Thiele Geotech, Inc.

INSTRUCTIONS: Please fill in blanks and circle the correct answers. Send three copies to Kansas Department of Health and Environment Bureau of Water, 1000 S W Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

Water Well Contractor's License No.

by (signature)

This Water Well Record was completed on (mo/day/yr) 5/22/07

SAIC.		in one	MONITORING WELL/BORING LOG BORING/M								ELL No: SI	BB-17/VSW-3 Pg. 1 of 2	
3	Facil 503 No Hay SAIC 06-681	lity # 21 orth Vir ys, Kan PROJE 8-00-86	e Street sas	DRILLER: Thiele Geotech POTHOLE METHOD: Water Knife/Vacu DRILLING METHOD: 2" by 2' split spoo DRILL BIT DIAMETER: 6 1/4" I.D. DATE POTHOLED: 11/7/06 DATE DRILLED: 11/10/06 WELL CONSTRUCTION: 11/10/06 WELL DEVELOPMENT: N/A GROUND ELEVATION:	Stem Aug							SVE WELL CA SVE WELL S AS WELL S	CK: No. 10-20 Silice Sand ER: 12" steel vault
Depth (ft.)	Blow Counts	% Recovery	LIT	HOLOGY / DESCRIPTION	Field Screen PID (ppm)	UVIF Screening	Head Space PID (ppm)	Head Space FID (ppm)	Soil Type	nscs	Water Level	Depth (ft.)	Well Construction/Remarks
_	to 8'		0'-6.5" Concrete 6.5"-4'		st, }-	NR	2.9	44.3				1—	Sand to 0.75'
		d to 8'	SILTY CLAY (CL)	, dark gray, medium plasticity, soft, moist, slight HC odor and possible HC staining.			10.0	41.1	CL			3	Top of grout @ 3'
	Potholed	Potholed to		L), brown, moist, medium-high plasticity, stiff, slight HC odor, no visible staining.			8.9	32.1				5 — 6	
			plasticity, <=5% fi	L), brown, moist, soft, low-medium ne sand, weak HC odor but no visible calcite inclusions and trace gravel.			14.9	63.7				7	Hydrated Medium Bentonite Chips Sand @ 7'
	1,4,4,5	75.00%			54.2	NR	405.0	121.0				9—	Sample SB17-S-(8- SVE Screened 8'-12'
	0,2,9,9	75.00%		starting at 10', but no visible staining.	1640.0	NR	2399.0	1008.0	ML			11 —	
	4,4,2,2	100.00%		clay content at ~13'.	1023.0	NR	5141.0	5000 FO				13—3	Hydrated Medium Bentonite Chips
	2,2,4,6	100.00%	15'-17' SILTY CLAY (CL	), brown, moist, sporadic limestone	3050.0	NR	4778.0	4113.0				15	Sand @ 14'
	3,5,7,9	100.00%	gravels, soft, <5% odors, medium-h 17'-24'	ine sand, no HC staining, but strong gh plasticity. Sporadic CaCO <sub>3</sub> inclusions.  L), same as 15'-17', but lower plasticity	2445.0	NR	5114.0	4392.0	CL			16—	SVE Screened 15'-21
_	4,6,7,9	100.00%	and higher silt co		2220.0	NR	5092.0	4188.0	ML			19	
_	4,6,9,11	100.00%			2295.0	NR	4795.0	4131.0			▼	21—	Sample SB17-S-(20

SAIC. MONITORING WELL/BORING LOG BORING/WELL No: SB-17/VSW-3 Pg. 2 of 2 DRILLER: Thiele Geotech HOLE DIAMETER: 10 1/4" POTHOLE METHOD: Water Knife/Vacuum Truck SVE WELL CASING: 2" SCH 40 PVC Former Texaco Bulk Terminal and Retail Facility # 211441 3503 North Vine Street AS WELL CASING: 1" SCH 80 PVC DRILLING METHOD: CME 55 - Hollow Stem Auger SAMPLE METHOD: 2" by 2' split spoon SVE WELL SCREEN: 2" SCH 40 PVC AS WELL SCREEN: 1" SCH 80 PVC DRILL BIT DIAMETER: 6 1/4" I.D. Hays, Kansas DATE POTHOLED: 11/7/06 Slot Size: 0.020" DATE DRILLED: 11/10/06 SEAL TYPE: Granular bentonite & chips, Portland cement SAIC PROJECT #: 06-6818-00-8670-100 WELL CONSTRUCTION 11/10/06 FILTER PACK: No. 10-20 Silica Sand WELL DEVELOPMENT: N/A WELL COVER: 12" steel vault LOGGED BY: Brad Wolfinger GROUND ELEVATION: CASING ELEVATION:

Depth (ft.)	Blow Counts	% Recovery	LITHOLOGY / DESCRIPTION	Field Screen PID (ppm)	UVIF	Head Space PID (ppm)	Head Space FID (ppm)	Soil Type	nscs	Water Level	Depth (ft.)	Well Construction/Re	marks
22 — 23 — 24 —	1,5,8,10	98:33%	*sand seam @23'8". Medium to coarse grained sand, ~6" thick, poorly sorted, gray staining, saturated.	1575.0	NR	4351.0	3980.0	ML			22		Coated bentonite chips
25 — 26 —	0,1,3,4	100.00%	*HC mottling starting in clayey silt starting at ~23'.  24'-30'  SILTY CLAY (CL), same as 17'-24', but softer and higher	1920.0	None	4418.0	3761.0				25 —		Sample SB17-S-(24'-26') AS Screened 25'-27'
27 — —	3,2,2,4	100.00%	plasticity. Slight increase in sand content, ~5-15% fine sand, moist-wet.  *sandy gravel layer at 26', ~6" thick.  *clayey fine sand layer at 26.5', ~6" thick.	15.8	None	602.0	295.0	CL			27 ——		A3 34 66 11 64 23 - 27
28 — 29 —	1,2,5,12	100.00%	*saturated at 26', still strong HC odor, slight mottling, but no bad staining. *sandy clay at ~29', find grained sorting down to coarse, gravelly sand with clay at 30'. No HC staining at 30', slight	16.3	None	910.0	399.0				28 — 29 —		Coated bentonite chips
30 — 31 — 32 —	1,3,10,5	100.00%	to no HC odor.  30'-32.5'  POORLY SORTED SANDS (SP), coarse to gravelly,	34.8	NR	319.0	136.0	SP	,,,,		30		Sand @ 30' Sample SB17-S-(30'-32') AS Screened 31'-33'
33 —	2,2,3,3	100.00%	saturated, loose, no HC impacts. 32.5'-34' SANDY, SILTY CLAY (SC), brown, wet, no HC impacts,	5.6	NR	203.0	73.7	CL			33 —		
35			soft to firmhigh plasticity.								35 —		Coated bentonite chips
36 —											37		
38 —											38		
40 —											40 —		
42											42 — — 43 —		

Notes: