

Attachment C

Boring Logs

(16 pages)



Monitoring Well/ Piezometer Name	Date Drilled/ Completed	Total Depth Well (ft btoc)	Bottom of Well Elevation (ft msl)	Ground Elevation (ft msl)	Top of Casing Elevation (ft msl)	Depth to Top of Red Beds (ft bgs)	Top of Red Bed Elevation (ft msl)
PZ-36	7/20/05	78.98	3419.51	3494.79	3498.49	75.0	3419.79
PZ-44	1/22/08	82.98	3416.90	3496.59	3499.88	77.1	3419.49
PZ-46	1/23/08	93.83	3412.04	3502.38	3505.87	87.4	3414.98
PZ-47	1/24/08	92.22	3411.56	3500.60	3503.78	87.0	3413.60
PZ-57	1/23/08	99.56	3415.44	3511.79	3515.00	93.5	3418.29
TP-64	1/11/08	70.81	3433.99	3502.08	3504.80	65.3	3436.78
TP-65	1/11/08	57.68	3436.07	3490.40	3493.75	52.5	3437.90
TP-66	1/10/08	57.78	3430.88	3485.45	3488.66	51.0	3434.45
TP-76	2/7/08	53.42	3436.78	3487.06	3490.20	47.1	3439.96
TP-77	2/7/08	51.30	3436.09	3484.19	3487.39	45.4	3438.79
TP-83	2/11/08	55.55	3435.60	3487.77	3491.15	49.8	3437.97
TP-84	2/12/08	65.24	3429.59	3491.56	3494.83	58.7	3432.86
TP-87	3/15/08	49.02	3438.47	3484.17	3487.49	43.3	3440.87
TP-136	3/20/09	55.21	3438.01	3490.17	3493.22	50.5	3439.67
TP-137	3/20/09	56.46	3434.68	3488.00	3491.14	51.5	3436.50

PROJECT: Waste Control Specialists LLC LOCATION: Andrews County, TX					WELL / BORING NO: PZ-36				
DATE: 7/20/2005 DRILLING COMPANY: Groundwater Monitoring, Inc. DRILLING EQUIPMENT: CME 75 DRILLING METHOD: HSA to 30', Air Rotary 30' to TD					NORTHING: 6878185.3457 EASTING: 563718.5732 ELEVATION: 3495 TOTAL DEPTH: 78.0' LOGGED BY: Ed Hughes				

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	Water Level	ELEV (ft)	WELL CONSTRUCTION
0		SP	Fine SAND, dry, tan. CALICHE, moderately hard, very dry, white to tan.					3495	Concrete
5								3490	Cement/Bentonite Slurry
10		SP	SAND, fine grained, well sorted, loose, dry, reddish brown. Similar to above (STA), damp at 9'.					3485	
15								3480	
20		SC	Clayey SAND, fine grained, loose, damp, reddish brown.					3475	
25								3470	
30			CALICHE, orange sand matrix, moderately hard, dry.					3465	
35			Similar to above but slightly harder at 34'.					3460	Bentonite Chips
40			CALICHE, very hard, dry, pisolitic, white to tan.					3455	
45								3450	
50								3445	
55			Sandy GRAVEL, moderately hard, chert gravel is various colors, generally less than 1" diameter, and sub-rounded, dry.					3440	
60								3435	
65		GW						3430	2-Inch Diameter PVC
70								3425	Slotted PVC
75		CL	CLAY, stiff, dry, maroon.					3420	Sand
80			TD = 79'					3415	Slough

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PROJECT NO. 05049.01

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PROJECT: Waste Control Specialists LLC				WELL / BORING NO: PZ-44			
LOCATION: Andrews County, TX							
DATE: 1/22/2008				NORTHING: 6879514.4814			
DRILLING COMPANY: Talon LPE				EASTING: 561028.2106			
DRILLING EQUIPMENT: Reichdrill T-650-WII				ELEVATION: 3496.6'			
DRILLING METHOD: Air Rotary				TOTAL DEPTH: 81' LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
0		SP	SAND, fine grained, well sorted, loose, dry, orange to tan.					3495	Cement/Bentonite Slurry 2-Inch Diameter PVC
5			CALICHE, moderately hard, dry, light gray, pisolitic with tan sandy matrix.					3490	
10			SAND, well sorted, loose, dry, orange to tan.					3485	
15		SP						3480	
20								3475	
25								3470	
30			CALICHE, moderately hard, dry, light gray, pisolitic.					3465	
35								3460	Bentonite Chips
40								3455	
45			Similar to above, very hard, white to light gray.					3450	
50								3445	
55			Gravelly SAND, well graded, loose, dry, tan.					3440	
60		SW						3435	Sand
65			Sandy GRAVEL, well graded, well cemented with tan sandy matrix. Gravel is various colored chert, sub-angular to sub-rounded gravel.					3430	
70		GW						3425	2-Inch Diameter PVC Screen
75								3420	
80			Saturated, CLAYSTONE (77.1'), plastic, maroon.					3415	Well End Cap
			TD = 81'						

