## INTERIM CHANGE NOTICE (ICN)

A. Document No.: PNNL-13612	Revision No.: 1		Effective Date of ICN: <u>7/20/03</u>
Document Title: Groundwater Quality Assessi Management Area U	ment Plan for Single-Shell Tan	k Waste	Date of ICN: <u>1120/05</u>
Document's Original Author: R. M. Smith, F	N. Hodges, B. A. Williams		
,			Change Requested By: R. M. Smith
B. Action: Make changes in the WMA U groundwater quality the front of the document, just before the title page		in Section D be	elow. Attach this ICN to
C. Effect of Change: This ICN updates the assessment plan to reflect the and sampling schedule for WMA U.	e current wells in the monitoring	ng system and t	he current constituent list
D. Reason for Change/Description of Change:			
Reason for Change: New wells have been constructed at WMA U and source in the WMA. Constituents present in grour source other than the WMA have been removed from 1 and ZP-1 Operable Units.	ndwater beneath the WMA that	t are part of a re	egional plume with a
Description of Change:  Replace page 5 of the original document with the Replace page 31 of the original document with 3. Add well construction and completion summarised of Appendix B.	the attached page 31 which she	ows a revised T	Table 5.2.
E. Document Management Decisions: The original information release form is unavailab ICN, Stuart Luttrell and Mary Hartman will sign a	le, thus, we do not know who a	approved the or	riginal document. For this
The attached distribution list shows the current sta original document	ff who will receive this ICN a	s it may vary fr	om the distribution of the
F. Approval Signatures (Please Sign and Date)		Type of Chang	e: (Check one):
Task Manager:	7/23/03	Minor	∕ Major
Project Quality Engineer: Thomas & W	alken		Date: 7/28/03
Other Approvals:  R. M. Smith			Date: 7/23/03
M. J. Hartman			

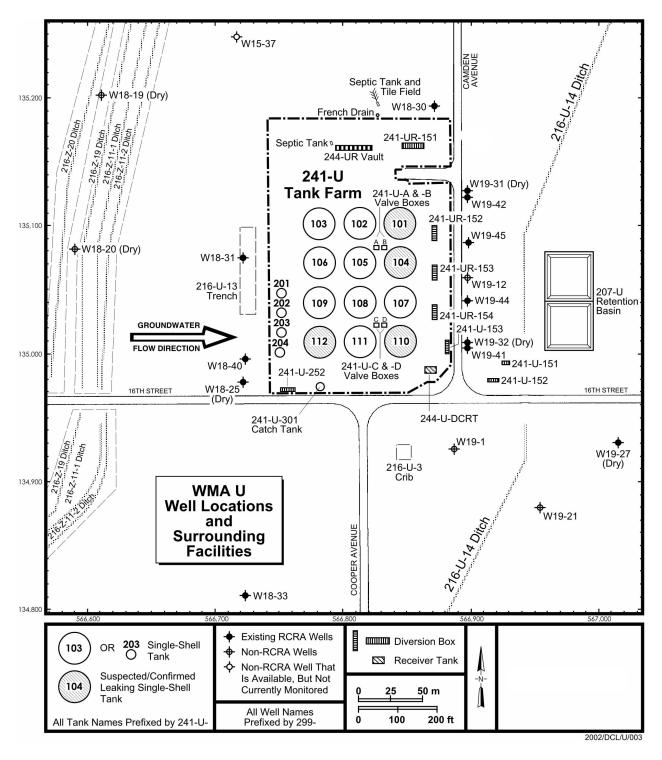


Figure 2.1. Waste Management Area U and Regulated Structures

Scan<sup>(b)</sup> Anions (chloride, fluoride, nitrate, nitrite, and sulfate) Specific Conductance Gross Alpha/Beta<sup>(b)</sup> Low-Level Gamma Technetium-99<sup>(b)</sup> Well Temperature Water Level Alkalinity 299-W18-30 Q A Q 299-W18-31 Q Q Q Q Q Q Q A Q 299-W18-40 Q Q Q Q Q Q Q A A Q

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**Table 5.2**. Sampling Frequency and Constituent List

Note: Sampling and analysis frequency is Q for quarterly (February, May, August, and November) and A for annual (February).

Q

Q

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Q

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Q

Q

Q

- (a) Metals include Al, Sb, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Mg, Mn, Ni, K, Ag, Na, Sr, V, Zn.
- (b) These are non-RCRA regulated constituents and are included because they are analyzed to aid in source determination and contaminant movement.

## 5.4 Groundwater Flow

299-W19-12

299-W19-41

299-W19-42

299-W19-44

299-W19-45

Q

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Q

Q

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Q

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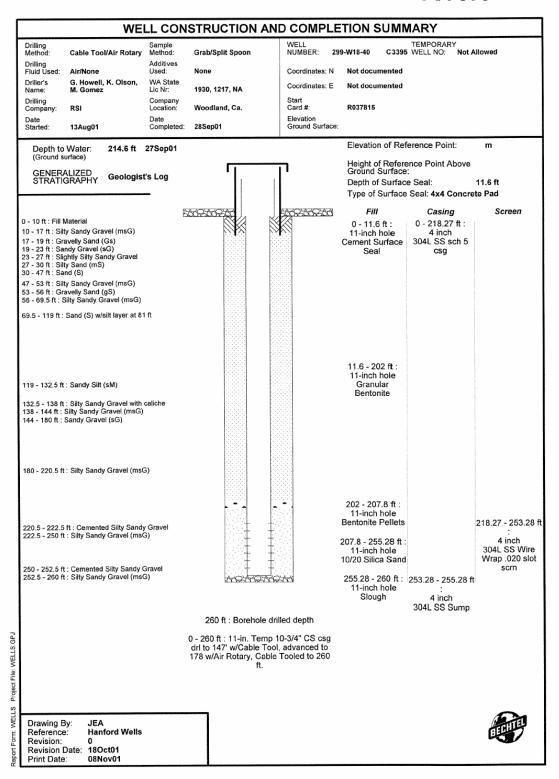
Q

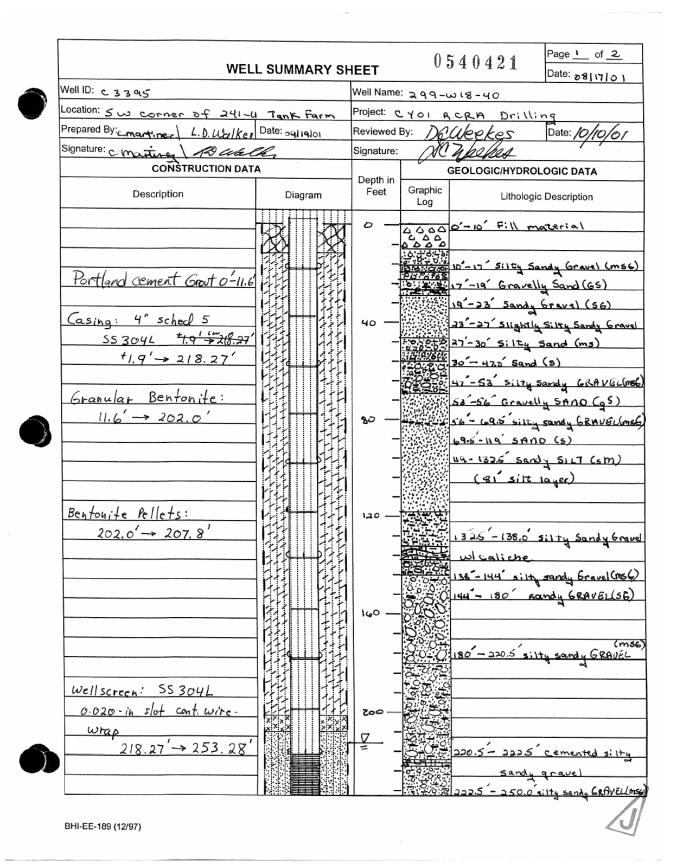
Q

Groundwater flow direction and rate must be determined regularly. These properties are determined several ways, but the standard method for this WMA has been to measure water levels in surrounding monitoring wells. Water levels will continue to be measured on a quarterly basis in all WMA U monitoring wells. These data will be converted to elevations and evaluated using trend surface analysis and shown as a water table map. Groundwater flow velocity, v, will be estimated using the Darcy equation.

Slug tests will be conducted at all new wells to determine hydraulic conductivity. Additional aquifer testing such as vertical flow tracer tests may be conducted in the future if detected contamination increases rapidly or to levels well above the drinking water standard.

#### 0540435





WEI	L CUMMADY OF				Page 2 of 2
	L SUMMARY SI	Date: 04(14(8)			
Well ID: C 3395		Well Name			
Location: Sw Corner of 241-4		Project: e	YOI RO	er prilling	T
Prepared By martines LD Walker	Date: oqliqlo i	Reviewed	By:	Weekes	Date: 10/10/01
Signature: c. martinez Muleches	for LDWalker	Signature:	XC.	Weekes	
CONSTRUCTION DAT	A	Depth in		GEOLOGIC/HYDROL	OGIC DATA
Description	Diagram	Feet	Graphic Log	Lithologic	Description
Sandpack:		240			
10-20 mesh silica 207.8' -> 257.8'		_		250.0'-2525'0	7
207.8 - 237.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	2.05	sandy gr	م در ۱
Tailpipe with welded		_		252.5'- 260' silt	ry sandy gravel (msc)
end cap: 253.28 → 255.28'		280		TD = 260	bgs
WHATS EROM 257.8 TO 260	<b>3</b>	_		TD=260' WL= 214.6	9/27/01
Swat? 15					
- Copies G					
		3∞ —			
All temporary casing		-			
removed from ground		-			
All depths are in feet		_			
All depths are in Feet below ground surface					
		-			
		-			
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B.16

BHI-EE-189 (12/97)

