

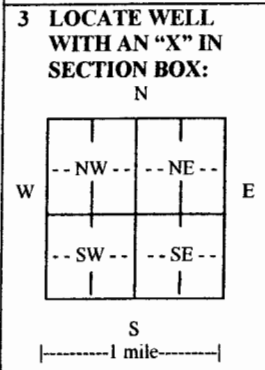
WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

MW-34B

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"/> 794 block of E Cedar St Olathe, KS 66061		Global Positioning System (GPS) information: Latitude: 38.87910146 (in decimal degrees) Longitude: -94.80805 (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 Canyon RD MS T487 City, State, ZIP Code : Canoqa Park, CA 91304				



4 DEPTH OF COMPLETED WELL 15 ft.

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

WELL'S STATIC WATER LEVEL 4.12 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 16 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 10 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 15 ft. to 5 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From 16 ft. to 9 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 9 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	asphalt/gravel			
1	10	silty clay, varicolored			
10	16	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) 10/07/09 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) *Michael J. ...*

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 \$500 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>.



MWH

Drilling Log

Monitoring Well

MW-34B

Page: 1 of 1

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 4.12
 Hole Depth 16.0 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 10.0 ft Type Sch. 40 PVC
 Drill Co. WDC Exploration and Wells Drilling Method Rotosonic Sand Pack 12/20 Silica Sand
 Driller Ross Kight Driller Reg. # KS License 811 Log By Tim Wineland
 Start Date 10/7/2009 Completion Date 10/7/2009 Checked By Kevin Armstrong