CJ1 BORING LOG WITH WELL VCS 03047.05 2008.GPJ CJ1 LOG WITH WELL GDT 09/11/07

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PROJECT: Waste Control Specialists LLC LOCATION: Andrews County, TX				WELL / BORING NO: PZ-46			
DATE: 1/23/2008 DRILLING COMPANY: Talon LPE DRILLING EQUIPMENT: Reichdrill T-650-WII DRILLING METHOD: Air Rotary				NORTHING: 6879390.3302 EASTING: 563517.2915 ELEVATION: 3502.4' TOTAL DEPTH: 91' LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
0		SP	SAND, well sorted, loose, dry, orange to tan.					3500	TOC ELEV: 3505.87' Cement/Bentonite Slurry 2-Inch Diameter PVC Bentonite Chips Sand 2-Inch Diameter PVC Screen Well End Cap
5			CALICHE, moderately hard, dry, tan, with orange sand matrix.					3495	
10			SAND, fine grained, well sorted, loose, dry, light brown to orange.					3490	
15								3485	
20								3480	
25		SP	Similar to above (STA), moist.					3475	
30								3470	
35								3465	
40								3460	
45			CALICHE, moderately hard with tan sand matrix, dry, light gray, pisolitic.					3455	
50			STA, hard, light gray to white.					3450	
55			STA, very hard.					3445	
60								3440	
65		SW	Gravelly SAND, well graded, loose, dry, tan to light brown.					3435	
70								3430	
75			Sandy GRAVEL, well graded, loose, dry. Gravel is various colored chert in a tan sand matrix.					3425	
80		GW						3420	
85								3415	
90			CLAYSTONE (87.4'), stiff, maroon.					3410	
91			TD = 91'					3405	

C/J BORING LOG WITH WELL WCS 03047.05 2008.GPJ C/J LOG WITH WELL GDT 08/11/07

PROJECT: Waste Control Specialists LLC LOCATION: Andrews County, TX				WELL / BORING NO: PZ-47			
DATE: 1/24/2008 DRILLING COMPANY: Talon LPE DRILLING EQUIPMENT: Reichdrill T-650-WII DRILLING METHOD: Air Rotary				NORTHING: 6878917.0254 EASTING: 565277.6223 ELEVATION: 3500.6' TOTAL DEPTH: 89.5'			
				LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	O/A (PPM)	ELEV (ft)	WELL CONSTRUCTION
5	SP		SAND, fine grained, well sorted, loose, dry, orange to light brown.					3500	TOC ELEV: 3503.78' Cement/Bentonite Slurry 2-Inch Diameter PVC
10			CALICHE, moderately hard, dry, light gray to tan.					3495	
15			SAND, fine grained, well graded, loose, dry, orange to light brown.					3490	
20								3485	
25								3480	
30								3475	
35								3470	
40								3465	
45								3460	
50								3455	
55			Similar to above, very hard, light gray to white.					3450	Bentonite Chips
60								3445	
65			Gravelly SAND, well graded, loose, dry, tan to light brown, various colored chert gravel.					3440	
70								3435	
75								3430	
80								3425	
85								3420	
90								3415	
95								3410	
100								3405	

CJ COOK-JOYCE INC. ENGINEERING AND CONSULTING 812 WEST ELEVENTH AUSTIN, TEXAS 78701-2000 (512) 474-9097 FAX (512) 474-8463	This boring log should not be used separately from the original report. PROJECT NO. 03047.05
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CJI BORING LOG WITH WELL WCS 03047.05 2008.GPJ CJI LOG WITH WELL GDT 081117

