

CORRECTION(S) TO WATER WELL RECORD (Form WWC-5)

(to rectify lacking or incorrect information)

LOCATION OF WATER WELL: County: Cherokee	Fraction _____ 1/4 _____ 1/4 <u>C 1/4 SE 1/4</u>	Section _____ 26	Township T <u>32</u> S	Range R <u>22</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W
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Owner: Chemex 1

Location was listed as: None Given
 Sec. _____ T _____ S R _____ E W
 Fraction: _____

Location changed to:
 Sec. 26 T 32 S R 22 E W
 Fraction: N/A

Other changes: Initial statements: No PLSS given. No use given.

Changed to: well is environmental remediation/soil vapor extraction.
 Well ID is VEW-1, per attached well log.

Comments: No WWC5 was received for this well.

Verification method: Address of well given on WWC5 plugging record, KGS water well interactive map, and WWC5 database.

initials: DLS date: 10/17/2012

Submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3726
 to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

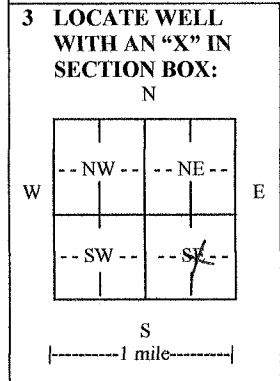
[Empty box for application number]

1 LOCATION OF WATER WELL: County: Cherokee, Fraction 1/4 1/4 1/4 1/4, Section Number, Township No. T S, Range Number R E W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here []. 3600 Northwest 74th St. Columbus, KS 66725

Global Positioning System (GPS) information: Latitude: (in decimal degrees), Longitude: (in decimal degrees), Elevation: Datum: [] WGS 84, [] NAD 83, [] NAD 27, Collection Method: [] GPS unit, [] Digital Map/Photo, [] Topographic Map, [] Land Survey, Est. Accuracy: [] <3 m, [] 3-5 m, [] 5-15 m, [] >15 m

2 WATER WELL OWNER: CHEMEX 1, RR#, Street Address, Box #: 16 South Pennsylvania, City, State, ZIP Code: OKC, OK 73107



3 LOCATE WELL WITH AN 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL 87 ft., Depth(s) Groundwater Encountered (1) (2) (3) ft., WELL'S STATIC WATER LEVEL ft. below land surface, Pump test data: Well water was ft. after hours pumping gpm, EST. YIELD gpm, Well water was ft. after hours pumping gpm, Bore Hole Diameter 8 in. to ft., and in. to ft., WELL WATER TO BE USED AS: [] Public water supply, [] Geothermal, [] Injection well, [] Domestic, [] Feedlot, [] Oil field water supply, [] Dewatering, [] Other (Specify below), [] Irrigation, [] Industrial, [] Domestic-lawn & garden, [] Monitoring well, Was a chemical/bacteriological sample submitted to Department? [] Yes [] No, If yes, mo/day/yr sample was submitted, Water well disinfected? [] Yes [] No

5 TYPE OF CASING USED: [x] Steel [] PVC [] Other, CASING JOINTS: [] Glued [] Clamped [] Welded [] Threaded, Casing diameter .5 in. to .77 ft., Diameter in. to ft., Diameter in. to ft., Casing height above land surface .36 in., Weight lbs./ft., Wall thickness or gauge No., TYPE OF SCREEN OR PERFORATION MATERIAL: [] Steel [] Stainless Steel [x] PVC [] Other (Specify), [] Brass [] Galvanized Steel [] None used (open hole), SCREEN OR PERFORATION OPENINGS ARE: [] Continuous slot [x] Mill slot [] Gauze wrapped [] Torch cut [] Drilled holes [] None (open hole), [] Louvered shutter [] Key punched [] Wire wrapped [] Saw cut [] Other (specify), SCREEN-PERFORATED INTERVALS: From ft. to ft., From ft. to ft., From ft. to ft., GRAVEL PACK INTERVALS: From ft. to ft., From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: [x] Neat cement [] Cement grout [] Bentonite [] Other, Grout Intervals: From 3.995 ft. to 70.000 ft., From ft. to ft., From ft. to ft., From ft. to ft., What is the nearest source of possible contamination: [] Septic tank [] Lateral lines [] Pit privy [] Livestock pens [] Insecticide storage [] Other (specify below), [] Sewer lines [] Cesspool [] Sewage lagoon [] Fuel storage [] Abandoned water well, [] Watertight sewer lines [] Seepage pit [] Feedyard [] Fertilizer storage [] Oil well/gas well, Direction from well, Distance from well

Table with 6 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Row 1: FROM, TO, see attached logs, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was [] constructed, [] reconstructed, or [x] plugged under my jurisdiction and was completed on (mo/day/year) 09/11/12 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 793. This Water Well Record was completed on (mo/day/year) 09/26/12 under the business name of Cahoy Pump Service, Inc. by (signature) [Signature]

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5524. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of \$5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

ARCADIS

Sample/Core Log (Cont.d)

