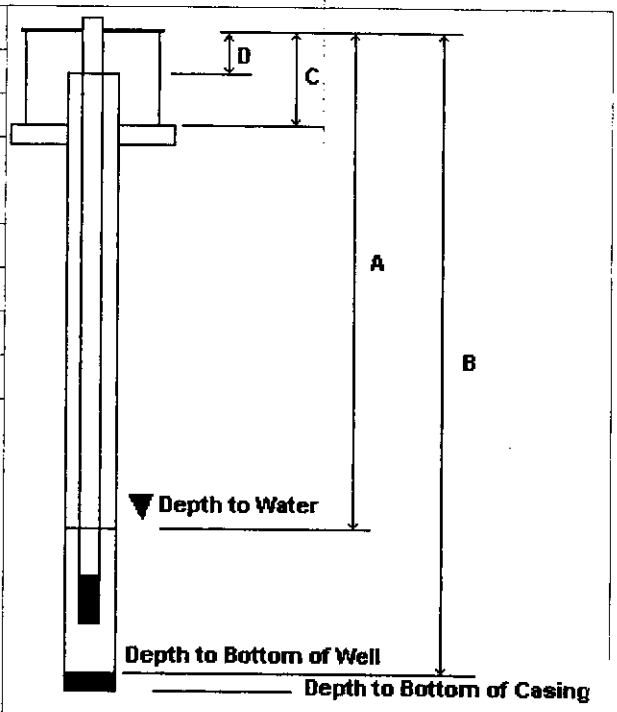
7/18/2005

WELL ATTRIBUTES REPORT

'ELD ORDER NO				LAST INSPECTION	1/1/1801
:LL ID	A7875			NORTHING	
WELL NAME	299-W22-68	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

7/18/2005

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
299-W22-59		35955.00	689.00	30.0					
VW		-73170.00	8.0	30.0					
			12/48						REDOX 9
299-W22-60		36125.00	689.00	30.0					
VW		-73150.00	8.0	30.0					
			12/48						REDOX 10
299-W22-61		34296.00	680.00	121.0					
VW		-73300.00	8.0	121.0					
			12/50						219-S-1
299-W22-62		36700.00	690.00	50.0					CASING REMOVED
AB		-73100.00	8.0	50.0					
			9/50						C-362-2
299-W22-63		34296.00	678.00	122.0					
VW		-73260.00	8.0	122.0					
			12/50						219-S-2
[illegible]			10.00	50.0					CASING REMOVED
			8.0	50.0					
			8/50						219-S-1 T.H.
			8.00	50.0					CASING REMOVED
			8.0	50.0					
			8/50						219-S-2 T.H.
			7.00	115.0					
			6.0						
			9/66						299-W22-11A
299-W22-68									
VW									
299-W22-70			678.00	65.0					GROUTED
VW			6.0	65.0					
			8/77						
299-W22-73		36339.00		60.0					GROUTED
VW		-73120.00	8.0						
			3/82						
299-W22-74		34330.00		174.0					GROUTED
VW		-73330.00	8.0	173.0					
			12/82						

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Query HWIS again

HWIS Interface - Well History Information - Drilling

ELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7875	299-W22-68	01/01/1801					

Query HWIS again

HWIS Interface - Well History Information - Current Status

ELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7875	299-W22-68	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7875	299-W22-68	-- No information available --						

Available Documents:

,ell ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7875, Well Name: 299-W22-68					
A7875	NA	DLG	1974-08-18 00:00:00.0	DRILL LOG (KEH)	NA
A7875	NA	DLG	1974-08-18 00:00:00.0	DRILL LOG (KEH)	NA

DRILL LOG	BY Bishop	RIG 22W #5	WELL NUMBER W-68	COMPUTER NUMBER	PROJECT OR NO.	SEN NO.
	DATE 2/18/74		DEPTH 80 TO 105		SUBCONTRACT NO.	