PROJECT: Waste Control Specialists LLC				WELL / BORING NO:			
LOCATION: Andrews County, TX				PZ-57			
DATE: 1/23/2008				NORTHING: 6880721.3582			
DRILLING COMPANY: Talon LPE				EASTING: 563883.6205			
DRILLING EQUIPMENT: Reichdrill T-650-WII				ELEVATION: 3511.8'			
DRILLING METHOD: Air Rotary				TOTAL DEPTH: 98' LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
5	SP	SP	SAND, well sorted, dry, orange to light brown.					3510	Cement/Bentonite Slurry 2-Inch Diameter PVC
10			Similar to above (STA), moist.					3505	
15	SP	SP	CALICHE, moderately hard with orange sandy matrix, dry, light gray.					3500	Bentonite Chips
20								3495	
25								3490	
30								3485	
35	SP	SP	SAND, fine grained, well sorted, loose, dry, orange.					3480	Sand
40								3475	
45								3470	
50								3465	
55	SW	SW	CALICHE, moderately hard, dry, light gray, pisolitic.					3460	2-Inch Diameter PVC Screen
60								3455	
65								3450	
70								3445	
75	GW	GW	STA, very hard, dry, white to light gray.					3440	Well End Cap
80								3435	
85								3430	
90								3425	
95	GW	GW	Gravelly SAND, well graded, loose, dry, various colored chert gravel.					3420	
100								3415	
105	GW	GW	SANDY GRAVEL, well cemented. Gravel is sub-rounded and various colored. Sand is tan.					3410	
110								3405	
115	GW	GW	CLAYSTONE (93.5'), stiff, maroon.						
120									
125	GW	GW	TD = 98'						
130									

CJL BORING LOG WITH WELL WCS 03047.05 2008.GPJ CJL LOG WITH WELL GDT 06/11/07

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PROJECT NO. 03047.05

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PROJECT: Waste Control Specialists LLC LOCATION: Andrews County, TX				WELL / BORING NO: TP-64			
DATE: 1/11/2008 DRILLING COMPANY: Talon LPE DRILLING EQUIPMENT: Reichdrill T-650-WII DRILLING METHOD: Air Rotary				NORTHING: 6877785.005 EASTING: 562244.1728 ELEVATION: 3502.1' TOTAL DEPTH: 68.1' LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
		ML	Sandy SILT, dry, tan.					3500	TOC ELEV: 3504.80' Cement/Bentonite Slurry 2-Inch Diameter PVC Bentonite Chips Sand 2-Inch Diameter PVC Screen Well End Cap
5			CALICHE, moderately hard with tan sandy matrix, dry.					3495	
10								3490	
15								3485	
20								3480	
25								3475	
30			Similar to above (STA), hard, dry, light gray to white.					3470	
35								3465	
40								3460	
45			STA, very hard, dry, light gray to white.					3455	
50								3450	
55		GW	Sandy GRAVEL, well cemented, dry, various colored gravel and light gray to pink sand. Gravel is sub-rounded. Fossils.					3445	
60								3440	
65			CLAYSTONE (65.3'), stiff, dry, maroon.					3435	
70			TD = 68.1'					3430	

CJI BORING LOG WITH WELL WCS 03047.05 2008 GPJ CJI LOG WITH WELL GDT 08/11/07

PROJECT: Waste Control Specialists LLC LOCATION: Andrews County, TX				WELL / BORING NO: TP-65			
DATE: 1/11/2008 DRILLING COMPANY: Talon LPE DRILLING EQUIPMENT: Reichdrill T-650-WII DRILLING METHOD: Air Rotary				NORTHING: 6876654.5425 EASTING: 563621.5985 ELEVATION: 3490.4' TOTAL DEPTH: 54.5' LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
0		ML	Sandy SILT, loose, dry, tan.					3490	TOC ELEV: 3493.75' Cement/Bentonite Slurry 2-Inch Diameter PVC Bentonite Chips Sand 2-Inch Diameter PVC Screen Well End Cap
5			CALICHE, moderately hard with tan sandy matrix, dry, light gray.					3485	
10								3480	
15								3475	
20								3470	
25			Similar to above (STA), hard.					3465	
30			STA, very hard, light gray to white.					3460	
35								3455	
40								3450	
45								3445	
45		GW	Sandy GRAVEL, poorly sorted, loose, dry. Gravel is sub-rounded and various colored. Tan sandy matrix.					3445	
50								3440	
52.5			CLAYSTONE (52.5'), stiff, dry, maroon with thin gray banding.					3435	
54.5			TD = 54.5'					3435	