					Start Date	، ک	3-01			
WELL CONS	TRUCTION	1 SUM	MAR	Y REPORT	inish Dat		28-01			
				0540428	Trace		of			
ecification No.: 0200X-SP-	Rev. No.:			Well Name: 299-w 18-40 Temp. Well No.: C3395						
Ns: NA			- 1	Approximate Location: Sw corner of 241-4						
	prilling			Other Companies: CND						
lling Company: Resonant	Sonic Inc	ς,		Geologist(s): L. Walker		Faurot		41son		
ller: Gary Howell; mile	Gomes; Kelly	Blson		c. Martine	z DC	weekes		· Con Lagrangia (no.)		
TEMPORARY CAS	ING AND DRILL DEI	PTH		DRILLING METHO	D/HOLE	DIAMETE	R			
*Size/Grade/Lbs. Per Ft.	Interval	Shoe O.			Diameter	From	to			
034"/938",FJ	<u>O - 258'</u>	11"/		Cable Tool: X 1034 0[D	Diameter	From _ O	to _	147		
carbon steel	-			Air Rotary: X Tricone Bit	Diameter	From 14	17' to	178		
				A.R. w/Sonic:	Diameter	From	to _			
					Diameter	From	to			
					Diameter	From	to			
ndicate Welded (W) - Flush Joi	nt (FJ) Coupled (C)	& Thread	Design		Diameter		to			
				* Cable tool: 178'	→ 26	0'				
				Drilling Fluid: none for		Air f	tor not	ary f		
otal Drilled Depth: 260'	Hole Dia @ TD:	11 "		Total Amt. Of Water Added During						
/ell Straightness Test Results: 7	45sed 9/20/c	01 (20.4	(x & 5")	Static Water Level: 214.6	Date: 9	1/27/0	<b>.</b>			
		GEO	PHYSICA	L LOGGING						
Candas (huna)	Interval	Da	ite	Sondes (type)	Int	erval	Dat	e		
Sondes (type)										
Solides (type)										
Solides (type)	-									
Surides (type)										
Suriues (type)		C	OMPLET	ED WELL						
Size/Wt./Material	Depth	Thread	OMPLET Slot Size	Туре		erval	Volume	Mesh Size		
	Depth	1000	Slot		Annual Se		Volume 59 bags	Size		
Size/Wt./Material	253,28	Thread	Slot Size	Туре	Annual Se	al/Filter Pack		Size		
Size/Wt./Material	253.28 255.38	Thread	Slot Size	Type	207,8 2	al/Filter Pack	59 begs	10-2		
Size/Wt./Material  4" ID 553046 Sump	218.27 - 253.28	Thread	Slot Size	Colorado Silica Sand (50 <sup>Th</sup> ) Bentonite Pellets	207,8 2	- <u>257.8</u> - <u>207.8</u>	59 bags 5.5 buck	Size		
Size/Wt./Material  4" ID 553046 Sump	218.27 - 253.28	Thread	Slot Size	Type  Coloradosilica Sand (50 <sup>TT</sup> )  Bentonita Pellets  Granular Bentonite.	207,8 2	- <u>257.8</u> - <u>207.8</u> - <u>202.8</u> - <u>202.0</u>	59 bags 5.5 buck 152bags	Size		
Size/Wt./Material  4" ID 553046 Sump	218.27 - 253.28	Thread	Slot Size NLA 0.020	Type  Colorados: lica Sand (50 <sup>TT</sup> )  Bentonite Pellets  Granular Bentonite.  Port  CTIVITIES	207,8 2	- <u>257.8</u> - <u>207.8</u> - <u>202.8</u> - <u>202.0</u>	59 bags 5.5 buck 152bags	5ize		
Size/Wt./Material  4" ID 553046 Sump	218.27 - 253.28	Thread	Slot Size NLA 0.020	Type  Colorados:lica Sand (50 <sup>TT</sup> )  Bentonite Pellets  Granular Bentonite.  Port	207,8 2	- <u>257.8</u> - <u>207.8</u> - <u>202.8</u> - <u>202.0</u>	59 bags 5.5 buck 152bags	5ize		
Size/Wt./Material  HUTD 55304L SUMP  HUTD 55304L SCREEN	218.27 - 253.28	Thread F480	Slot Size NLA 0.020	Type  Colorados: lica Sand (50 <sup>TT</sup> )  Bentonite Pellets  Granular Bentonite.  Port  CTIVITIES	2078 202,0	- 257.8 - 257.8 - 207.8 - 202.0 - 11-6	59 bags 5.5 buck 15-2 bags 10 bags	5ize		
Size/Wt./Material  4"ID SS 304L SUMP "IO SS 304L SCREEN 4"IO SS 304L Casing	218.27 - 253.28	Thread F480	Slot Size NLA 0.020	Type  Colorado Silica Sand (50 )  Bentonite Pellets  Granular Bentonite  Port  CTIVITIES  Well Abandoned:	2078 202,0	- 257.8 - 257.8 - 207.8 - 202.0 - 11-6	59 bags 5.5 buck 15-2 bags 10 bags	5ize		
Size/Wt/Material  HUED 55 3046 SCREEN  HUED 553046 Casing  Aquifer Test:  Description:	218.27 - 253.28	Thread F480 M CARROLL Date:	Slot Size NA O 20 NA O 19	Type  Colorados: lica Sand (50 <sup>T</sup> )  Bentonite Pellets  Granular Bentonite.  Port  CTIVITIES  Well Abandoned:  Description:	2078 202,0	- 257.8 - 257.8 - 207.8 - 202.0 - 11-6	59 bags 5.5 buck 15-2 bags 10 bags	5ize		
Size/Wt./Material  4"ID SS 304L SUMP "IO SS 304L SCREEN 4"IO SS 304L Casing	218.27 - 253.28	Thread F480 M CARROLL Date:	Slot Size NA O 20 NA O 19	Type  Colorado Silica Sand (50 <sup>st</sup> )  Bentonite Pellets  Granular Bentonite.  Port  CTIVITIES  Well Abandoned:  Description:	2078 202,0	- 257.8 - 257.8 - 207.8 - 202.0 - 11-6	59 bags 5.5 buck 15-2 bags 10 bags	Size		
Size/Wt/Material  HUTD 553046 Sump  HUTD 553046 Screen  HUTD 553046 Casing  Aquifer Test: Description:	218.27' - 253.28 11.9' - 218.27'	Thread F480 M CARROLL Date:	Slot Size NA O 20 NA O 19	Type  Colorado Silica Sand (50 )  Bentonite Pellets  Granular Bentonite  Port  CTIVITIES  Well Abandoned:  Description:  RYEY DATA  Protective Casing Elevation:	2078 202,0	- 257.8 - 257.8 - 207.8 - 202.0 - 11-6	59 bags 5.5 buck 15-2 bags 10 bags	Size		
Size/Wt/Material  4" TD 55304 L SCREEN  4" TO 55304 L Cas ng  Aquifer Test: Description:	218.27' - 253.28 11.9' - 218.27'	Thread F-180 N Date:	Slot Size NA O CO NA NOTHER AC	Type  Colorado Silica Sand (50 )  Bentonite Pellets Granular Bentonite. Port  CTIVITIES  Well Abandoned: Description:  RVEY DATA  Protective Casing Elevation: Brass Cap Elevation:	2078 202,0	- 257.8 - 257.8 - 207.8 - 202.0 - 11-6	59 bags 5.5 buck 15-2 bags 10 bags	5ize 10-2 1/4		
Size/Wt./Material  HUTD 55 3046 5 cmp  HUTD 55 3046 Screen  HUTD 55 3046 Casing  Aquifer Test: Description:  Date: Washington State Plane Coordina	218 27 - 253.28 11.9 - 218.27	Thread F-180 N Date:	Slot Size NA O CO NA NOTHER AC	Type  Colorado Silica Sand (50 )  Bentonite Pellets Granular Bentonite Port  CTIVITIES  Well Abandoned: Description:  RVEY DATA  Protective Casing Elevation: Brass Cap Elevation:  S/REMARKS	Annual Se	- 257.8 - 257.8 - 207.8 - 202.0 - 11-6	59 bags 5.5 buck 15-2 bags 10 bags	Size		
Size/Wt./Material  HUTD 55 3046 5 cmp  HUTD 55 3046 Screen  HUTD 55 3046 Casing  Aquifer Test: Description:  Date: Washington State Plane Coordina	218.27 - 253.28 \$\frac{1}{2}\fra	Thread F-180 N Date:	Slot Size NA O CO NA NOTHER AC	Type  Colorado Silica Sand (50 )  Bentonite Pellets Granular Bentonite Port  CTIVITIES  Well Abandoned: Description:  RVEY DATA  Protective Casing Elevation: Brass Cap Elevation:  S/REMARKS	Annual Se	- 257.8 - 257.8 - 207.8 - 202.0 - 11-6	59 bags 5.5 buck 15-2 bags 10 bags	Size		
Size/Wt./Material  HUTD 55 3046 5 cmp  HUTD 55 3046 Screen  HUTD 55 3046 Casing  Aquifer Test: Description:  Date: Washington State Plane Coordina	218.27 - 253.28 \$\frac{1}{2}\fra	Thread F-480 M  Colored  Thread	Slot Size  NIA  O 20  NIA  O 1A  O 1	Type  Colorado Silica Sand (50 )  Bentonite Pellets Granular Bentonite Port  CTIVITIES  Well Abandoned: Description:  RVEY DATA  Protective Casing Elevation: Brass Cap Elevation:  S/REMARKS	Annual Se	- 257.8 - 257.8 - 207.8 - 202.0 - 11.6 -	59 bags 5.5 buck 15-2 bags 10 bags	Size  10-3  10-1		
Size/Wt/Material  4" ID 55304 L SUMP  "ID 55304 L SCREEN  4" ID 55304 L Cas ng  Aquifer Test:  Description:  Date:  Washington State Plane Coording	218 27 - 255.28 \$\frac{1}{218} \frac{1}{27} - 255.28 \$\frac{1}{218} \frac{1}{27} - 218.27 	Thread F480 M  Date:	Slot Size  NIA  O 20  NIA  O 1A  O 1	Type  Colorado Silica Sand (50 )  Bentonita Pellets Granular Bentonite Port  CTIVITIES  Well Abandoned: Description:  RVEY DATA  Protective Casing Elevation: Brass Cap Elevation:  S/REMARKS  A, 59 bags x 0.535 ft.	Annual Se	- 257.8 - 257.8 - 207.8 - 202.0 - 11.6 -	59 6985 5.5 buck 152 bags 10 bags Date:	Size  10-3  10-1		
Size/Wt/Material  4 ** FD 55 304 L 5 L 5 L 5 L 5 L 5 L 5 L 5 L 5 L 5 L	218.27 - 253.28 \$\frac{1}{2}\fra	Thread FARO U  Date:  CO	Slot Size  AVA  O CO  N NA  OTHER AG  COMMENT  COMMENT  COMMENT	Type  Colorado Silica Sand (50 )  Bentonite Pellets Granular Bentonite. Port  CTIVITIES  Well Abandoned: Description:  RYEY DATA  Protective Casing Elevation: Brass Cap Elevation:  S/REMARKS  A, 5 9 bags x 0.555 ft.  S/REVIEWED By: Jess Here	Annual Se	- 257.8 - 257.8 - 207.8 - 202.0 - 11.6 -	59 bags 5.5 buck 15-2 bags 10 bags Date:	Size  10-3  Val  NIA  NIA		
Size/Wt/Material  4" ID 55304 L SCREEN  4" ID 55304 L Casing  Aquifer Test:  Description:  Date:  Washington State Plane Coording  Start Card# RC  5.5 buck * 0.62 buck  Reported By: Delberge	ales:  0378/5;  c= 3 41 ft <sup>2</sup> ; b  55 C-Mart	Thread F-480 M  Co  Co  Co  Co  Co  Co  Co  Co  Co	Slot Size  NIA  O 20  NIA  O 1A  O 1	Type  Colorado Silica Sand (50 )  Bentanita Pellets Granular Bentanite. Port  CTIVITIES  Well Abandoned: Description:  RYEY DATA  Protective Casing Elevation: Brass Cap Elevation:  S/REMARKS  A, 59 bags x 0.535 ft.  152 bags t 071 bag  Reviewed By: Jess Hear	Annual Se	- 257.8 - 257.8 - 207.8 - 202.0 - 11.6 -	59 6985 5.5 buck 152 bags 10 bags Date:	Size  10-3  Va II  NIA  NIA		

