

WATER WELL RECORD

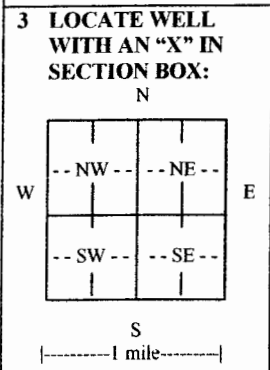
Form WWC-5

Division of Water Resources App. No.

MW-38B

1 LOCATION OF WATER WELL: County: Johnson	Fraction SW ¼ SW ¼ NE ¼ ¼	Section Number 36	Township No. T 13 S	Range Number R 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here <input type="checkbox"/> 3992 S Ocheltree St Olathe, KS 66061		Global Positioning System (GPS) information: Latitude: 38.87761768 (in decimal degrees) Longitude: -94.8071059 (in decimal degrees) Elevation: Datum: <input checked="" type="checkbox"/> WGS 84 , <input type="checkbox"/> NAD 83 , <input type="checkbox"/> NAD 27 Collection Method: <input checked="" type="checkbox"/> GPS unit (Make/Model:) <input type="checkbox"/> Digital Map/Photo , <input type="checkbox"/> Topographic Map , <input type="checkbox"/> Land Survey Est. Accuracy: <input type="checkbox"/> <3 m , <input type="checkbox"/> 3-5 m , <input type="checkbox"/> 5-15 m , <input type="checkbox"/> >15 m		

2 WATER WELL OWNER: The Boeing Company RR#, Street Address, Box #: 5800 Wooslev Canvon RD MS T487 City, State, ZIP Code : Canoga Park, CA 91304



4 DEPTH OF COMPLETED WELL **20.5**..... ft.

Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.

WELL'S STATIC WATER LEVEL **3.22**.....ft. below land surface measured on mo/day/yr.....

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 **20.5**.....ft., andin. toft.

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: **Steel** **PVC** **Other**

CASING JOINTS: **Glued** **Clamped** **Welded** **Threaded**

Casing diameter **4**..... in. to **15.5**..... ft., Diameter in. to ft., Diameter in. to ft.

Casing height above land surface **4**..... in., Weightlbs./ft., Wall thickness or gauge No.

TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel **Stainless Steel** **PVC** **Other (Specify)**
 Brass **Galvanized Steel** **None used (open hole)**

SCREEN OR PERFORATION OPENINGS ARE:
 Continuous slot **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 **20.5**..... ft. to **15.5**..... ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From **20.5**..... ft. to **14**..... ft., From ft. to ft.
 From **2**..... ft. to **0**..... ft., From ft. to ft.

6 GROUT MATERIAL: **Neat cement** **Cement grout** **Bentonite** **Other**

Grout Intervals: From **14**..... ft. to **2**..... 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

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	1/2	asphalt			
1/2	15	silty clay, varicolored			
15	20	limestone			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was **constructed**, **reconstructed**, or **plugged** under my jurisdiction and was completed on (mo/day/year) **10/13/09**..... and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **811**..... This Water Well Record was completed on (mo/day/year) **11-3-09**..... under the business name of **WDC Exploration and Wells**..... by (signature) *Mark A. [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 785-296-5522. 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>



MWH

Drilling Log

Monitoring Well MW-38B

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Project Chemical Commodities, Inc. Site Owner The Boeing Company
 Location Olathe, KS Project Number 1007630.0201
 Surface Elev. NA North NA East NA
 Top of Casing NA Water Level Initial NA Static 3.22
 Hole Depth 20.5 ft Screen: Diameter 4 in Length 5.0 ft Type/Size Sch. 40 PVC/0.010 slot
 Hole Diameter 8.0 in Casing: Diameter 4 in Length 15.0 ft Type Sch. 40 PVC
 Drill Co. WDC Exploration and Wells Drilling Method Rotasonic Sand Pack 12/20 Silica Sand
 Driller Ross Kight Driller Reg. # KS License 811 Log By Tim Wineland
 Start Date 10/13/2009 Completion Date 10/13/2009 Checked By Kevin Armstrong

COMMENTS
 5-7/8" sonic boring with 8" overshot casing.
 MW038B_SSWCOSTR_1501
 Composite sample collected over length of overburden (0-14.5' bgs).

