Appendix C

Borehole Logs (on CD included with this document)

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Location Planning ID: 7c-1 **Date Drilled:** 02/04/10

Borehole Location ID: 15-610816 Attitude: Vertical

TA- 15 AOC/SWMU: 15-007(c) Drill Operator: Stanley Johnson

Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 2

Drilling Equipment: CME-750 Hollow Stem Auger **Geologist:** Jon Marin

Sampling Equipment: Wireline Core Total Depth (ft): 182.5

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 0 5		0	33	1748	RE15-10-8174 (3.5'-5')		(0.0, 2.0) Soil: Medium brown, sandy silty topsoil, moist. (2.0, 122.0)	Borehole 15- 610816 is located approximately 500 ft east of firing site R- 45 in TA-15.
- 10 - 15 - 20 - 25		0	33	2120	RE15-10-8175/8225 (17.5'-20')		Obt3: Light pinkish gray, moderately indurated, nonwelded, devitrified, dry ash flow tuff. Intercalated intervals of nonindurated to weakly indurated ash flow tuff.	HE spot test on surface soil = negative
- 30 - 35 - 40	- Hollow Stem Auger	0	16	1935	RE15-10-8176 (34'-35')			
_ 45 _ 50 _ 55		0	16	1783	RE15-10-8177 (49'-50')			
- 60 - 65 - 70		0	5	1755	RE15-10-8178 (65'-66')			

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Borehole Location ID: 15-610816 Page 2 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
75 - 80 - 85		0	20	643	RE15-10-8179 (79'-80")		Qbt3 continued. Light gray, nonindurated, nonwelded, devitrified, dry ash flow tuff.	
90 95 100		0	23.1	1410	RE15-10-8180 (94'-95")			
- 105 - 110 - 110 - 115	Hollow Stem Auger	0	10	2700	RE15-10-8181 (109'-110')			
120 - 125 - 130	Noll ———————————————————————————————————	0	10	1053	RE15-10-8182 (124'-125')		(122.0, 168.0) Qbt2: Light reddish gray, strongly indurated, moderately welded, devitrified, dry, ash flow tuff.	
135 - 140 - 145		0	3	1680	RE15-10-8183 (139 ⁻ -140')	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
150 - 155		0	24	1397	RE15-10-8184 (154'-155')	 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		

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Borehole Location ID: 15-610816 Page 3 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
155						999	Qbt2 continued. Light reddish	
160)	gray, strongly indurated, moderately welded, devitrified, dry, ash flow tuff.	
165	Auge					99	•	
_ _ 170	Hollow Stem Auger	0	20	1397	RE15-10-8185	000 000 000	(168.0, 182.5)	
- - - 176	Hollow				(169'-170')		Qbt1v: Light gray, nonindurated to slightly indurated, nonwelded, devitrified, dry ash flow tuff.	
_ 175 _ _							,,	
180		0	24	1397	RE15-10-8210 (181.5'-182.5')			TD = 182.5 ft.

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Location Planning ID: 7c-4 **Date Drilled:** 02/09/10

Borehole Location ID: 15-610817 Attitude: Vertical

TA- 15 AOC/SWMU: 15-007(c) Drill Operator: Stanley Johnson

Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 4

Drilling Equipment: CME-750 Hollow Stem Auger Geologist: Jon Marin

Sampling Equipment: Wireline Core Total Depth (ft): 182.5

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 0 5 10 15			14	2040	RE15-10-8186 (4'-5')		(0.0, 4.0) Soil: Medium brown, sandy silty topsoil, moist. (4.0, 124.0) Qbt3: Light pinkish gray, moderately indurated, nonwelded, devitrified, dry ash flow tuff.	Borehole 15- 610817 is located approximately 500 ft east of firing site R- 45 in TA-15. HE spot test on surface soil = negative.
_ 20 _ 25		NA	9	2121	RE15-10-8187/8226 (18'-20')		Intercalated intervals of nonindurated to weakly indurated ash flow tuff.	
- 30 - 35 - 40	Hollow Stem Auger -	NA	33	224	RE15-10-8188 (34'-35')			
45 50 55		NA	48	2980	RE15-10-8189 (49'-50')			
60 		NA	72	427	RE15-10-8190 (64'-65')			