CJL BORING LOG WITH WELL WCS 03047.05 2008.GPJ CJL LOG WITH WELL.GDT 09/11/05

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PROJECT: Waste Control Specialists LLC LOCATION: Andrews County, TX				WELL / BORING NO: TP-66			
DATE: 1/10/2008 DRILLING COMPANY: Talon LPE DRILLING EQUIPMENT: Reichdrill T-650-WII DRILLING METHOD: Air Rotary				NORTHING: 6876728.3713 EASTING: 564210.1596 ELEVATION: 3485.4' TOTAL DEPTH: 54.9'			
				LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
		ML	Sandy SILT, dry.					3485	TOC ELEV: 3488.66' ← Cement/Bentonite Slurry ← 2-Inch Diameter PVC
5			CALICHE, moderately hard with orange to red sandy matrix, dry, light gray.					3480	
10								3475	
15								3470	
20								3465	
25								3460	← Bentonite Chips
30			Similar to above (STA), very hard, dry, light gray to white.					3455	
35								3450	
40								3445	
45		SW	Gravelly SAND, dry, with fossils. Gravel is various sized and various colored. Sand is tan.					3440	← Sand
50								3435	← 2-Inch Diameter PVC Screen
55			CLAYSTONE (51.0'), stiff, dry, gray. STA, maroon at 52'.					3430	← Well End Cap
			TD = 54.9'						

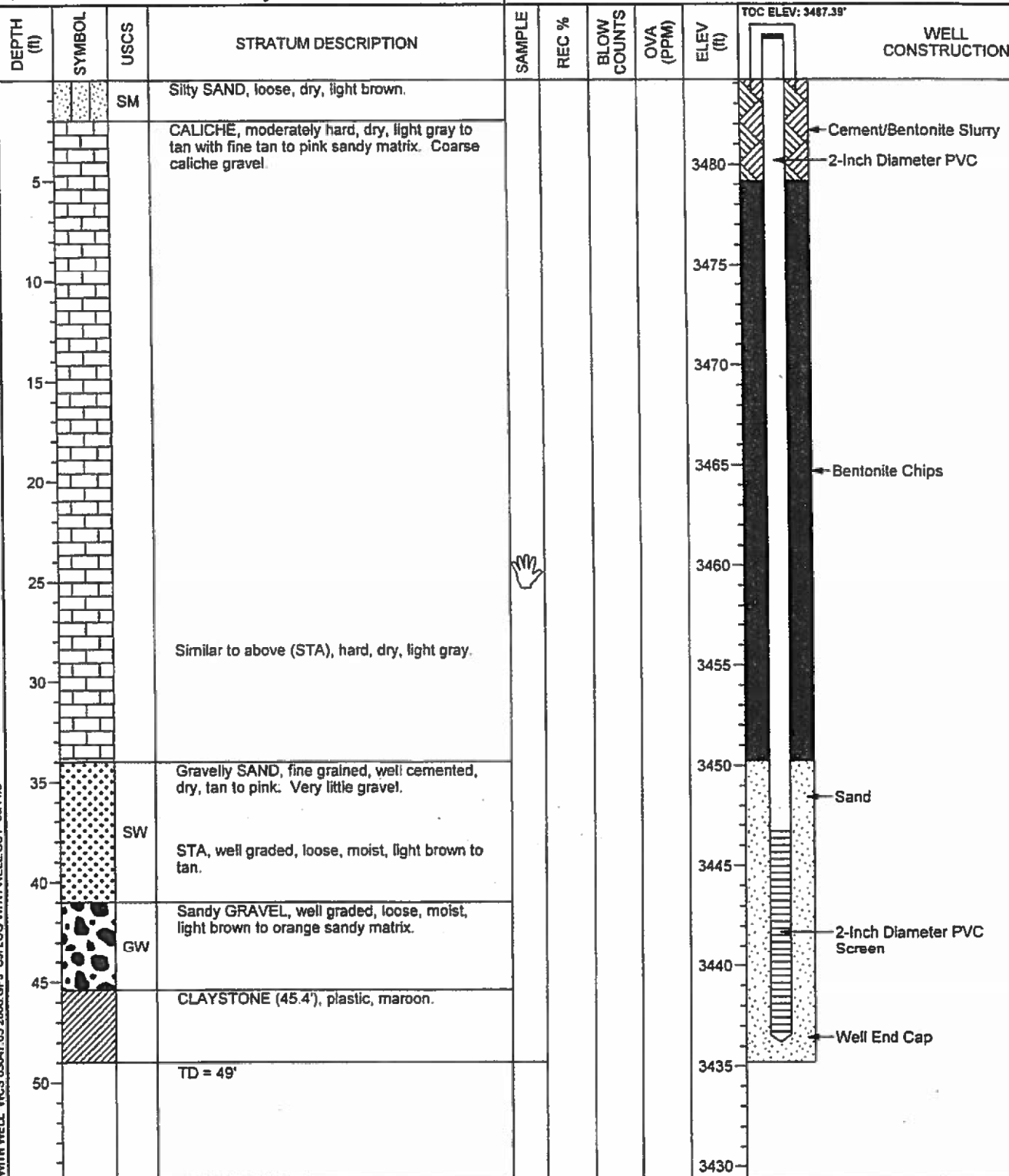
C/J BORING LOG WITH WELL WCS 03047.05 2008.GPJ C/J LOG WITH WELL.GDT 08/11/08

