

KAFB-7001

	PROJECT NUMBER 146631.70.TT	BORING NUMBER KAFB-70-01	SHEET 1 OF 8
	SOIL BORING LOG		

PROJECT : ST-70 CMS Bioventing (Former ST-219) LOCATION : Parking lot N of site, just outside fence
 ELEVATION : NA DRILLING CONTRACTOR : Water Development Corp. / Mark Green
 DRILLING METHOD AND EQUIPMENT USED : Dresser T70W ARCH - Tricone
 WATER LEVELS : NA START : 5/17/2001 END : 05/19/01 LOGGER : B LeFevre/ABQ

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	RECOVERY (FT)	SAMPLE #/TYPE			
0	0-3	Cuttings		Silty Clay (CL) greyish-brown, moist, soft	1140 5/17/01
	3-4	Cuttings		Silty Clay (CL) creamy orang-tan, moist soft	
	4-6	Cuttings		Silty Clay (CL) orange-brown, moist soft	
	6-20	Cuttings		Silt (ML) red-brown, moist	
10					
20	20-28	Cuttings		Sandy & clayey silt (SM/CL) dk red-brown, moist	1150
	21	Cuttings		Caliche (CA) zone	
	28-35	Cuttings		Lean Clay (CL) dk red-brown, stiff, moist, layered w/Silt (ML) dk red-brown, moist	
30					
	35-42	Cuttings		Lean Clay (CL) dk red-brown, moist, stiff	
40					
	42-50	Cuttings		Silt (ML) dk red-brown, moist	
50					
	50-52	Cuttings		Lean Clay (CL) dk red-brown, wet	
	52-60	Cuttings		Poorly graded sand (SP) buff color, fine grained, moist	

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 WATER LEVELS : NA START : 05/17/01 END: 05/19/01 LOGGER : B LeFevre/ABQ

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-8"-8"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Headspace Analysis Time
	RECOVERY (FT)	SAMPLE #/TYPE			
60	60-63	Cuttings		S.A.A.	
	63-68	Cuttings		Gravelly sand (SW) buff color, moist, well rounded gravels w/lt tan pumice	
	68-78	Cuttings		Well graded sand (SW) buff color, moist, fine to coarse grained sand w/lt tan pumice	
70					
	78-84	Cuttings		Well graded sand (SW) fine to coarse grained sand w/ well rounded 5-cm gravels	
80	84-85	Cuttings		Well graded gravel (GW) w/ sand, fine to 5-cm gravels	
	85-95	Cuttings		Well graded sand (SW) buff colored, fine to coarse grained, moist	
90	95-98	Cuttings		Lean clay (CL) lt brown, soft, moist	
	98-100	Cuttings		Gravelly clay (CL) lt brown, soft, moist w/5-cm well rounded limestone gravels	
100	100-130	Cuttings		Silt (ML) buff colored, dry	
110				S.A.A.	



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 DRILLING METHOD AND EQUIPMENT USED : ARCH - Tricone
 WATER LEVELS : NA START : 05/17/01 END: 05/19/01 LOGGER : B LeFevre/ABQ

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-8"-8"-8" (N)	SOIL DESCRIPTION	COMMENTS
	RECOVERY (FT)	SAMPLE #/TYPE			
120				S.A.A	
130	130-155	Cuttings		Sandy gravel (GW) 2-cm gravels in fine grained sands	
140					
150	155-160	Cuttings		Gravelly sand (SW) buff colored, fine grained sand to 1-cm gravel	
160	160-165	Cuttings		Well graded sand (SW) buff colored, moist fine to medium grained	
	165-176	Cuttings		Poorly graded sand (SP) buff color, fine grained, moist	
170	176-187	Cuttings		Well graded sand (SW) fine to coarse grained	

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 DRILLING METHOD AND EQUIPMENT USED : ARCH - Tricone
 WATER LEVELS : NA START : 05/17/01 END: 05/19/01 LOGGER : B LeFevre/ABQ

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 8"-8"-8" (N)	SOIL DESCRIPTION	COMMENTS
180	187-188 188-199	Cuttings Cuttings		Gravelly Clay (CL) dk. Red-brown, wet, with fine gravels Clayey gravelly sand (CL) Poorly graded sand (SP) buff colored, fine, moist	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. CVM (ppm): Headspace Analysis Time
190	199-201	Cuttings		Gravelly sand (SW) buff moist	
200	201-204 204-205 205-210	Cuttings Cuttings Cuttings		Well graded sand (SW) buff colored, fine to coarse grained, moist Gravelly and clayey sand (SC) Poorly graded sand (SP) buff colored, fine grained, moist	
210	210-218 218-225	Cuttings Cuttings		Gravelly sand (SW) Poorly graded gravel (GP) 0.8 to 2.0-cm gravel, dry, well-rounded	
220	225-228 228-230	Cuttings Cuttings		Well graded sand (SW) buff colored, fine to coarse grained, moist Lean clay (CL) lt brown, soft moist	Adding water
230	230-240	Cuttings		Poorly graded gravel (GP) about 1-cm	