0540340 WELL CONSTRUCTION AND COMPLETION SUMMARY Drilling Method: WELL NUMBER: TEMPORARY Sample Method: Cable Tool Grab/Split Spoon 299-W19-44 Not Allowed C3393 WELL NO: Drilling Fluid Used: Additives Used: Coordinates: N Not documented Driller's WA State Coordinates: E Not documented K. Olson Name: Lic Nr. Data not available Drilling Company Location: Start Card #: Woodland, Ca. Company: RSI R Date Date Elevation Started: 05Sep01 Completed: 13Sep01 Ground Surface: Elevation of Reference Point: 230.9 ft 05Sep01 Depth to Water: (Ground surface) Height of Reference Point Above Ground Surface: GENERALIZED STRATIGRAPHY Geologist's Log Depth of Surface Seal: 10.3 ft Type of Surface Seal: 4x4 Concrete Pad 868886 Fill Casing Screen 0 - 2.5 ft : Sandy Gravel (Sg) 2.5 - 7 ft : gravelly Sand (gS) 7 - 11 ft : sandy Gravel (sG) 11 - 19 ft : gravelly Sand (gS) 19 - 31 ft : silty sandy Gravel (MSG) 31 - 38.5 ft : sandy Gravel (sG) 0 - 10.3 ft: 0 - 229.9 ft: 12-inch hole 4 inch Cement Surface 304L SS sch 5 Seal csg 31 - 38.5 ft : sandy Gravel (sG)
38.5 - 44 ft : gravelly Sand (gS)
44 - 45.5 ft : sandy Gravel (sG)
45.5 - 50 ft : cemented sitly Gravel
50 - 52 ft : gravelly Sand (gS)
52 - 58 ft : Sand (S)
58 - 59.2 ft : Sitt (m)
59.2 - 67 ft : Sand (S)
67 - 67.5 ft : Sandy Sitt (sm)
67.5 - 68 ft : Sitt (m)
68 - 69 ft : Sand (S)
69 - 70.5 ft : Sitt (m)
70.5 - 81.5 ft : Sand (S) 10.3 - 61 ft : 12-inch hole Bentonite crumbles 69 - 70.5 rt : Sirt (m) 70.5 - 81.5 ft : Sand (S) 81.5 - 88 ft : sandy Silt (sm) 88 - 97.5 ft : silty Sand (mS) 97.5 - 103 ft : Sand (S) 103 - 131.8 ft : silty Sand (mS) 131.8 - 144.5 ft : Silt (m) 144.5 - 150.5 ft : Caliche 61 - 231.3 ft: 150.5 - 155 ft : slightly silty gravelly sand 155 - 233 ft : silty sandy Gravel 9-inch hole Bentonite crumbles 213.3 - 218.9 ft : 9-inch hole 1/4" Bentonite 229.9 - 264.9 ft : 233 - 234.45 ft : cemented silty sandy gravel 234.5 - 267.5 ft : silty sandy Gravel (msG) Pellets 4 inch 304L SS Wire 218.9 - 266.9 ft: 9-inch hole Wrap .020 slot 10/20 Silica Sand scrn 267.5 - 269.5 ft : cemented silty sandy gravel 269.5 - 272 ft : silty sandy Gravel (msG) 266.9 - 272 ft : 264.9 - 266.9 ft : 9-inch hole 4 inch 4 inch 10/20 Silica Sand 304L SS Sump 272 ft : Borehole drilled depth Project File: WELLS.GPJ 0 - 61 ft : 12-in. Cable Tool 11-3/4" CS Temp csg 61 - 272 ft : 9-in. Cable Tool 8-5/8" CS Temp csq Drawing By: JEA Hanford Wells Reference: Revision: Revision Date: 18Oct01

WELLS

Print Date:

24Oct01

SUMMARY OF CONSTRUCTION DATA AND FIELD OBSERVATIONS RESOURCE PROTECTION WELL - 299-W19-44

WELL DESIGNATION : 299-W19-4

CERCLA UNIT :

RCRA FACILITY

DEPTH DRILLED (GS) : 272.0 ft

MEASURED DEPTH (GS) : 266.9 13Sep01

AVAILABLE LOGS : Geologist & Geophysical

DATE EVALUATED : Data not available

EVAL RECOMMENDATION : Data not available

LISTED USE : RCRA Monitoring

CURRENT USER : RCRA & Operations

PUMP TYPE : Not Documented

MAINTENANCE : Data not available

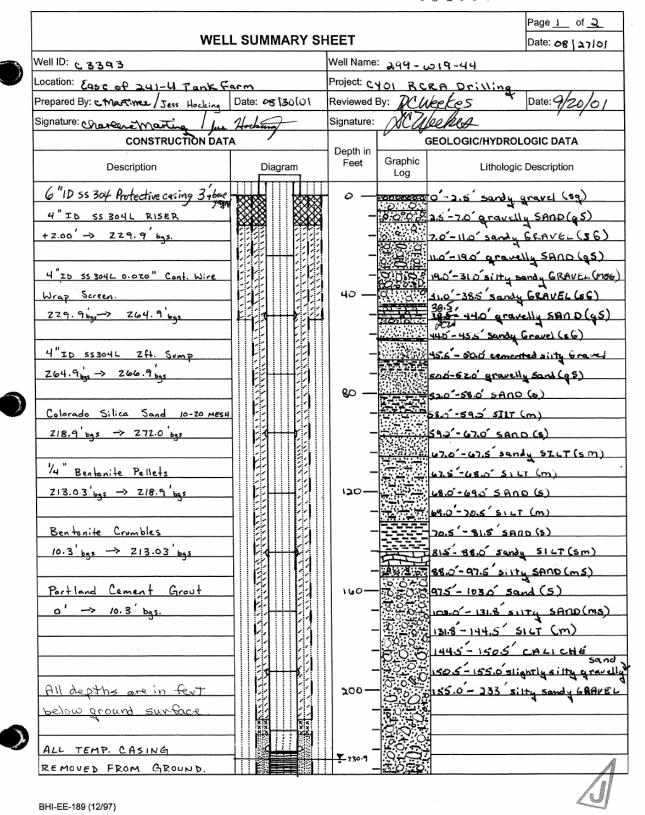
COMMENTS : Cable Tool 11-3/4" Temp CS csg to 61 ft, 8-5/8" temp Cs csg to 272 ft

TV SCAN COMMENTS

Drawing By: JEA
Reference: Hanford Wells
Revision: 0
Revision Date: 18Oct01
Print Date: 24Oct01



### 0540337

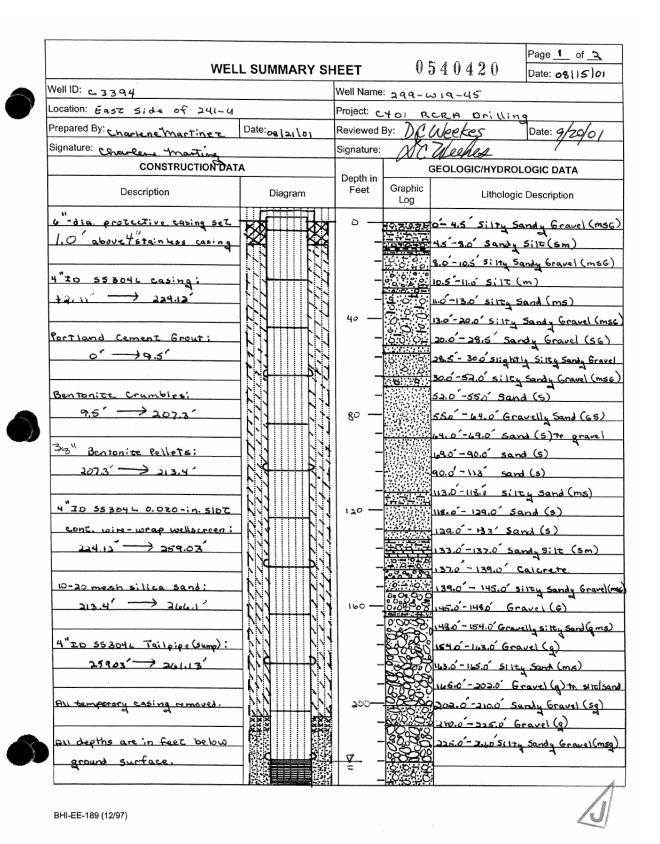


	<b>WELL SUMMARY S</b>	HEET			Date: סורב ופס	
Well ID: رععوع		Well Name	Well Name: 299-w19-44			
		Project: 0				
Location: East of 241-U Tank Farm			Reviewed By: Deweckes Date: 9/20/6			
Prepared By: C. Martinez	Date: 08(30101			weekes .	Date: 9/20/6	
Signature: Charles marting	· · · · · · · · · · · · · · · · · · ·	Signature:	T // C	Weeker		
construction	N DATA	Depth in		GEOLOGIC/HYDRO	LOGIC DATA	
Description	Diagram	Feet	Graphic Log	Lithologi	c Description	
		دېد	0 1 6 1 C	233.0'- 234.5'	emented silt	
		_	2000 2000	3345 - 2675	silty sandy qu	
		_	0 0 0 0 - 0		4 d1	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	780-	h=n=.02	2675 - 2695	cemented 5:1	
		_	-		gravel	
		-	-	269.5 ^- 272	silty sandy gr	
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		320 -	-			
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ALL TEMP. CASING			_			
REMOVED FROM GROUND.						
	<u>. £                                     </u>					
All depths from ground	surface !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	<u> </u>				