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
79'	25'-25'6"	D	Dry	Silty Fine to Med Sand	D	16 Blows 6"
6				It Brown		
25'	26'6"-30'	D	Dry	SAME MATERIAL	D	24 Blows 6"
7	30'-30'5"	PEN		SAME	PEN. SAMP	50 Blows 5"
32'						
7	35'-35'6"	D	Dry	SAME MATERIAL	D	18 Blows 6"
39'						
7	39'6"-40'	D	Dry	SAME MATERIAL	D	22 Blows 6"
106'	100'-100'5"			SAME	PEN. SAMP	50 Blows 5"
	105'-105'6"	D	Dry	SAME MATERIAL	D	21 Blows 6"

299-W22-68
A7875

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	BY Bigham	RIG 22 W #5	WELL NUMBER W 2	COMPUTER NUMBER	PROJECT OR WORK ORDER NO.
	DATE 2/19/74		DEPTH 105 TO 185		SUBCONTRACT N

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
106'	107½"-110	D	Dry	Silty Fine to Med Sand	D	22 Blows 6"
6'				Lt Brown		
112'	110'-110½"			Same material	Pen Samp	50 Blows 4"
7'						
119'	117½"-115	D	Dry	Same material	D	21 Blows 6"
6'						
125'	119½"-120	D	Dry	Same material	D	21 Blows 6"
7'	120'-120½"			Same material	Pen Samp	50 Blows 4"
132'						
7	126-125	D	Dry	Same material	D	18 Blows 6"
139'						
	129½"-130	D	Dry	Silt layers & silty F to M. Sand	D	24 Blows 6"
	130'-130'3"			Same	Pen Samp	50 Blows 3"
	135'-135'6"	D		Same material	D	21 Blows 6"

299-W22-68
A7875

REMARKS:

S-SPLIT 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 Fabrom	RIG 22W	WELL NUMBER W22	68	COMPUTER NUMBER	PROJECT OR NO.	ORDER NO.
	DATE 2/12/84	#5	DEPTH 155	TO 155		SUBCONTRACT NO.	

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
87'	140-140'6"	D	Dry	silt	D	17 Blows 6"
7	140'6"-140'11.5"			silt	Pen. Samp	50 Blows 5-½"
146'						
7	146-149'1"	D	Dry	silt layers - silty fine sand	D	18 Blows 6"
155'						
	149'6"-150	D	Dry	SAME MATERIAL	D	17 Blows 6"
	150-155'5"			SAME MATERIAL	Pen. Samp	50 Blows 5"

299-W22-68
A7875

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

299-W22-70
A7876

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION	1/1/1801
WELL ID	A7876			NORTHING	
WELL NAME	299-W22-70	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

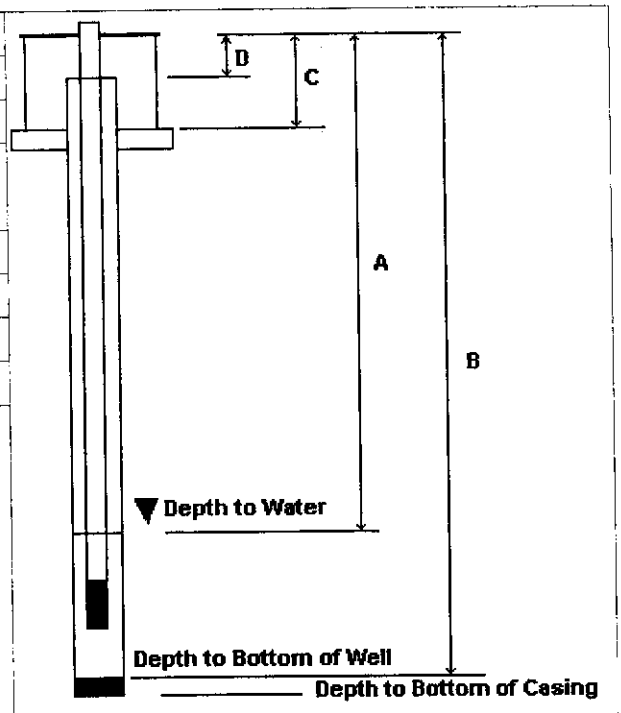
7/18/2005

WELL ATTRIBUTES REPORT

ELD ORDER NO				LAST INSPECTION	1/1/1801
ELL ID	A7876			NORTHING	
WELL NAME	299-W22-70	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)	65	
	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