PROJECT: Waste Control Specialists LLC				WELL / BORING NO: TP-76			
LOCATION: Andrews County, TX							
DATE: 2/7/2008				NORTHING: 6877359.4945			
DRILLING COMPANY: Talon LPE				EASTING: 561121.9423			
DRILLING EQUIPMENT: Reichdrill T-650-WII				ELEVATION: 3487.1'			
DRILLING METHOD: Air Rotary				TOTAL DEPTH: 50.3' LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
		SM	Silty SAND, loose, dry, brown to light brown.						TOC ELEV: 3490.20' 3485 Cement/Bentonite Slurry 2-Inch Diameter PVC 3480 3475 3470 3465 Bentonite Chips 3460 3455 3450 Sand 3445 2-Inch Diameter PVC Screen 3440 Well End Cap 3435
5			CALICHE, moderately hard, dry, light gray to tan with tan sandy matrix.						
10									
15									
20									
25									
30			Similar to above (STA), hard, dry, light gray to white, pisolitic.						
35			STA, very hard, dry, light gray to white.						
40									
45		GW	Sandy GRAVEL, well graded, well cemented grading to loose, dry, various colored gravel. Gravel is fine to medium and is sub-rounded. Sand is tan to pink.						
50			CLAYSTONE (47.1'), stiff, dry, maroon.						
			TD = 50.3'						

CJI BORING LOG WITH WELL WCS 03047.05 2008 GPJ CJI LOG WITH WELL GDT 08/17

PROJECT: Waste Control Specialists LLC		WELL / BORING NO:	
LOCATION: Andrews County, TX		TP-77	
DATE: 2/7/2008		NORTHING: 6876582.6779	
DRILLING COMPANY: Talon LPE		EASTING: 562237.5058	
DRILLING EQUIPMENT: Reichdrill T-650-WII		ELEVATION: 3484.2'	
DRILLING METHOD: Air Rotary		TOTAL DEPTH: 49' LOGGED BY: David Lawler	