-				0540333 s	tart Date:	9-5-	01	1
WELL CONS	TRUCTION	SUM	MAR	Y REPORT F	inish Date	: 9-13	-01	
		37815		MATCARD	Pa	age _l_o	f_1_	
ecification No.: 0200X-5P-	Rev. No.:	<u> </u>		Well Name: 299-619-44	emp. Wel	INo.: c	3393	
Ns: NA				Approximate Location: East Si	4 of	241-		
Dject: C+OI RCRA D	oci II in a			Other Companies: C + x				
Illing Company: Resonant				a Machinez	, Les h	Jalker, M	ke Fauro	le,
iller: Kelly Olson #12		•		Geologist(s): Charlese Trice, Jes	s Hockin	9, 3000	WI ME IT	
TEMPORARY CASI	Million TOTAL CAN DESCRIPTION OF STREET	PTH		DRILLING METHO	D/HOLE	DIAMETER	2	
*Size/Grade/Lbs. Per Ft.	Interval	Shoe O.I	D./I.D.	Auger:	Diameter	From	to	37-23-04-03-310
hreaded Carbon Steel 12"	0 - 61.0		0 1/4"		Diameter	From 12"	-⊘ to <sup>6</sup>	8"
hreaded Carbon Steel 8"	+2.00 - 272.0		8 1/2 "		Diameter	From	5 to C	<u></u>
readed Carbon Steel 8		5 / 6	-		Diameter		to	
					Diameter		to	
					Diameter			272
ndicate Welded (W) - Flush Joir	nt (El) Coupled (C)	8 Thread I	Design		Diameter		to	
idicate Weided (W) - Flusii Son	n (F3) Coupled (C)	a Illieau L	Design		Diameter			
	·			Drilling Fluid: WATER				
otal Drilled Depth: 272.0	Hole Dia @ TD: 1	2"		Total Amt. Of Water Added During	Drilling:	UNKNOW	N	
Vell Straightness Test Results:	PASSED usin		الح8ر)	Citatio Traisi Ector. Et 1 995	Date: 🚅	de de	9/5/	101
ND Straightness tool. C	99105101	I		AL LOGGING				Hannah
The state of the s		Dat	te	Sondes (type)	Inte	rval	Dat	.е
Sondes (type)	Interval	- 7	,					
The state of the s	0'.245'	0/1	61					
Sondes (type)	0' . 245'	0/1	7					
Sondes (type)	0'.245'	0/1	61		STATE OF STATE			
Sondes (type) Spectral Gamma	0' . 245'	9/4/ 9/5/ 9/5/	61 101 101	red Well				
Sondes (type) Spectral Gamma	0' . 245'	9/4/ 9/5/ 9/5/	61 101 101	Type		erval al/Filter Pack	Volume	Mesh Size
Sondes (type)  Spectral Gamma  Dectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID \$\$ 3046 Riser	0' - 245' 244' - 270' 60' - 230.86'	9/4/6 9/5/ 9/5/ C Thread	6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/ 6/	Colorado Solica SAND	Annual Se		38.55% 315.544	
Sondes (type) Spectral Gamma Spectral Gamma Vertron Moisture Size/Wt/Material 4"ID \$\$ 304L Riser	0' - 245' 244' - 270' 60' - 230.86'	9/4/ 9/5/ 9/5/ C Thread	O/ O/ O/ OMPLE1 Slot Size	Colorado SO# bags Colorado Silica SAND BENTONITE PELLETS	Annual Se	al/Filter Pack		Size
Sondes (type)  Spectral Gamma  Pectral Gamma  Veutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  0.020" Cent.  4" SS 304L Wire Wrap Screen	0' - 245' 244' - 270' 60' - 230.86' Depth	9/4/ 9/5/ 9/5/ C Thread F450 nthe	O/ O/ O/ OMPLET Slot Size	Colorado STE Dags Colorado Silica SAND BENTONITE PELLETS 37# bags	272.0 218.9	al/Filter Pack - <u>218-9</u>	38 5000 116.600 1 Dwck 7.1200 131.75 b 267.45	Size 10-20
Sondes (type) Spectral Gamma Spectral Gamma Vertron Moisture Size/Wt/Material 4"ID \$\$ 304L Riser	0' - 245' 244' - 270' 60' - 230.86'  Depth +2.00 - 229.9	9/4/ 9/5/ 9/5/ C Thread	O/ O/ O/ OMPLE1 Slot Size	Colorado SO# bags Colorado Silica SAND SO# BUCKET BENTONITE PELLETS BENTONITE CRUMBUS BENTONITE CRUMBUS BENTONITE CRUMBUS	272.0 218.9	al/Filter Pack - 218-9 - 213.03	38 5000 116.600 1 Dwck 7.1200 131.75 b 267.45	Size 10-20
Sondes (type)  Spectral Gamma  Pectral Gamma  Veutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  0.020" Cent.  4" SS 304L Wire Wrap Screen	0' - 245' 244' - 270' 60' - 230.86'  Depth +2.00 - 229.9	9/4/9/5/ 9/5/ 9/5/ CThread F.450 CTHE F.430 F.430	O/ O/ O/ OMPLE1 Slot Size	Colorado SO# bags Colorado Silica SAND BENTONITE PELLETS BENTONITE CRUMBLES	272.0 218.9 213.03	al/Filter Pack - 218-9 - 213.03 - 10-3	38 5966 116.666 4 Dwck 7.176	Size 10-20
Sondes (type)  Dectral Gamma  Dectral Gamma  Veutron Moisture  Size/Wt./Material  4"ID SS 304L Riser  0.020" Cont.  4" SS 304L Wire Wrap Screen	0' - 245' 244' - 270' 60' - 230.86'  Depth +2.00 - 229.9	9/4/ 9/5/ 9/5/ Thread F450 F430 F430	COMPLET Slot Size	Colorado SO# bags Colorado Silica SAND SO# BUCKET BENTONITE PELLETS BENTONITE CRUMBUS BENTONITE CRUMBUS BENTONITE CRUMBUS	272.0 218.9 213.03	al/Filter Pack - 218-9 - 213.03 - 10-3	38 599 116.660 1 Dwcl 7.12(5) 131.75 b 267.45	Size 10-20
Sondes (type)  Spectral Gamma  Spectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  4" SS 304L White Wrap Screen  4" SS 304L Sump	0' - 245' 244' - 270' 60' - 230.86'  Depth +2.00 - 229.9 229.9 - 264.9	9/4/ 9/5/ 9/5/ C Thread F 480 F 480 THE	O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/	Type  Colorado SOT bags  C Soft bags  BENTONITE PELLETS  BENTONITE CRUMBLES  PORTLAND CEMENT  ACTIVITIES	272.0 218.9 213.03	al/Filter Pack - 218-9 - 213.03 - 10-3	38 599 116.660 1 Dwcl 7.12(5) 131.75 b 267.45	Size 10-20
Sondes (type)  Spectral Gamma  Dectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  4" SS 304L Sump  Aquifer Test: (Nell Deve	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 244.9 264.9 - 266.9	9/4/ 9/5/ 9/5/ 9/5/ C Thread F430 F430 F430	O/O/O/OMPLET Slot Size	Type Colorado SO# bags C Silica SAND FO # bags BENTONITE PELLETS SO# bags BENTONITE CRUMBLES PORTLAND CEMENT  Well Abandoned:	272.0 218.9 213.03 10.3	- 218.9 - 213.03 - 10.3 - 0	38 50 88 116 68 12 5 68 13 1.75 68 131.75 19 131.75 19 131.7	Size 10-20
Sondes (type)  Spectral Gamma  Dectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  4" SS 304L Sump  Aquifer Test: (Nell Devel  Description: Used Summer	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  Opmen sible pump to	9/4/ 9/5/ 9/5/ 9/5/ C Thread F450 F430 F430 F430 P430 P430 P430 P430 P430 P430 P430 P	O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/	Type  Colorado SOT bags  C Soft bags  BENTONITE PELLETS  BENTONITE CRUMBLES  PORTLAND CEMENT  ACTIVITIES	272.0 218.9 213.03 10.3	- 218.9 - 213.03 - 10.3 - 0	38 50 88 116 68 12 5 68 13 1.75 68 131.75 19 131.75 19 131.7	Size 10-20
Sondes (type)  Spectral Gamma  Spectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  4" SS 304L Sump  Aquifer Test: (Nell Devel  Description: Used Submer  3 9pm with 14.392 dra	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 244.9 264.9 - 266.9	9/4/ 9/5/ 9/5/ 9/5/ C Thread F450 F430 F430 F430 P430 P430 P430 P430 P430 P430 P430 P	O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/	Type Colorado SO# bags C Silica SAND FO # bags BENTONITE PELLETS SO# bags BENTONITE CRUMBLES PORTLAND CEMENT  Well Abandoned:	272.0 218.9 213.03 10.3	- 218.9 - 213.03 - 10.3 - 0	38 50 88 116 68 12 5 68 13 1.75 68 131.75 19 131.75 19 131.7	Size 10-20
Sondes (type)  Spectral Gamma  Dectral Gamma  Neutron Moisture  Size/Wt./Material  4"ID SS 304L Riser  4" SS 304L Sump  Aquifer Test: (Nell Devel  Description: Used Summer	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  Opmen sible pump to	9/4/ 9/5/ 9/5/ 9/5/ Thread F450 F430 F430 F430 F430 F430 F430 F430 F43	O/O/O/O/O/OMPLET Slot Size O-O20" - OTHER A //4/O/ t teke	Type  Colorado Silica SAND  SO # BUCKET  BENTONITE PELLETS  SO # BAGS  BENTONITE CRUMBLES  PORTLAND CEMENT  CIVITIES  Well Abandoned:  Description:	272.0 218.9 213.03 10.3	- 218.9 - 213.03 - 10.3 - 0	38 50 88 116 68 12 5 68 13 1.75 68 131.75 19 131.75 19 131.7	Size 10-20