Bentonite Grout
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

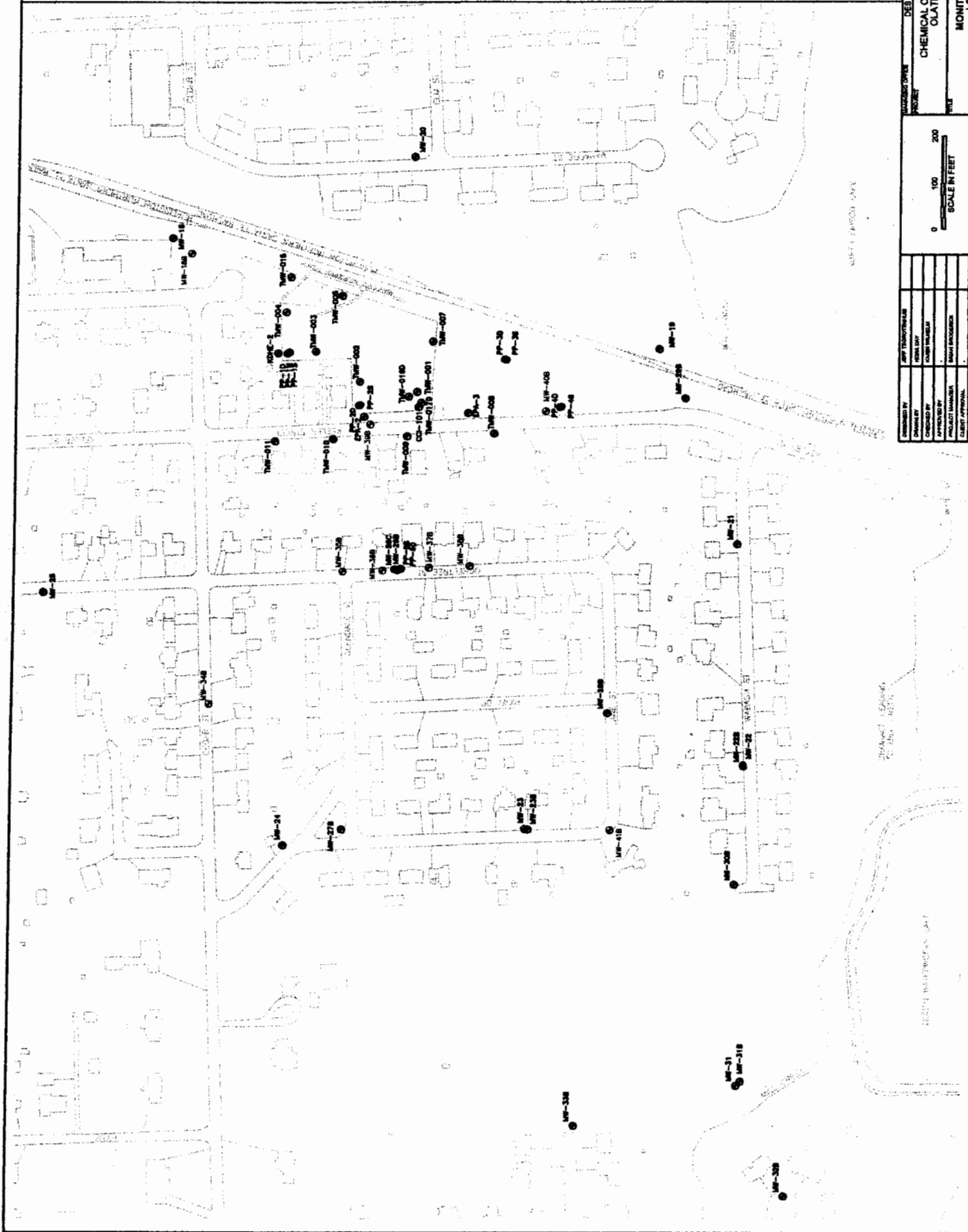
Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	0.0	100%				Asphalt.	
		100%			CH	FILL, carbonate gravel.	
	0.0	100%			CH	Silty CLAY, black (10YR2/1), moist, stiff, high plasticity, no odor/no visual impacts.	
		100%			CH	Silty CLAY, yellowish brown (10YR6/4), moist, medium stiff, high plasticity, no odor/no visual impacts, some concretions of iron/manganese.	
5	0.0	100%			CH	Silty CLAY, yellowish brown (10YR6/4), moist to wet (possibly from injection water while cutting asphalt, medium stiff, high plasticity, no odor/no visual impacts, some concretions of iron/manganese.	
	0.9	100%			CH	Silty CLAY, predominantly yellowish brown (10YR5/4), but occasionally colors from black (10YR2/1) to gray (10YR6/1), moist, stiff, high plasticity, no odor/no visual impacts.	
10	9.4	100%					
	51.0	100%					
15	34.4	100%			CH	Silty CLAY, predominantly yellowish brown (10YR5/4), but occasionally colors from black (10YR2/1) to gray (10YR6/1) with carbonate gravel/fractured bedrock (strong HCl reaction), moist, stiff, high plasticity, no odor/no visual impacts. South Bend Limestone.	
	59.5	100%				LIMESTONE, carbonate bedrock (strong HCl reaction), grayish brown (10YR5/2), thinly bedded, medium crystalline, very mechanically fractured/pulverized, no odor/no visual impacts (broken pulverized material is 10YR5/3). South Bend Limestone.	
20						End of boring = 20.5'.	
25							

Drilling Log CCH-LOGS.GPJ MWH IA.GDT 10/30/09

LEGEND:

- MONITORING WELL
- SURFACE WATER GAUGING STATION
- PNEUMETER
- FENCE LINE
- PROPERTY BOUNDARY

NOTE:
LOCATIONS OF WELLS INSTALLED
IN OCTOBER 2009 ARE SHOWN IN RED.



DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
PROJECT	PROJECT	PROJECT	PROJECT
DATE	DATE	DATE	DATE
SCALE IN FEET	SCALE IN FEET	SCALE IN FEET	SCALE IN FEET
0	100	200	
SCALE IN FEET			
APPROVED BY	APPROVED BY	APPROVED BY	APPROVED BY
PROJECT MANAGER	PROJECT MANAGER	PROJECT MANAGER	PROJECT MANAGER
CHECK APPROVAL	CHECK APPROVAL	CHECK APPROVAL	CHECK APPROVAL
CLIENT REFERENCE NO.	CLIENT REFERENCE NO.	CLIENT REFERENCE NO.	CLIENT REFERENCE NO.

MWH

DESIGNER
 CHEMICAL COMMODITIES, INC.
 OLAATHE, KANSAS

MONITORING WELL
 LOCATIONS