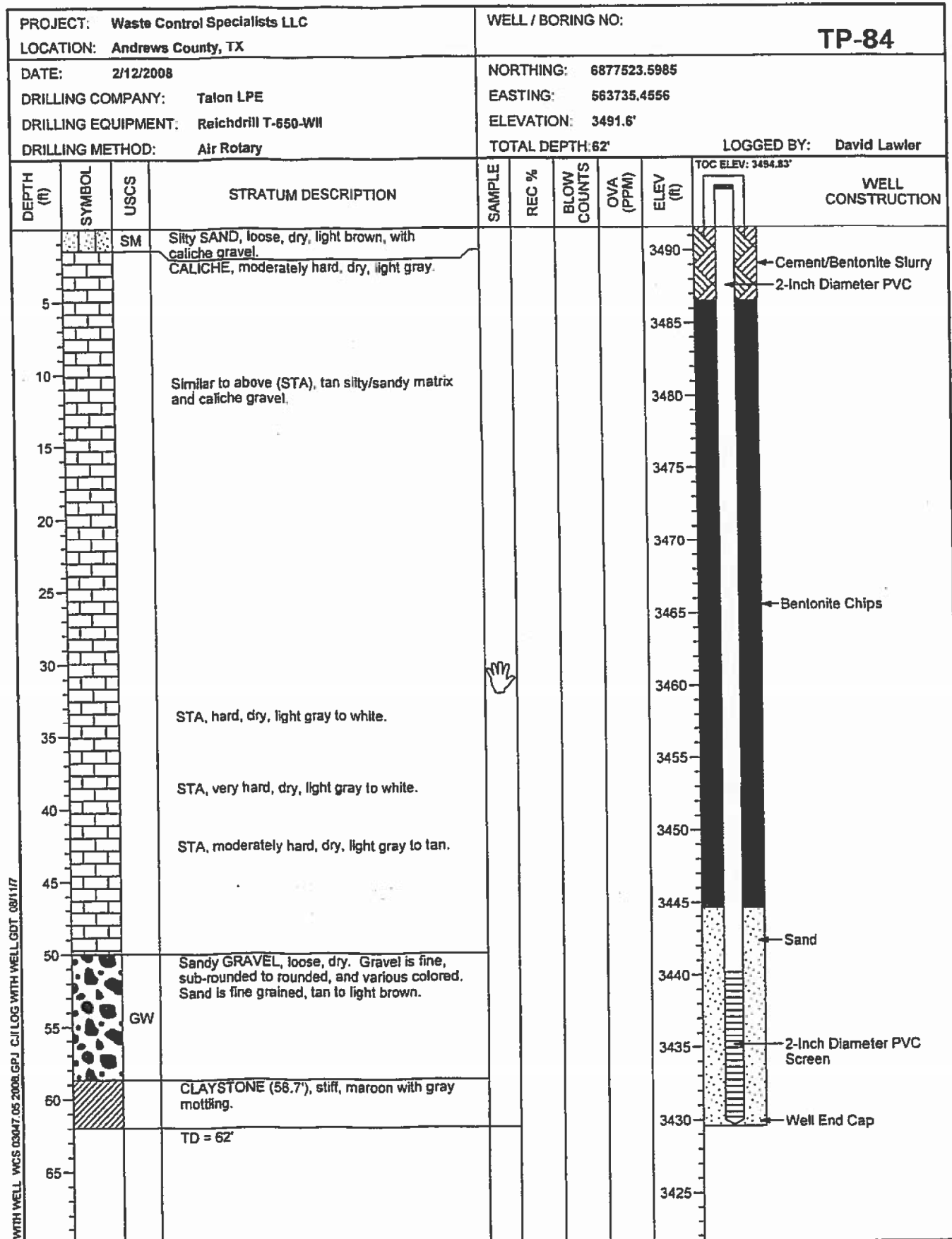


CJL BORING LOG WITH WELL WCS 03047.05 2008.GPJ CJL LOG WITH WELL GOT 08/11/08

PROJECT: Waste Control Specialists LLC LOCATION: Andrews County, TX				WELL / BORING NO: TP-83			
DATE: 2/11/2008 DRILLING COMPANY: Talon LPE DRILLING EQUIPMENT: Reichdrill T-650-WII DRILLING METHOD: Air Rotary				NORTHING: 6876337.3258 EASTING: 562910.9839 ELEVATION: 3487.8' TOTAL DEPTH: 52.5'			
				LOGGED BY: David Lawler			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
0		SM	Silty SAND, loose, dry, light brown. CALICHE, moderately hard; dry, light gray with tan sandy matrix.					3485	Cement/Bentonite Slurry 2-Inch Diameter PVC
5								3480	
10		SP	SAND, well sorted, loose, dry, light brown to orange.					3475	
15			CALICHE, moderately hard, dry, light gray with a tan sandy matrix.					3470	
20								3465	Bentonite Chips
25								3460	
30			Similar to above, very hard, dry, light gray to white.					3455	
35								3450	
40								3445	Sand
45		SW	Gravelly SAND, fine grained, very well cemented, dry, tan to pink. Gravel is fine, angular, and various colored.					3440	2-Inch Diameter PVC Screen
50			CLAYSTONE (49.8'), stiff, maroon with gray mottling.					3435	Well End Cap
52.5			TD = 52.5'					3430	