Sondes (type)  Spectral Gamma  Dectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  4" SS 304L Wire Wrap Screen  4" SS 304L Sump  Aquifer Test: (Nell Devel  Description: Used Summer  3 gpm with 14.392 dra  set at 263.0 bgs.	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  Opmen sible pump to	9/4/ 9/5/ 9/5/ 9/5/ Thread F450 F430 F430 F430 F430 F430 F430 F430 F43	O/O/O/O/O/OMPLET Slot Size O-O20" - OTHER A //4/O/	Type  Colorado Silica SAND  Colorado Silica SAND  BENTONITE PELLETS  BENTONITE CRUMBUS  PORTLAND CEMENT  CTIVITIES  Well Abandoned:  Description:	272.0 218.9 213.03 10.3	- 218.9 - 213.03 - 10.3 - 0	38 50 88 116 68 12 5 68 13 1.75 68 131.75 19 131.75 19 131.7	Size 10-20
Sondes (type)  Spectral Gamma  Dectral Gamma  Neutron Moisture  Size/Wt./Material  4"ID SS 304L Riser  4" SS 304L Wire Wrap Screen  4" SS 304L Sump  Aquifer Test: (Nell Devel Description: Used Summer  3 gpm with 14.392 dra  set at 263.0 bgs.  Date:	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  copment sible pump to	9/4/ 9/5/ 9/5/ 9/5/ Thread F450 F430 F430 F430 F430 F430 F430 F430 F43	O/O/O/O/O/OMPLET Slot Size O-O20" - OTHER A //4/O/	Type  Colorado  Soft bags  Colorado  Soft bags  BENTONITE PELLETS  BENTONITE CRUMBLES  PORTLAND CEMENT  CTIVITIES  Well Abandoned:  Description:  RVEY DATA  Protective Casing Elevation:	272.0 218.9 213.03 10.3	- 218.9 - 213.03 - 10.3 - 0	38 50 88 116 68 12 5 68 13 1.75 68 131.75 19 131.75 19 131.7	Size 10-20
Sondes (type)  Spectral Gamma  Spectral Gamma  Neutron Moisture  Size/Wt./Material  4"ID SS 304L Riser  4" SS 304L Wire Wrap Sween  4" SS 304L Sump  Aquifer Test: (Nell Devel  Description: Used Summer  3 gpm with 14.392 dra  Set at 263.0 bgs.	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  copment sible pump to	9/4/ 9/5/ 9/5/ 9/5/ C Thread F 480 MHP C Date: 9/ extrac	O/O/O/COMPLET Slot Size O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-	Type Colorado Silica SAND Colorado Silica SAND BENTONITE PELLETS BENTONITE CRUMBLES PORTLAND CEMENT  Well Abandoned: Description:  RVEY DATA  Protective Casing Elevation: Brass Cap Elevation:	272.0 218.9 213.03 10.3	- 218.9 - 213.03 - 10.3 - 0	38 50 88 116 68 12 5 68 13 1.75 68 131.75 19 131.75 19 131.7	Size 10-20
Sondes (type)  Spectral Gamma  Dectral Gamma  Neutron Moisture  Size/Wt./Material  4"ID SS 304L Riser  4" SS 304L Wire Wrap Screen  4" SS 304L Sump  Aquifer Test: (Nell Devel Description: Used Summer  3 gpm with 14.392 dra  set at 263.0 bgs.  Date:	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  copment sible pump to	9/4/ 9/5/ 9/5/ 9/5/ C Thread F430 F430 F430 F430 F430 F430 F430 F430	O/O/O/OMPLET SIOT SIOT SIOT OOTHER A OTHER A O	Type  Colorado  Silica SAND  SO # bags  BENTONITE PELLETS  DENTONITE CRUMBLES  PORTLAND CEMENT  CTIVITIES  Well Abandoned:  Description:  RVEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  TS/REMARKS	272.0 218.9 213.03 10.3	- 218.9 - 213.03 - 10.3 - 0	38 50 88 116 68 12 5 68 13 1.75 68 131.75 19 131.75 19 131.7	Size 10-20   /4 "   295   -
Sondes (type)  Spectral Gamma  Dectral Gamma  Neutron Moisture  Size/Wt./Material  4"ID SS 304L Riser  4" SS 304L Wire Wrap Screen  4" SS 304L Sump  Aquifer Test: (Nell Devel Description: Used Summer  3 gpm with 14.392 dra  set at 263.0 bgs.  Date:	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  copment sible pump to	9/4/ 9/5/ 9/5/ 9/5/ C Thread F430 F430 F430 F430 F430 F430 F430 F430	O/O/O/OMPLET SIOT SIOT SIOT OOTHER A OTHER A O	Type  Colorado  Soft bags  Colorado  Soft bags  BENTONITE PELLETS  BENTONITE CRUMBLES  PORTLAND CEMENT  CTIVITIES  Well Abandoned:  Description:  RVEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  TS/REMARKS	272.0 218.9 213.03 10.3	aVFilter Pack - 218.9 - 213.03 - 10.3 - 0 -	38 19 36 116 16 16 16 16 16 16 16 16 16 16 16 16	Size
Sondes (type)  Spectral Gamma  Spectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  4" SS 304L Riser  4" SS 304L Sump  Aquifer Test: (Nell Devel  Description: Used summer  3 gpm with 14.392 dra  Set at 263.0 bgs.  Date:  Washington State Plane Coordin	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 244.9 244.9 - 266.9  Copment sible pump to audown with p	9/4/ 9/5/ 9/5/ 9/5/ C Thread F430 F430 F430 F430 F430 F430 F430 F430	O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/	Type  Colorado  Soft bags  Colorado  Soft bags  BENTONITE PELLETS  BENTONITE CRUMBLES  PORTLAND CEMENT  CTIVITIES  Well Abandoned:  Description:  RVEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  TS/REMARKS	Annual Sec 272.0  Z18.9  Z13.03  10.3  Yes:	aVFilter Pack - 218.9 - 213.03 - 10.3 - 0 -	38 19 36 116 - 6 66 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Size
Sondes (type)  Spectral Gamma  Spectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  4" SS 304L Wire Wrap Screen  4" SS 304L Sump  Aquifer Test: (Well Devel Description: Used Summer  3 gam with 14.392 dra  Set at 263.0 bgs.  Date:  Washington State Plane Coordin  Vol. calcs: Dilea sand  = 2.43 fz bentonite	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  Copment sible pump to awdown with p	9/4/ 9/5/ 9/5/ 9/5/ C Thread F430 F430 F430 F430 F430 F430 F430 F430	O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/O/	Type  Colorado  Silica SAND  BENTONITE PELLETS  BENTONITE CRUMBLES  PORTLAND CEMENT  CTIVITIES  Well Abandoned:  Description:  RVEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  TS/REMARKS  = 30.33 423; bentonite (2.5)	Annual Sec 272.0  Z18.9  Z13.03  10.3  Yes:	aVFilter Pack - 218.9 - 213.03 - 10.3 - 0 -	38 19 36 116 16 16 16 16 16 16 16 16 16 16 16 16	Size (Sea) (10-20) (10
Sondes (type)  Spectral Gamma  Spectral Gamma  Neutron Moisture  Size/Wt/Material  4"ID SS 304L Riser  4" SS 304L Where Whene Scheen  4" SS 304L Sump  Aquifer Test: (Well Devel Description: Used Summer  3 gam with 14.392 dra  Set at 263.0 bgs.  Date:  Washington State Plane Coordin  Vol. calcs: >11ca sand  = 2.43 ft bentonite	0'-245' 244'-270' 60'-230.86'  Depth +2.00 - 229.9 229.9 - 264.9 264.9 - 266.9  Copment sible pump to awdown with p	9/4/ 9/5/ 9/5/ 9/5/ C Thread F430 F430 F430 F430 F430 F430 F430 F430	O/O/O/COMPLET Slot Size O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-O-	Type  Colorado  Silica SAND  BENTONITE PELLETS  BENTONITE CRUMBLES  PORTLAND CEMENT  CTIVITIES  Well Abandoned:  Description:  RVEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  TS/REMARKS  = 30.33 423; bentonite (2.5)	Annual Sec   272.0	aVFilter Pack - 218.9 - 213.03 - 10.3 - 0 -	38 19 36 116 16 16 16 16 16 16 16 16 16 16 16 16	Size