Boring/Well VEW-1

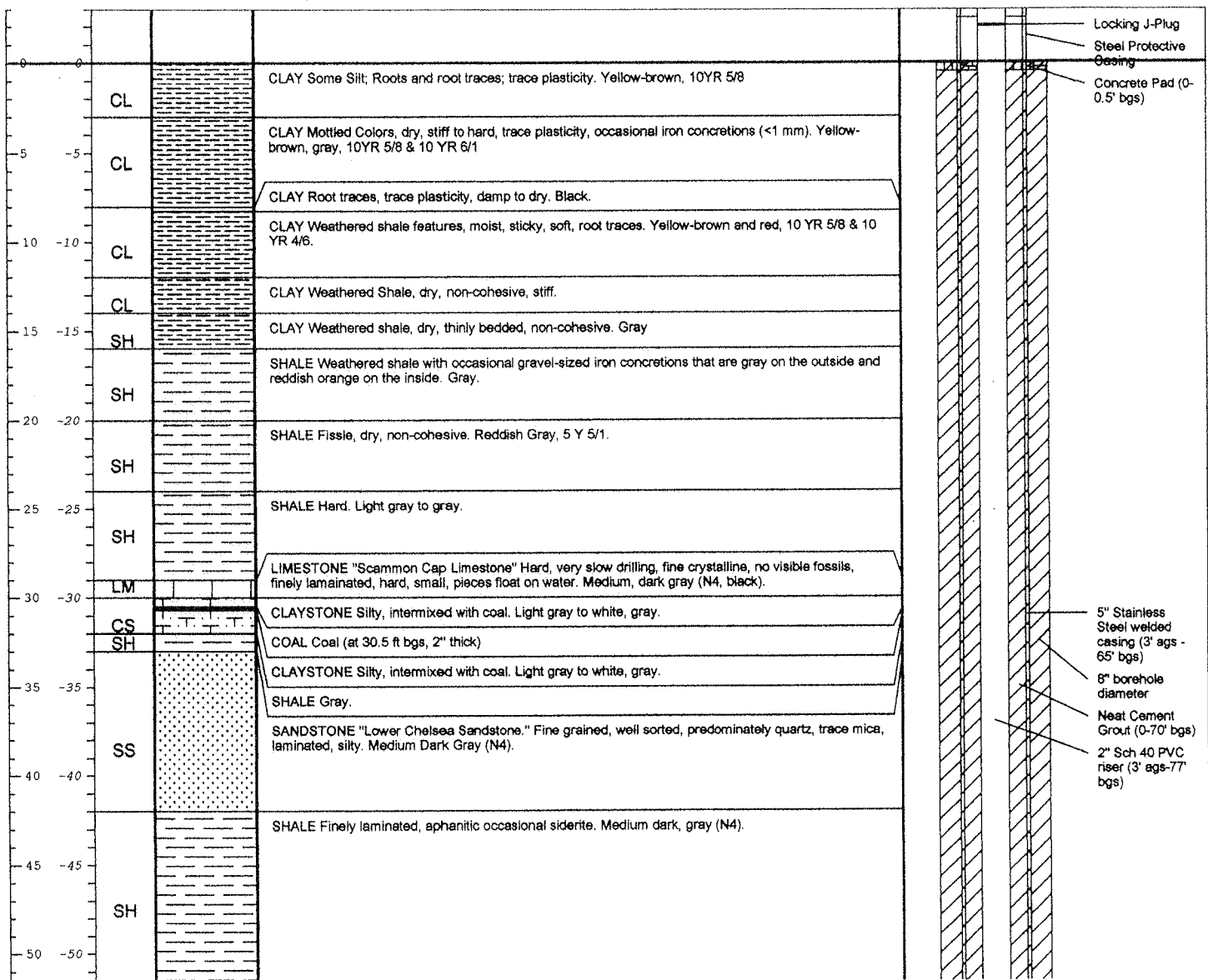
Page ____ of ____

Prepared by Larry Benolien est. ground level 869'

Sample/Core Depth (feet below land surface)	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
From	To		
Surf	13'		Clay - yellow brown to grey
13'	20		Weathered shale (clay) lean clay grey
20'	29'		Shale light grey to grey
29'	30'		Limestone, hard, dark grey
30'	30.5		Coal, black
30.5	32		Claystone, light grey soft
32	34		Shale, grey
34	44		Sandstone, medium grey, fine, silty
44	69.5		Shale dark grey medium hard
69.5	69.7		Coal, black, hard vitreous
69.7	84.5		Shale, light grey soft to medium hard
84.5	85.3		Coal, black, some vitreous, soft, dusty
85.3	93.5		Shale, medium grey, limy, medium hard
93.5	100.2		Shale, black, medium hard
			8-in Cable tool borehole surface to 65' bgs
			5-in Steel welded casing surface to 65' bgs
			4 7/8" Air rotary borehole 65' to 100.2' bgs
			2-in PVC 0.010-slotted screen set 77-87. bgs
			2-in PVC threaded riser set 77' to 3+ bgs
			Bentonite chips 90-100' bgs
			10/20 Sand pack 90-74.5' bgs
			Bentonite seal 74.5-70' bgs
			neat cement grout 70'-surface