C/J BORING LOG WITH WELL - WCS 03047 05 2008.GPJ C/J LOG WITH WELL.GDT 08/11/08



CJI BORING LOG WITH WELL WCS 03047.05 2008 CJI CJI LOG WITH WELL GDT 08/11/17

PROJECT: Waste Control Specialists LLC				WELL / BORING NO:			
LOCATION: Andrews County, TX				TP-87			
DATE: 3/15/2008				NORTHING: 6877040.5809			
DRILLING COMPANY: Talon LPE				EASTING: 561611.0739			
DRILLING EQUIPMENT: Reichdrill T-650-WII				ELEVATION: 3484.2'			
DRILLING METHOD: Air Rotary				TOTAL DEPTH: 46.5' LOGGED BY: Ed Hughes			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
0		ML	SILT, dry, brown.					3487.49'	TOC ELEV: 3487.49'
5			CALICHE, relatively soft, dry, light gray to pink.					3480	Cement/Bentonite Slurry 2-Inch Diameter PVC
10								3475	
15								3470	
20								3465	Bentonite Chips
25			Similar to above (STA), very hard, dry, light gray.					3460	
30								3455	
35			Gravelly SAND, well cemented, hard, dry, chert gravel.					3450	Sand
40		SW	STA, not as hard from 41' to 43.3'.					3445	2-Inch Diameter PVC Screen
45			CLAYSTONE (43.3'), dry, maroon.					3440	Well End Cap
46.5			TD = 46.5'					3435	

CJL BORING LOG WITH WELL VCS 03047.05 2008.GPJ CJL LOG WITH WELL GDT 08/11/07

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PROJECT: Waste Control Specialists LLC LOCATION: Andrews County, TX				WELL / BORING NO: TP-136			
DATE: 3/17/2009 DRILLING COMPANY: Talon LPE DRILLING EQUIPMENT: Reich Drill T-650-WII DRILLING METHOD: Air Rotary				NORTHING: 6876252.323 EASTING: 563381.4964 ELEVATION: 3490.2' TOTAL DEPTH: 52.2' LOGGED BY: Van Volkenburg			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
		ML	SILT with caliche pieces, moist, brown. CALICHE, relatively soft, orange sand matrix, slight cementation, moist.					3485	TOC ELEV: 3493.22' Cement/Bentonite Slurry 2-Inch Diameter PVC
5								3480	
10								3475	
15								3470	
20			Similar to above (STA), harder, some burnt orange sand.					3465	Bentonite Chips
25			STA, CAPROCK, very hard between 25' and 30', dry.					3460	
30								3455	
35								3450	
40								3445	
45			Gravelly SAND, abundant chert, dry, white.					3440	Sand
50		SW	CLAYSTONE (50.5'), hard, dry, red.					3435	2-Inch Diameter Slotted PVC
52.2			TD = 52.2'						Well End Cap

CJI BORING LOG WITH WELL WCS 03047.08 BL MARCH TO APRIL 09 GPJ CJI LOG WITH WELL GDT 0911/30

PROJECT: Waste Control Specialists LLC				WELL / BORING NO: TP-137			
LOCATION: Andrews County, TX							
DATE: 3/17/2009				NORTHING: 6876274.76			
DRILLING COMPANY: Talon LPE				EASTING: 564031.6267			
DRILLING EQUIPMENT: Reich Drill T-650-WII				ELEVATION: 3488.0'			
DRILLING METHOD: Air Rotary				TOTAL DEPTH: 53.3' LOGGED BY: Hughes/Van Volkenburg			

DEPTH (ft)	SYMBOL	USCS	STRATUM DESCRIPTION	SAMPLE	REC %	BLOW COUNTS	OVA (PPM)	ELEV (ft)	WELL CONSTRUCTION
		ML	SILT, dry, brown.						
5			CALICHE, relatively soft, dry, tan to pink.					3485	Cement/Bentonite Slurry 2-Inch Diameter PVC
10								3480	
15			Similar to above (STA), abundant sand, some cementation, caliche nodules, dry, burnt orange.					3475	
20								3470	Bentonite Chips
25								3465	
30			STA, relatively soft, dry, tan to pink.					3460	
35								3455	
40			CAPROCK, very hard, dry, white to gray.					3450	Sand
45								3445	
50		SW	Gravelly SAND, hard, abundant chert, dry, tan to light orange sand.					3440	2-Inch Diameter Slotted PVC
53.3			CLAYSTONE (51.5'), hard, dry, maroon.					3435	Well End Cap
55			TD = 53.3'					3430	

CJL BORING LOG WITH WELL WCS 03047 08 BL MARCH TO APRIL 09 GPJ CJL LOG WITH WELL GDT 09/11/20