B.22

SUMMARY OF CONSTRUCTION DATA AND FIELD OBSERVATIONS RESOURCE PROTECTION WELL - 299-W19-45 WELL DESIGNATION : 299-W19-45 CERCLA UNIT RCRA FACILITY DEPTH DRILLED (GS) : 266.1 ft MEASURED DEPTH (GS) : 261.13 24Aug01 AVAILABLE LOGS : Geologist & Geophysical DATE EVALUATED : Data not available EVAL RECOMMENDATION : Data not available LISTED USE : RCRA Monitoring CURRENT USER : RCRA & Operations PUMP TYPE : Not Documented MAINTENANCE : Data not available COMMENTS : Cable Tool 10-3/4" CS Temp csg to 30 ft advance 10-3/4" csg to 266.1 ft w/ Air Rotary TV SCAN COMMENTS Drawing By: JEA
Reference: Hanford M
Revision: 0
Revision Date: 18Oct01
Print Date: 08Nov01 JEA Hanford Wells



					Page 2 of 2
W	ELL SUMMARY S	HEET			Date: 0%\15\0
Well ID: ლკვო4		Well Name	÷ 299-	w19-45	
Location: East of 241-4 Tank	Farm	Project: c		CRA Drilling	
Prepared By: charlene Martinez	Date: Date:	Reviewed		ukekes	Date: 9/20/6
Signature: Charles Martines		Signature:	180	Talochea	
CONSTRUCTION D	Ата		1	GEOLOGIC/HYDR	OLOGIC DATA
		Depth in Feet	Graphic		
Description	Diagram	1 000	Log	Litholog	gic Description
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All temporary casing removed		_	_		
The state of the s		_			
All depths are in feet below	)				
ground surface		-			
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			37819	,	inish Date: 9/33/		
pecification No.: 0200 X- SP-	Pour No.				Page 1 c		
	Rev. No.: O				Femp. Well No.:		
				Approximate Location: East	side of 2	41-4	
roject: CYOI RCRA	Drilling			Other Companies: CHI Geologist(s): C. Martinez,	Caries 6 1	Thamas	
rilling Company: Resonant	Sonic Inc			0.c. weekes	0 11100, 01	· · · · · · · · · · · · · · · · · · ·	
riller: mike Gomez				-		2	E-SHIPE
	ING AND DRILL DE	and the stere		Control of the Contro	DD/HOLE DIAMETER	SECTION SECTION	
*Size/Grade/Lbs. Per Ft.	Interval	Shoe O		Auger:	Diameter From	to	
Carbon Steel (FJ)	D 210/01	103/4		Cable Tool: X 1374 0(D	Diameter From		
1034" 110"				Air Rotary: X Tricone Bit	Diameter From 30		• فاما
				A.R. w/Sonic:	Diameter From	to	
					Diameter From	to	
Indicate Welded (W) - Flush Joi	ll				Diameter From Diameter From	to	
	<b>T</b>			Drilling Fluid: A; r			
Total Drilled Depth: அடுட்டா	Hole Dia @ TD:	V ''		Total Amt. Of Water Added During	Drilling: ヘゾ		
Well Straightness Test Results: D	ione w/ 20.4,	8 2 00	tool	Static Water Level: 224.4	Date: 8/24/	01	
Passed 08/15/01		GEC	PHYSICA	AL LOGGING			
Sondes (type)	Interval	Da	ite	Sondes (type)	Interval	Dat	te
Spectral Gamma	0'-115'	8/15/	01		***************************************		
Spectral Gamma	114'-266'	8/16	101		*		
Neutron moisture	0'-225'	8/16	101				
	<u>, are educie</u>	Salva C	OMPLET	ED WELL		A. 55.8	<b>6</b> %c
Size/Wt./Material	Depth	Thread	Siot Size	Туре	Interval Annual Seal/Filter Pack	Volume	Mes Size
	<del> </del>	<del> </del>					10.3
4 70 55 Sump (3044)	259.03 - 261.13	F480	U/B	Colorado silira Sand (50 bag	213.4- 206.1	2832	-
4"ID SS SUMP (3044)	224.12 - 259.03	F480	0.020	Bentonite Pellets (50#)	207.3 - 213.4	5 buck	3,8
4 70 55 Sump (3044)	1 , ,		13	Bentonite Pellets (50#) Bentonite Crumbles (50#)	<u>207.3' - 213.4'</u> <u>9.5' - 207.3'</u>	5 buck 146 bogs	3/8/1
4"ID SS SUMP (3044)	224.12 - 259.03	(1	0.020	Bentonite Pellets (50#)	207.3 - 213.4	5 buck	3/8 11/14
4"20 55 Sump (3044) 4"20 55 3044 Screen	224.12 - 259.03	U	0.020 <sup>1</sup>	Bentonite Pellits (50#) Bentonite Crumbles (50#) Portland Cement (94#)	<u>207.3' - 213.4'</u> <u>9.5' - 207.3'</u>	5 buck 146 bogs	3/8/1
4"ID SS SUMP (3044) 4"ID SS 3044 SCREEN H" ID SS 3044 Casing	- - - - - - - - - - - - - - - - - - -	U U	O.O20 <sup>®</sup> A \H  OTHER A	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland Cement (94#)  CTIVITIES	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5'	5 buck 146 bogs 4 bags	3/8/1
4"ID SS SUMP (3044) 4"ID SS 3044 SCREEN H" ID SS 3044 Casing Adulter Test: Well Devel	- 259.05 + 3.11 - 259.05 - 24.12 - 294.12	U U	0.020 \( \lambda \) \( \lambda	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland Cement (94#)  CTIVITIES  Well Abandoned:	<u>207.3' - 213.4'</u> <u>9.5' - 207.3'</u>	5 buck 146 bogs	3/8/1
4" 20 55 Sump (3044) 4" ID 55 3044 Screen 4" IO 55 3044 Casing Aquifer Test: Well Devel Description: Rimped bottom sec	224.12 - 259.05 +2.11 - 224.12 - - - - - - - - - - - - - - - - - - -	Date: 8	0.020 A 19 OTHER A 2/24/01	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland cement (94#)  CTIVITIES  Well Abandoned:  Description:	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5'	5 buck 146 bogs 4 bags	3/8/1
4" 20 55 Sump (3044) 4" ID 55 3044 Screen 4" ID 55 3044 Casing Aquifer Test: Well Devel Description: Pimped bottom second	224.15 - 259.05 + 2.11 - 204.12 -	Date: 8	0.020 A 19 OTHER A 124/01 Si6/e 9pm with	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Pertland cement (94#)  CTIVITIES  Well Abandoned:  Description:	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5'	5 buck 146 bogs 4 bags	3/8/1