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Borehole Location ID: 15-610817 Page 2 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 75 - 80 - 85		NA	24	2230	RE15-10-8191 (79'-80')		Qbt3 continued. Light gray, nonindurated, nonwelded, devitrified, dry ash flow tuff.	
90 - 95 - 100		NA	24	2210	RE15-10-9192 (94'-95')			
105 - 110 - 115	Hollow Stem Auger	NA	19	2280	RE15-10-8193 (109'-110')			
120 - 125 - 130	IIOH —	NA	38	2660	RE15-10-8194 (124'-126')	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	(124.0, 171.0) Qbt2: Light reddish gray, strongly indurated, moderately welded, devitrified, dry, ash flow tuff.	
135 - 140 - 145		NA	19	2350	RE15-10-8195 (139'-140')	୬ ୧୯୯୭ ବିଷ୍ଟିବ୍ୟବ୍ୟବ୍ୟ ୧୯୯୭		
150 - 155						90000000000000000000000000000000000000		

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Borehole Location ID: 15-610817 Page 3 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
155 - 160 - 165 - 170	Hollow Stem Auger	NA	24	2410	RE15-10-8196 (156'-157.5')	ଡ଼ୡଡ଼ୡଡ଼ୡଡ଼ୡଡ଼ୡଡ଼ୡୡ ୡୡୡ୕ୡ୷ୡ୷ୡ୷ୡୡୡୡୡୡ	Qbt2 continued. Light reddish gray, strongly indurated, moderately welded, devitrified, dry, ash flow tuff.	
175 - 180	Hollow	NA NA	38	322	RE15-10-8197 (171.5'-172.5') RE15-10-8211		(171.0, 182.5) Qbt1v: Light gray, nonindurated to slightly indurated, nonwelded, devitrified, dry ash flow tuff.	TD = 182.5 ft.

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Location Planning ID: 7c-27 **Date Drilled:** 02/11/10

Borehole Location ID: 15-610818 Attitude: Vertical

TA- 15 AOC/SWMU: 15-007(c) Drill Operator: Stanley Johnson

Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 3.5

Drilling Equipment: CME-750 Hollow Stem Auger **Geologist:** Jon Marin

Sampling Equipment: Wireline Core Total Depth (ft): 182.5

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 0 5 10 15		NA	14	330	RE15-10-8198 (4'-5')		(0.0, 3.5) Soil: Medium brown, sandy silty topsoil, moist. (3.5, 123.5) Qbt3: Light pinkish gray, moderately indurated, nonwelded, devitrified, dry ash flow tuff.	Borehole 15- 610818 is located approximately 500 ft east of firing site R- 45 in TA-15. HE spot test on surface soil = negative
20 25		NA	28	212	RE15-10-8199 (19'-20')		Intercalated intervals of nonindurated to weakly indurated ash flow tuff.	
- 30 - 35 - 40	Hollow Stem Auger -	NA	9	240	RE15-10-8200 (34'-35')			
- 45 - 50 - 55		NA	24	215	RE15-10-8201 (49'-50')			
- 60 - 65 - 70		NA	19	420	RE15-10-8202/8227 (63.5'-65')			

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Borehole Location ID: 15-610818 Page 2 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 75 - 80 - 85		NA	22	282	RE15-10-8203 (79'-80')		Qbt3 continued. Light gray, nonindurated, nonwelded, devitrified, dry ash flow tuff.	
- - - - - - - - - - - - - - - - - - -		NA	6.5	257	RE15-10-8204 (94'-95')			
- 105 - 110 - 110 - 115	Hollow Stem Auger	NA	45	258	RE15-10-8205 (109'-110')			
120 - 125 - 130	Holl	NA	68	280	RE15-10-8206 (124'-130')	\$	(123.5, 165.0) Qbt2: Light reddish gray, strongly indurated, moderately welded, devitrified, dry, ash flow tuff.	
135 - 140 - 145		NA	59	640	RE15-10-8207 (139'-140')	90000000000000000000000000000000000000		
150 - 155		NA	32	275	RE15-10-8208			

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Borehole Location ID: 15-610818 Page 3 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
155					(154'-155')	999		
160						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Qbt2 continued. Light reddish gray, strongly indurated,	
- - 165	vuger					9	moderately welded, devitrified, dry, ash flow tuff.	
_	tem A							
- 170	Hollow Stem Auger	NA	5.9	275	RE15-10-8209 (169'-170')		Qbt1v: Light gray, nonindurated	
175	H						to slightly indurated, nonwelded, devitrified, dry ash flow tuff.	
_ 180					DE45 40 004-			
- 100		NA	71	264	RE15-10-8212 (180'-182.5')			TD = 182.5 ft.