7/18/2005

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
299-W22-59		35955.00	689.00	30.0					
VW		-73170.00	8.0	30.0					REDOX 9
			12/48						
299-W22-60		36125.00	689.00	30.0					
VW		-73150.00	8.0	30.0					REDOX 10
			12/48						
299-W22-61		34296.00	680.00	121.0					
VW		-73300.00	8.0	121.0					219-S-1
			12/50						
299-W22-62		36700.00	690.00	50.0					CASING REMOVED
AB		-73100.00	8.0	50.0					C-362-2
			9/50						
299-W22-63		34296.00	678.00	122.0					
VW		-73260.00	8.0	122.0					219-S-2
			12/50						
299-W22-65		34296.00	680.00	50.0					CASING REMOVED
AB		-73297.00	8.0	50.0					219-S-1 T.H.
			8/50						
299-W22-66		[illegible]	00	50.0					CASING REMOVED
			0	50.0					219-S-2 T.H.
			50						
			00	115.0					
			0						299-W22-11A
			66						
299-W22-70			678.00	65.0					GROUTED
VW			6.0	65.0					
			8/77						
299-W22-73		36339.00		60.0					GROUTED
VW		-73120.00	8.0						
			3/82						
299-W22-74		34330.00		174.0					GROUTED
VW		-73330.00	8.0	173.0					
			12/82						

Hanford Wells
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Query HWIS again

HWIS Interface - Well History Information - Drilling

'ELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A7876	299-W22-70	08/31/1977		65	ft		

Query HWIS again

HWIS Interface - Well History Information - Current Status

VELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A7876	299-W22-70	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 admin decomm no survey coordinates

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A7876	299-W22-70	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A7876, Well Name: 299-W22-70					
A7876	NA	DLG	1977-07-26 00:00:00.0	DRILL LOG (KEH)	NA
A7876	NA	DLG	1977-07-27 00:00:00.0	DRILL LOG (KEH)	NA

DRI' .OG

Wilkins

DATE 7/26/77

299 - W 22 - 70

DEPTH 0 TO 30'

JH - 85C

SUBCONTRACT

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
				Moved & Set Rig		
				Drilled from 0' to 30'		
				Hit Some Cement		
				2:30 to 4:30 Waiting to		
				See if We Should Drill		
				through it		
				2 HRS. STANDBY		
				299-W22-70 (A7876)		

REMARKS:

A-5000-021 (4)

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

DRIL 1G

Bullem

DATE 7/27/77

W-22-70

DEPTH 30 TO 30'

SUBCONTRACT

TOTAL CASING	DEPTH	DRILL METHOD	WET/DRY SAMPLE	LITHOLOGIC DESCRIPTION % EACH GRAIN SIZE, COLOR, ROUNDNESS, CALICHE, ETC.	TIME	DRILLING COMMENTS
				Got tools Stuck In		
				Casing Worked All Day		
				To Get Them Out		
				299-W22-70 (A7876)		

REMARKS:

A-6000-021 (

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

699-17-26D
A8364

WELL ATTRIBUTES REPORT

WELL ID	A8364	**NORTHING**		**FIELD ORDER NO**	
WELL NAME	699-17-26D	**EASTING**		**LAST INSPECTION**	1/1/1801
HOST WELL ID		**ELEVATION**		**CONST DATE**	
GW OPERABLE UNIT		**DRILL DATE**	12/31/1981	**CONST DEPTH**	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION

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

CURRENT INSPECTION INFORMATION

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

LAST PUMP INFORMATION

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

CURRENT PUMP INFORMATION

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

LAST TUBING INFORMATION

TUBING SIZE (in)	
TUBING MATERIAL	
TUBING LENGTH (ft)	
TUBING CONNECTION	

CURRENT TUBING INFORMATION

TUBING SIZE (in)	
TUBING MATERIAL	
TUBING LENGTH (ft)	
TUBING CONNECTION	

LAST MEASUREMENT INFORMATION

DEPTH TO WATER(ft)			
DEPTH TO WATER DATE			
DEPTH TO BOTTOM(ft)	136		
DEPTH TO BOTTOM DATE			
STICK UP(ft)			
REFERENCE MARK(ft)			
REFERENCE MARK IS TOC	☐ YES	☐ NO	☑ ND

CURRENT MEASUREMENT INFORMATION

DEPTH TO WATER(ft)		
DEPTH TO WATER DATE	__/__/____	
DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE	__/__/____	
STICK UP(ft)		
REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	☐ YES	☐ NO

ND* - Not Documented

WELL ATTRIBUTES REPORT

WELL ID	A8364	NORTHING		FIELD ORDER NO	
WELL NAME	699-17-26D	EASTING		LAST INSPECTION	1/1/1801
HOST WELL ID		ELEVATION		CONST DATE	
GW OPERABLE UNIT		DRILL DATE	12/31/1981	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

ND* - Not Documented

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
699-17-26BP GW		16664.00 -26188.00	518.02 .8 7/81	290.0	P	.8	268.0	288.0	PIEZOMETER PH-5
699-17-26BQ GW		16664.00 -26188.00	518.61 2.0		P	2.0	156.0	161.0	PIEZOMETER PH-5
699-17-26BR GW		16664.00 -26188.00	518.38 2.0 7/81	130.0	P	2.0	120.0	125.0	PIEZOMETER PH-5
699-17-26CP GW		16867.00 -26086.00	515.89 2.0 7/81	196.0	P	2.0	186.0	191.0	PIEZOMETER PH-6
699-17-26CQ GW		16867.00 -26086.00	515.87 2.0		P	2.0	155.0	160.0	PIEZOMETER PH-6
699-17-26CR GW		16867.00 -26086.00	515.79 2.0 7/81	130.0	P	2.0	120.0	125.0	PIEZOMETER PH-6
699-17-26D GW			6.0 12/81	136.0 117.0					
699-17-26E GW									
699-17-26F SW									E-1
699-17-26G GW									699-17-26, E-19
699-17-26H SW			6.0 12/81						E-20
699-17-27 GW			6.0 12/81	149.0 129.0					

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Query HWIS again

HWIS Interface - Well History Information - Drilling

VELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS	SOUF
A8364	699-17-26D	12/31/1981					

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A8364	699-17-26D	CANDIDATE FOR DECOMMISSIONING	05/09/2002	FY 2008 Field Inspection 12/27-33A2 ~N17444, W25600 transformed Easting 582110.542 Transformed Northing 128819.763 transformation model: 2-pt

Query HWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS
A8364	699-17-26D	-- No information available --						

Query HWIS again

Available Documents:

Well ID	Document Number	Document Type	Date	Description	Rev
Well ID: A8364, Well Name: 699-17-26D					
A8364	NA	BL	1993-08-01 00:00:00.0	BOREHOLE LOG	NA

699-17-26D (E-4)
Location: ~N17444, W25600 12/27-33A2
Surface Elevation: 516.9
Hollow stem auger (to 85 ft.) & air rotary, drilled by Carman Water Wells for NESCO, 1981, foundation test boring

Material (38)	Thickness	Depth
Loose, dark-yellowish-brown to olive-gray, slightly silty fine to medium sand	8	8
Medium dense to dense, varicolored to olive-black, clean, fine to medium sand . .	20	28
Very dense, varicolored to olive-black, clean, fine to medium sand	50	78
Very dense, varicolored to olive-black, clean, gravelly fine to coarse sand	12	90
Very dense, varicolored to olive-black, clean, sandy fine to coarse gravel	37	127

699-17-26D
A8364

HANFORD WELLS
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