4" 20 55 Sump (3044) 4" ID 55 3044 Screen 4" IO 55 3044 Casing Aquifer Test: Well Devel Description: Rimped bottom sec	224.15 - 259.05 + 2.11 - 204.12 -	Date: 8	0.020 A 19 OTHER A 124/01 Si6/e 9pm with	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Pertland cement (94#)  CTIVITIES  Well Abandoned:  Description:	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5'	5 buck 146 bogs 4 bags	3/8/1
4"ID SS SUMP (3044) 4"ID SS 3044 SCREEN 4"ID SS 3044 Casing Aquifer Test: Well Devel Description: Pimped bettom sec pump intoke set at 257.5 17.33 Samudoun, Rup raised+	224.15 - 259.05 + 2.11 - 204.12 -	Date: 8  Submer  4+30  vn +109	O.O20 A VA	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Pertland cement (94#)  CTIVITIES  Well Abandoned:  Description:	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5'	5 buck 146 bogs 4 bags	3/8/1
4" 20 55 Sump (3044) 4" ID 55 3044 Screen 4" ID 55 3044 Casing Aquifer Test: Well Devel Description: Pimped bottom second	224.15 - 259.05 + 2.11 - 204.12 -	Date: 8  Submer  4+30  vn +109	O.O20 A VA	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland Cement (94#)  CTIVITIES  Well Abandoned:  Description:	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5'	5 buck 146 bogs 4 bags	3/8/1
4 2D 55 Sump (3044) 4 2D 55 Sump (3044) 4 2D 55 3044 Screen 4 2D 55 3044 Casing Aquifer Test: Well Devel Description: Pimped bottom 20 pump intoke set at 257.5 17.33 drawbown. Ping raised+	224.15 - 259.05 + 2.11 - 224.12 - 224.12 - 224.12 - 224.12 - 224.15 - 224.12 - 224.15 - 234.12 - 234.15 - 234.12 - 234.	Date: 8  Submer  4+30  vn +109	O.O20 A VA	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland Cement (94#)  CTIVITIES  Well Abandoned:  Description:  RYPY DATA	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5'	5 buck 146 bogs 4 bags	3/8/1
4"ID SS SUMP (3044) 4"ID SS 3044 SCREEN H" ID SS 3044 Casing Aquifer Test: Well Devel Description: Pimped bottom sec pump intoke set at 257.5 17.33 Strandown. Rung raised+ Date:	224.15 - 259.05 + 2.11 - 224.12 - 224.12 - 224.12 - 224.12 - 224.15 - 224.12 - 224.15 - 234.12 - 234.15 - 234.12 - 234.	Date: 8 submer 4 30 un st log	O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland Cement (94#)  CTIVITIES  Well Abandoned:  Description:  RYEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  S/REMARKS	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5' 	S buck I'de bog 4 bags Date:	3/8/1
4"ID SS SUMP (3044) 4"ID SS 3044 SCREEN H" ID SS 3044 Casing Aquifer Test: Well Devel Description: Pimped bottom sec pump intoke set at 257.5 17.33 Strandown. Rung raised+ Date:	224.15 - 259.05 + 2.11 - 224.12 - 224.12 - 224.12 - 224.12 - 224.15 - 224.12 - 224.15 - 234.12 - 234.15 - 234.12 - 234.	Date: 8 submer 4 30 un st log	O.O.20 A IN OTHER A OT	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland Cement (94#)  CTIVITIES  Well Abandoned:  Description:  RYEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  S/REMARKS	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5' 	5 buck 146 bogs 4 bags Date:	3, g 1 n l n l n l n l n l n l n l n l n l n
4"ID SS SUMP (3044) 4"ID SS 3044 SCREEN 4" ID SS 3044 Casing  Aquifer Test: Well Devel  Description: Pimped bottom sec  Dump intoke set at 257.5  17.33 Strandown. Rung raised +  Date:  Washington State Plane Coordin	234.15 - 259.05  + 2.11 - 204.12  -	Date: 8 Submer 4 30 on 11 log	O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland Lement (94#)  CTIVITIES  Well Abandoned:  Description:  RVEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  SIREMARKS  Et 3 bent pellets, 5 buck	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5' 	S buck I'de bog 4 bags Date:	3, g 1 n l n l n l n l n l n l n l n l n l n
4"ID SS SUMP (3044) 4"ID SS SUMP (3044) 4"ID SS 3044 SCREEN 4"ID SS 3044 Casing  Aquifer Test: Well Devel Description: Pumped bottom sec  DUMP intokeset at 257.5 17.33 Grandown. Rung raised +  Date: Washington State Plane Coordin  Vol. Calcs: Silica sand bent crumbles, 1464	234.15 - 259.05  + 2.11 - 204.12  -	Date: 8 Submer 4 30 on 11 log	O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland Lement (94#)  CTIVITIES  Well Abandoned:  Description:  RVEY DATA  Protective Casing Elevation:  Brass Cap Elevation:  SIREMARKS  Et 3 bent pellets, 5 buck	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5' 	5 buck 146 bogs 4 bags Date:	3/8/10/10/10/10/10/10/10/10/10/10/10/10/10/
ATED SS SUMP (3044)  HTD SS 3044 SCREEN  HTD SS 3044 SCREEN  AQuifer Test: Well Devel  Description: Pimped bottom sec  Dump interest of 257.5  17.33 Immobin. Pimped to the sec  Date:  Washington State Plane Coordin  Vol. Calco: Silica sand	234.15 - 259.05  + 2.11 - 204.12  -	Date: 8  Submer  At 30  V  C  C  Story  bag=	O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.	Bentonite Pellits (50#)  Bentonite Crumbles (50#)  Portland cement (94#)  CTIVITIES  Well Abandoned:  Description:  A  Protective Casing Elevation:  Brass Cap Elevation:  STREMARKS  52   Dertland cement    Reviewed By: Willow	207.3' - 213.4' 9.5' - 207.3' 0' - 9.5' 	5 buck 146 bogs 4 bags Date:	3/8/10/10/10/10/10/10/10/10/10/10/10/10/10/

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