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Location Planning ID: 7d-1 **Date Drilled:** 02/13/10

Borehole Location ID: 15-610819 Attitude: Vertical

TA- 15 AOC/SWMU: 15-007[d] Drill Operator: Stanley Johnson
Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 4

Drilling Equipment: CME-750 Hollow Stem Auger **Geologist:** Jon Marin

Sampling Equipment: Wireline Core Total Depth (ft): 182.5

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 0 5		NA	23	2280	RE15-10-8240 (3'-5')		(0.0, 4.0) Soil: Medium brown, sandy silty \topsoil, moist.	Borehole 15- 610819 is located approximately 500 ft east of firing site R-
- 10 15 20		NA	47	2600	RE15-10-8241 (19'-20')		(4.0, 118.0) Qbt3: Light pinkish gray, moderately indurated, nonwelded, devitrified, dry ash flow tuff. Intercalated intervals of	45 in TA-15. HE spot test on surface soil = negative.
25 - 25 - 30	vuger						nonindurated to weakly indurated ash flow tuff.	
35 - 40 - 45	Hollow Stem Auger	NA	17	2400	RE15-10-8242/8267 (33'-35')			
50 		NA	53	2510	RE15-10-8243 (49'-50')			
- 65 - 70		NA	89	2370	RE15-10-8244 (64'-65')			

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Borehole Location ID: 15-610819 Page 2 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 75 - 80		NA	47	2450	RE15-10-8245		Qbt3 continued. Light gray, nonindurated, nonwelded,	
85		TV.	47	2430	(79'-80')		devitrified, dry ash flow tuff.	
90		NA	41	2230	RE15-10-8246			
100					(104'-105')			
105 - 110	Auger ———	NA	36	2112	RE15-10-8247			
115	Hollow Stem Auger				(109'-110')		(440.0.400.0)	
120 - 125	¥ 	NA	46	2110	RE15-10-8248 (123.5'-125')	 	(118.0, 166.0) Qbt2: Light reddish gray, strongly indurated, moderately welded, devitrified, dry, ash flow tuff.	
130						10000000000000000000000000000000000000		
135 140		NA	10	1989	RE15-10-8249 (138.5'-140')	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
145						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
150 155		NA	36	1963	RE15-10-8250	9 9 9 9 9 9 9 9		

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Borehole Location ID: 15-610819 Page 3 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 155 -					(154'-155')	\(\theta \) \(moderately welded, devitrified, dry, ash flow tuff.	
160						999	·	
_ 165	Hollow Stem Auger					999		
-	stem /	NI A	27	2140	RE15-10-8251		(166.0, 182.5) Qbt1v: Light gray, nonindurated	
170 	llow 8	NA	36	2140	(169'-170')		to slightly indurated, nonwelded, devitrified, dry ash flow tuff.	
175	우							
_ 180					DE1E 10.03/4			
- 100	$oxedsymbol{oldsymbol{oxed}}$	NA	5	1956	RE15-10-8264 (181.5'-182.5')	0.0		TD = 182.5 ft.

Drill Operator: Stanley Johnson

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Location Planning ID: 7d-1 **Date Drilled:** 02/15/10

Borehole Location ID: 15-610820 Attitude: Vertical

TA- 15 AOC/SWMU: 15-007[d]

Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 4

Drilling Equipment: CME-750 Hollow Stem Auger Geologist: Jon Marin Sampling Equipment: Wireline Core Total Depth (ft): 180.0

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 0 - 5		NA	25	2070	RE15-10-8252 (4'-5')		(0.0, 4.0) Soil: Medium brown, sandy silty topsoil, moist.	Borehole 15- 610820 is located approximately 500 ft east of firing site R- 45 in TA-15.
10 - 15 - 20		NA	20	2040	RE15-10-8253/8268 (18'-20')		(4.0, 119.0) Qbt3: Light pinkish gray, moderately indurated, nonwelded, devitrified, dry ash flow tuff. Intercalated intervals of nonindurated to weakly indurated	HE spot test on surface soil = negative.
25 30	Auger ————						ash flow tuff.	
35 - 40 - 45	Hollow Stem Auger	NA	25	1845	RE15-10-8254 (34'-35')			
50 		NA	25	2100	RE15-10-8255 (48.5'-50')			
60 65 70		NA	15	1898	RE15-10-8256 (63.5'-65')			