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 DRILLING METHOD AND EQUIPMENT USED : ARCH - Tricone
 WATER LEVELS : NA START : 05/17/01 END: 05/19/01 LOGGER : B LeFevre/ABQ

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 8"-8"-8" (N)	SOIL DESCRIPTION	COMMENTS
240	240-260	Cuttings		Gravelly sand (SW) buff colored	Water added to keep dust down
250					Begin new day 5/18/01 0700
260	260-268	Cuttings		Gravelly sand (SW) It brown, moist, well rounded 1 to 2-cm gravels, generally fine grained sand	
	268-285	Cuttings		Well graded sand (SW) buff colored, fine to medium grained, moist	
270					
280	280	Cuttings		S.A.A	
	285-286	Cuttings		Poorly graded sand (SP) buff colored, fine-grained, moist	
	286-288	Cuttings		Well graded sand (SW) buff colored, moist, coarse sand w/ tr. fine (<3/8 in) well rounded gravel	
	288-300	Cuttings		Poorly graded sand (SP) buff colored, fine-grained, moist	
290					

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 DRILLING METHOD AND EQUIPMENT USED : ARCH - Tricone
 WATER LEVELS : NA START : 05/17/01 END: 05/19/01 LOGGER : B LeFevre/ABQ

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	RECOVERY (FT)	SAMPLE #/TYPE			
300	300-305	Cuttings		Poorly graded sand (SP) buff colored, fine grained, dry	305 lost circulation
	305-306 306-312	Cuttings Cuttings		Sandy clay (CL) red-brown, soft, moist, Gravelly sand (SW) buff colored, fine to coarse grained sand w/1-cm gravel, moist	
310	312-314	Cuttings		Poorly graded sand (SP) buff colored, fine-grained, moist	
	314-320	Cuttings		Gravelly sand (SW)	
320	320-328	Cuttings		Poorly graded sand (SP) buff colored, fine-grained, moist	
	328-336	Cuttings		Poorly graded sand (SP) buff colored, fine-grained with minor Lean clay (CL) light brown, soft	
330	336-345	Cuttings		Silty clay (CL) light grey-tan, moist, soft	
340	345-355	Cuttings		Silty and sandy clay (CL) light grey-tan, moist soft	
350	355-360	Cuttings		Gravelly sandy silty clay (CL) buff colored moist soft clay, fine to 2-cm gravels	



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 DRILLING METHOD AND EQUIPMENT USED : ARCH - Tricone
 WATER LEVELS : NA START : 05/17/01 END: 05/19/01 LOGGER : B LeFevre/ABQ

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 0"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	RECOVERY (FT)	SAMPLE #/TYPE			
360	360-362	Cuttings		Poorly graded sand (SP) buff color, fine grained, moist Clayey & silty sand (SC/SM) buff color, moist, fine to coarse grained sands.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. OVM (ppm): Headspace Analysis Time
	362-375	Cuttings			
370	375-378	Cuttings		Gravelly sand (SW) buff, moist, silt to coarse grained sandw <1-cm gravels	
	378-382	Cuttings		Well graded sand (SW) buff color, silty to medium grained sand damp	
380	382-387	Cuttings		Poorly graded sand (SP) buff colored, fine, damp	
	387-394	Cuttings		Silty sand (SM) buff colored, dry	
390	394-397	Cuttings		Sandy silt (ML) buff dry	
	397-408	Cuttings		Well graded sand (SW) buff colored, silty to coarse gained, dry	
400					Adding water
410	412-414	Cuttings		Poorly graded sand (SP) buff colored, fine grained	

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 WATER LEVELS : NA START : 05/17/01 END: 05/19/01 LOGGER : B LeFavre/ABQ

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-8"-8" (N)	SOIL DESCRIPTION	COMMENTS
420	420-435		Cuttings		Well graded sand (SW) buff color, fine to medium grained, moist	
430	435-450		Cuttings		Sandy gravel (GW) buff color, moist, well rounded gravels	
440						
450	450-460		Cuttings		Poorly graded sand (SP) buff colored, fine-grained, moist	Begin drilling 5/19/01 1330
460	460-468		Cuttings		Silty clay (CL) tan-buff colored, soft moist	Little returns, cuttings stick to casing and cyclone
	468-480		Cuttings		Well graded sand (SW) buff color, fine to coarse grained, moist	
470						Wet at 470 ft bgs DTW @ 8-35-1 is 461 ft bgs
480	480		Cuttings		Gravelly sand (SW) buff colored, sand, well rounded gravels upto 3-cm	