COMMENTS
 5-7/8" sonic boring with 8" overshot casing

Bentonite Grout
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

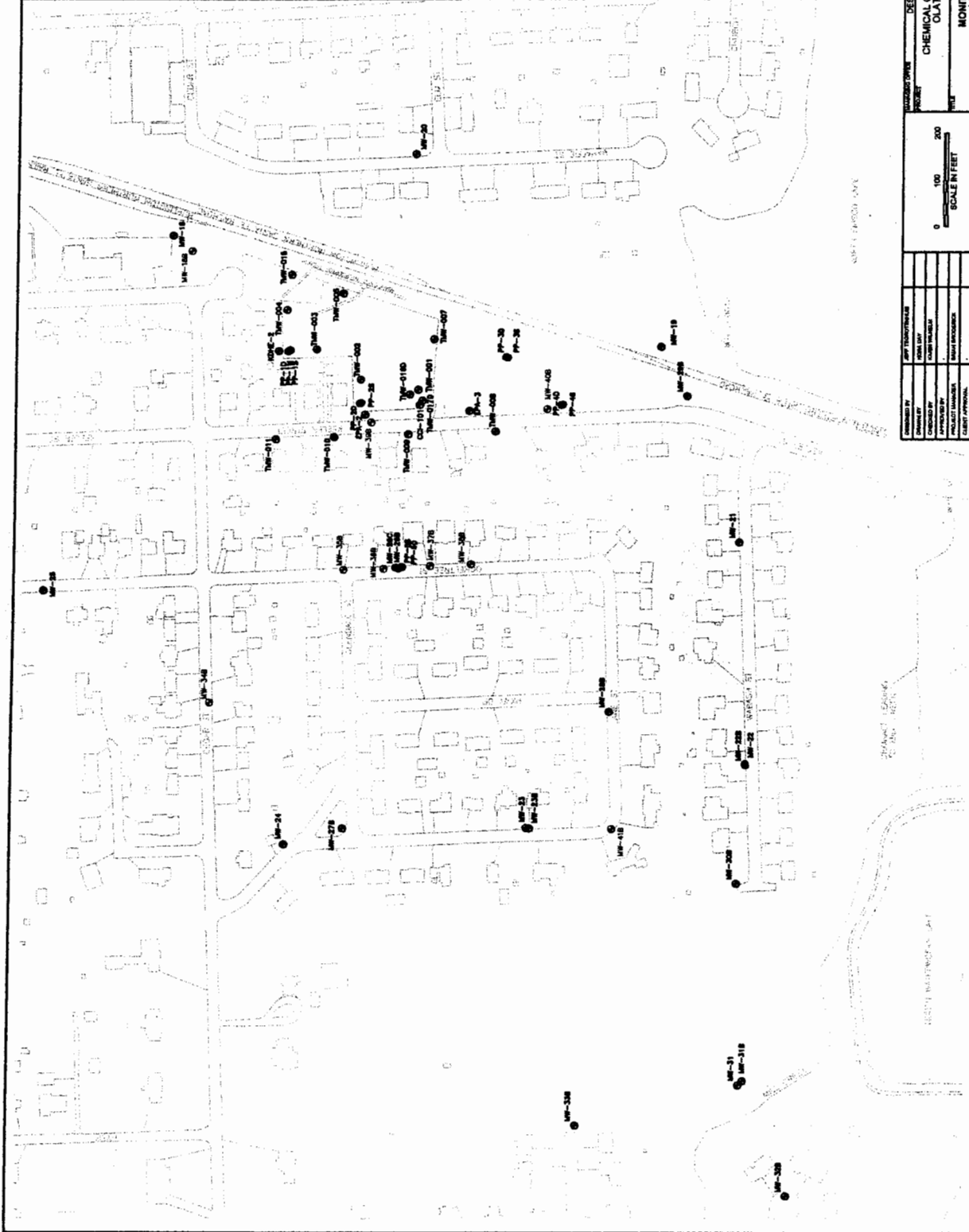
Depth (ft)	PIID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	0.0	100%			CH	Asphalt.	
0.0		100%			CH	Silty CLAY, very dark brown (10YR2/2), medium stiff, moist, high plasticity, no odor/no visual impacts.	
5	0.0	100%			CH	Silty CLAY, dark grayish brown (10YR4/2) with mottling (10YR6/4), medium stiff, moist, high plasticity, no odor/no visual impacts.	
0.1		100%			CH	Silty CLAY, dark yellowish brown (10YR4/6), medium stiff, moist, high plasticity, no odor/no visual impacts.	
10	0.1	100%			CH	CLAY, yellowish brown (10YR5/6), stiff, moist, high plasticity, no odor/no visual impacts.	
0.1		100%			CH	Silty CLAY w/trace (10%) gravel, very dark grayish brown (10YR3/2), carbonate gravels (strong HCl reaction), stiff, moist, high plasticity, trace odor/no visual impacts.	
15	0.1	100%				LIMESTONE, carbonate bedrock (strong HCl reaction), dark gray (10YR4/1), hard, coarsely crystalline, thinly bedded with interbedded silty clays (10YR6/3). Modified Core Recovery=0/60", indications of drilling induced mechanical breakage. Stoner Limestone.	
						LIMESTONE, carbonate bedrock (strong HCl reaction), light brownish gray (10YR6/1), hard, coarsely crystalline, thinly bedded with interbedded silty clays (10YR6/3). Stoner Limestone.	
						End of boring = 15'.	

Drilling Log CCHLOGS.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 2008 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
DATE	DATE	DATE	DATE
PROJECT NUMBER	PROJECT NUMBER	PROJECT NUMBER	PROJECT NUMBER
CLIENT APPROVAL	CLIENT APPROVAL	CLIENT APPROVAL	CLIENT APPROVAL
CLIENT REFERENCE NO.	CLIENT REFERENCE NO.	CLIENT REFERENCE NO.	CLIENT REFERENCE NO.

DESIGNED BY: DES MOINES, IOWA

PROJECT: CHEMICAL COMMODITIES, INC. OLAATHE, KANSAS

DATE: 10/2008

SCALE IN FEET: 1" = 100'

APPROVED BY: [Signature]

PROJECT NUMBER: [Number]

CLIENT APPROVAL: [Signature]

CLIENT REFERENCE NO.: [Number]

MWH

MONITORING WELL LOCATIONS