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Borehole Location ID: 15-610820 Page 2 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 75 - 80		NA	30	2900	RE15-10-8257 (79'-80')		Qbt3 continued. Light gray, nonindurated, nonwelded, devitrified, dry ash flow tuff.	
- - - - - - - - 90								
95 - 100 - 105		NA	30	2150	RE15-10-8258 (93.5'-95')			
110 115	Hollow Stem Auger —	NA	15	2900	RE15-10-8259 (108.5'-110')			
120 - - - 125 - - 130	9H	NA	15	1898	RE15-10-8260 (124'-125')	$\overset{\circ\circ}{\otimes} \phi \phi$	(119.0, 174.0) Qbt2: Light reddish gray, strongly indurated, moderately welded, devitrified, dry, ash flow tuff.	
135 - 140 - 145		NA	41	1891	RE15-10-8261 (138.5'-140')	$\emptyset \emptyset $		
150 - 155		NA NA	51 CMF	2100	RE15-10-8262 (153.5'-155')	\$\$\$\$\$\$	gh oxplasivo: ID = identification: NA =	

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Borehole Location ID: 15-610820 Page 3 of 3

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
155 - 160	- J)	Qbt2 continued. Light reddish gray, strongly indurated, moderately welded, devitrified, dry, ash flow tuff.	
165 - 170	Hollow Stem Auger	NA	51	2120	RE15-10-8263 (168.5'-170')	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
175 - 180		NA	30	2040	RE15-10-8265 (179'-180')		(174.0, 180.0) Qbt1v: Light gray, nonindurated to slightly indurated, nonwelded, devitrified, dry ash flow tuff.	TD = 180.0 ft.

Drill Operator: Stanley Johnson

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Location Planning ID: 9b-5 **Date Drilled:** 02/17/10

Borehole Location ID: 15-610837 Attitude: Vertical

TA- 15 AOC/SWMU: 15-009[b]

Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 2

Drilling Equipment: CME-750 Hollow Stem Auger **Geologist:** Jon Marin **Sampling Equipment:** Wireline Core **Total Depth (ft):** 80.0

Beta/Gamma (dpm) Core Sample (bgs) **Drilling Method** Graphic Log Alpha (dpm) PID (ppm) Depth (ft) Lithology **Notes** Borehole 15-0 (0.0, 2.0)610837 is located Soil: Medium brown, sandy silty approximately 100 ft topsoil, moist. south of firing site R-45 in TA-15. 5 (2.0, 80.0)Qbt3: Light pinkish gray, HE spot test on moderately indurated, surface soil = nonwelded, devitrified, dry ash negative flow tuff. 10 Intercalated intervals of nonindurated to weakly indurated ash flow tuff. 15 Hollow Stem Auger 20 25 30 35 40

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Borehole Location ID: 15-610837 Page 2 of 2

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
- 45 - - - - 50 -		NA	10	2010	RE15-10-8316 (47.5'-50')		Qbt3 continued; Light gray, nonindurated, nonwelded, devitrified, dry ash flow tuff.	
- - 55 - - - - - - 60	Auger ————	NA	25	2080	RE15-10-8317 (58.5'-60')			
- - - 65 - -	—— Hollow Stem Auger	NA	20	1917	RE15-10-8318			
- 70 - - - - 75		IVA	20	1917	(68.5'-70')			
80		NA	36	1983	RE15-10-8319 (78.5'-80')			TD = 80.0 ft.

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Location Planning ID: 2-1 Date Drilled: 02/22/10

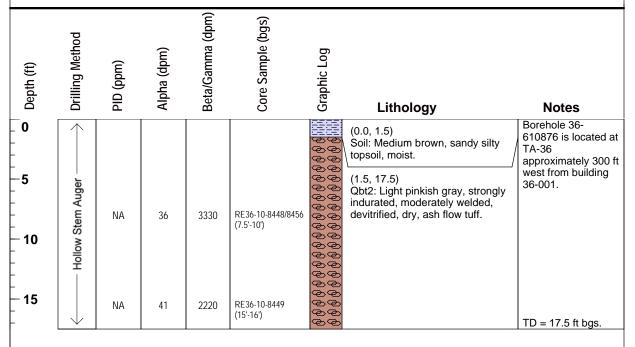
Borehole Location ID: 36-610876 Attitude: Vertical

TA- 36 AOC/SWMU: 36-002 Drill Operator: Stanley Johnson

Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 1.5

Drilling Equipment: CME-750 Hollow Stem Auger Geologist: Jon Marin

Sampling Equipment: Wireline core Total Depth (ft): 17.5



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Location Planning ID: 2-2 Date Drilled: 02/22/10