Date Start/Finish: 10/16/2010 - 11/7/2010 Drilling Company: Cahoy Drilling, Fredricksburg, IA Driller's Name: Mark Classen Drilling Method: Cable Tool / Air Rotary Borehole Size: 8-in / 5-in Sampling Method: Cuttings	Borehole Depth: 100.2 ft bgs Surface Elevation: 869 ft AMSL (est.) Descriptions By: Larry Benolkin / Alex Walter	Well/Boring ID: VEW -1 Client: CHEMEX I Location: Hallowell, Kansas Project Number: KC001512.2010
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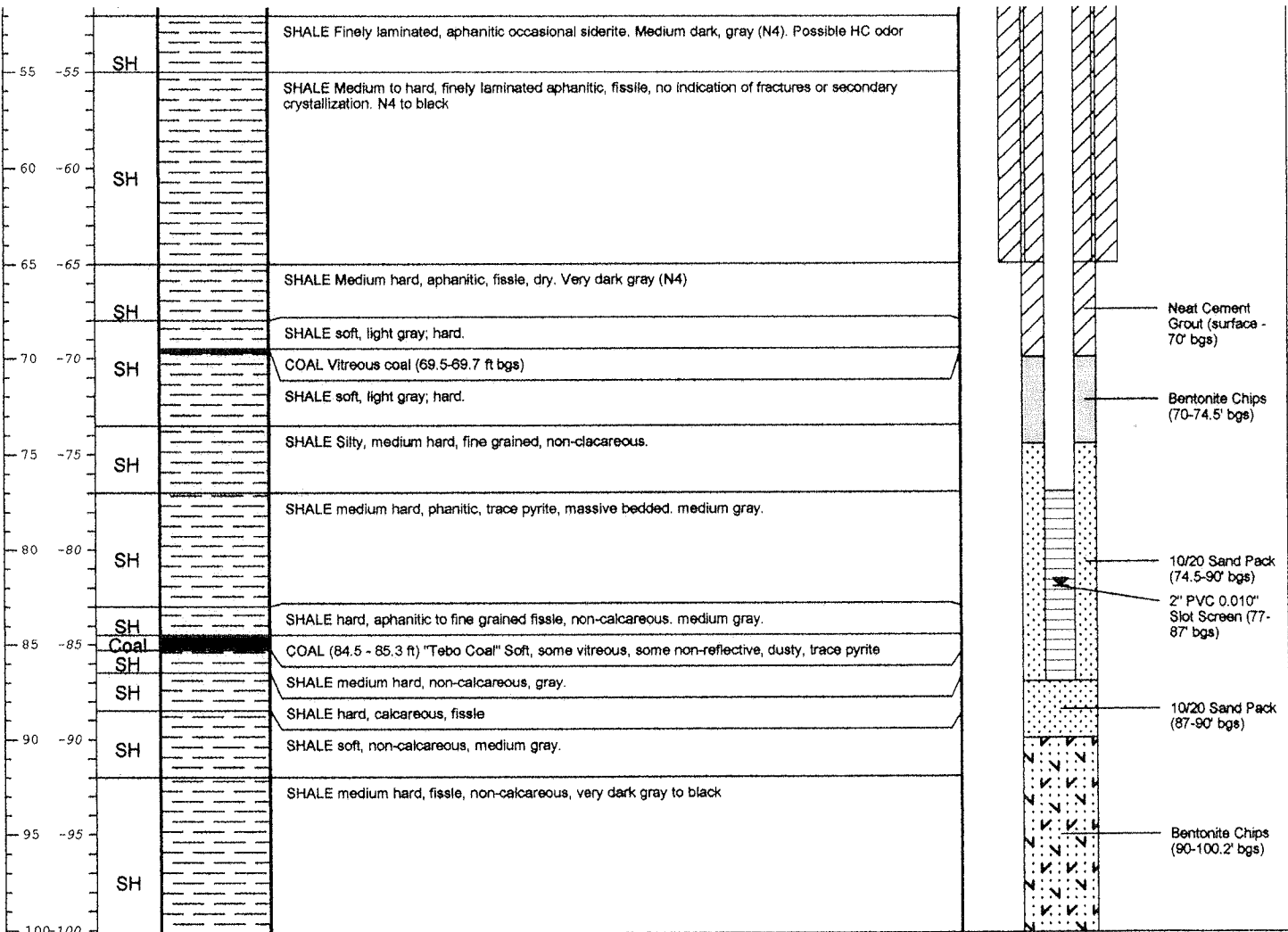
DEPTH	ELEVATION	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
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	Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.
	CL = Clay SH = Shale CS = Claystone LM = Limestone SS = Sandstone

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<p>ARCADIS Infrastructure, environment, buildings</p>	Remarks: ags = above ground surface; bgs = below ground surface; NA = Not Applicable/Available; AMSL = Above Mean Sea Level.
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