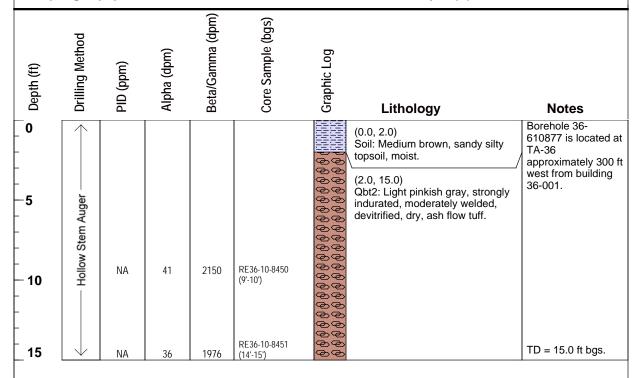
Borehole Location ID: 36-610877 Attitude: Vertical

TA- 36 AOC/SWMU: 36-002 Drill Operator: Stanley Johnson

Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 2.0

Drilling Equipment: CME-750 Hollow Stem Auger **Geologist:** Jon Marin

Sampling Equipment: Wireline core Total Depth (ft): 15.0



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Location Planning ID: 2-3 **Date Drilled:** 02/22/10

Borehole Location ID: 36-610878 Attitude: Vertical

TA- 36 AOC/SWMU: 36-002 Drill Operator: Stanley Johnson

Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 2.5

Drilling Equipment: CME-750 Hollow Stem Auger **Geologist:** Jon Marin **Sampling Equipment:** Wireline core **Total Depth (ft):** 10.0

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
	— Hollow Stem Auger —>	NA	56	2040	RE36-10-8452 (4'-5')	\$\$\$\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Qbt2: Light pinkish gray, strongly indurated, moderately welded,	Borehole 36- 610878 is located at TA-36 approximately 300 ft west from building 36-001.
_ 10	\downarrow	NA	46	2150	(9'-10')	99		TD = 10.0 ft bgs.

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Location Planning ID: 3a-6 **Date Drilled:** 02/17/10

Borehole Location ID: 36-610879 Attitude: Vertical

TA- 36 AOC/SWMU: 36-003[a] Drill Operator: Stanley Johnson Drilling Company: Stewart Brothers Drilling Company Depth to Soil/Tuff Interface (ft): 2

Drilling Equipment: CME-750 Hollow Stem Auger Geologist: Jon Marin

Sampling Equipment: Wireline core Total Depth (ft): 80.0

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
_ 0 - - - - - 5							(0.0, 2.0) Soil: Medium brown, sandy silty topsoil, moist. (2.0, 80.0) Qbt2: Light pinkish gray, strongly indurated, moderately welded,	Borehole 36- 610822 is located at TA-36 approximately 200 ft east from building 36-001.
- - - 10 -						\$	devitrified, dry, ash flow tuff.	
- - 15 - - - - - 20	uger					99999999999999999999999999999999999999		
- - - - - 25 -	Hollow Stem Auger					\$		
- 30 -						90000000000000000000000000000000000000		
- - 35 - - - - - - 40						\$		
- 40 - - - - 45			- CMF		.	\(\$\phi\text{\$\ph\text{\$\q\eti\text{\$\phi\text{\$\phi\text{\$\phi\text{\$\phi\text{\$\	who avalaging ID identification, NA	

Project: Threemile Canyon Aggregate Area Investigation Work Plan

Borehole Location ID: 36-610879 Page 2 of 2

Depth (ft)	Drilling Method	PID (ppm)	Alpha (dpm)	Beta/Gamma (dpm)	Core Sample (bgs)	Graphic Log	Lithology	Notes
45 - -		NA	28	3000	RE36-10-8462	\$	Qbt2 continued. Light pinkish gray, strongly indurated, moderately welded, devitrified,	
50 - - -			20	0000	(49'-50')	99999	dry, ash flow tuff.	
- 55 - -								
- 60 -	Hollow Stem Auger -	NA	19	758	RE36-10-8463 (59'-60')	99999		
- - 65 -	- Hollow St							
- 70		NA	97	549	RE36-10-8486 (69'-70')	\$\$\$\$\$\$\$		
- - - 75						99999		
_ _ _ 80		NA	30	681	RE36-10-8487/8489 (77.5'-80')	99999		TD = 80.0 ft bgs.