

Mailing Address: Box 1410
City: Paducah State: KY Zip: 42001
Phone: (502) 441-6000 () No Phone

(3) WELL RECORD LABEL LOCATION:
() well casing () other

(4) WELL LOCATION:
USGS Quadrangle Name: Heath
County: Mc Cracken
Elevation: 376.64 ft. () map () altimeter () other survey
Latitude: 37 06 47 Longitude: 88 48 42
Physiographic or Hydrologic Region:
() Blue Grass () Ohio River Alluvium () E. Coal Field
() Miss. Plateau () Jackson Purchase () W. Coal Field

(7) WELL USE:
() domestic () public () irrigation
() industrial () livestock () monitoring
() unused () other
PWSID #:
Water Withdrawal Permit #:

(10) TYPE OF TREATMENT SYSTEM:
() none
() water softener
() ultra violet
() chlorination
() aeration
() charcoal filter
() sand filter
() iron inhibitor
() other
Is a treatment bypass available? () yes () no
Describe water quality problem requiring treatment:

(5) WELL CHARACTERISTICS:
Is this a hand dug well? () yes () no () unknown
Who constructed well? C.D.M. () unknown
Address:
City: State: Zip:

(8) WELL SERVICE:
Number of people served: NA
Number of service connections:
Any quantity problems? () yes () no
Any quality problems? () yes () no
Describe:

Date well was completed: 92 () unknown
Total depth: 42.7 ft. () measured () reported () unknown
Does the casing extend above the ground? () yes. 24 in. () no
Casing Type(s) Inside Diameter (in) Feet Below Surface To Casing Wall Thickness

(9) COMPLIANCE TO STANDARDS:
Is this well in compliance with state water well construction standards? () yes () no () unknown
If no, describe deficiencies:

Casing Type(s)	Inside Diameter (in)	From	To	Casing Wall Thickness
1. <u>PVC</u>	<u>2"</u>	<u>-2</u>	<u>33.3</u>	
2. <u>PVC .01" screen</u>	<u>2"</u>	<u>33.3</u>	<u>43.3</u>	
3.				
4.				

Is the well located in a pit? () yes () no () unknown
Is the water discharge pipe below ground surface? () yes () no () unknown
Is a pitless adapter used? () yes () no () unknown
Well yield: () gpm () gph () gpd () measured () estimated () unknown
Surface annular material: () clay () sand () cement () drill cuttings () gravel () open annulus () other

(11) INSPECTION INFORMATION:
Date of Inspection: 9 22 92 Check one: () original inspection () re-inspection
Was a water quality sample taken as part of this inspection? () yes () no
Reason for inspection (check all that are applicable):
() general water quality analysis requested
() specific complaint investigation
() general survey
() ambient groundwater monitoring
() other
Permit/Program Name:
Other ID #: MW 212
Well Inventory #:

Well head (casing top): () well cap () sanitary seal () open () other
Pump type: () jet () submersible () hand pump () turbine () none () bailer/bucket () other
Level of pump intake: ft. () unknown
Age of pump: yrs. () unknown
Electric connection for pump: () 2 wire, 110V () 3 wire, 220V () unknown
Static water level: ft. below surface () measured () reported
If unknown: () can't be measured () not measured
Does the owner have any log or record concerning this well? () yes () no If yes, specify: drill log

(12) OPTIONAL USE:
Will well owner allow state monitoring? () yes () no () unknown
Extent of monitoring allowed: () collect sample () measure static water level () pump well () remove well cap () other
Monitoring feasibility:

(6) SKETCH MAP:
South of - C-400 bld.
between R.R. trax.

(13) COMMENTS:
U.S.T. well

(14) INSPECTOR IDENTIFICATION:
Name: Bell Jarrod C 3031
Last First MI Inspector ID #
Agency: () CHR () DOW () DWM () KGS () SOAP () Other
Signature of Inspector: Jarrod C Bell
Date: 9 22 92 Number of Attached pages:

CDM FEDERAL PROGRAMS CORPORATION

BORING NUMBER **MW-212**

SHEET 1 OF 3

PROJECT **Paducah UST Investigation**

LOCATION **PGDP Paducah, Kentucky**

COORDINATES **S 2,040.1 W 4,171.2**

GENERAL ORDER NO. **18B-9905 2 C**

BRASS MARKER ELEV. **376.64** DATUM **MSL**

LOGGED BY **J. Thornburg**

SAMPLE INFORMATION

DEPTH (ft)	LAB SAMPLE	SAMPLE TYPE	Recovery %	Beta/Gamma (cpm)	OVA/HNu (ppm)	STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION (ft)
		SPT 1	100	Bkgd	Bkgd		Stiff light olive brown (2.5Y 5/4) SILT (MH) with trace rounded gravel and roots. Moist.	Cement/bentonite grout mixture	376
		SPT 2	100	Bkgd	Bkgd		Top 6" same as above. Very stiff.		
		SPT 3	100	Bkgd	Bkgd		Light grey (10YR 5/6) silty CLAY (CH) with yellowish brown (10YR 5/6) mottling. Moist.		
5		SPT 4	100	Bkgd	Bkgd		Same as above.		
		SPT 5	95	20	Bkgd		Very stiff light grey (10YR 7/2) Silt (MH) with trace fine rounded sand and yellowish brown (10YR 5/6) mottling. Moist.		
		SPT 6	100	20	Bkgd		Same as above		
10		SPT 7	100	Bkgd	Bkgd		Stiff light grey (7.5YR 7/1) clayey SILT (MH) with trace fine rounded sand. Moist.		
		SPT 8	100	Bkgd	Bkgd		Stiff yellowish brown (10YR 5/8) silty CLAY (CH) with trace rounded sand. Moist.		
15		SPT 9	100	Bkgd	Bkgd		Very stiff. Same as above.		
		SPT 10	100	Bkgd	Bkgd		Hard light grey (10YR 7/2) silty CLAY (CH) with trace fine rounded sand and gravel. Moist.		Sch. 40 flush threaded 2" PVC pipe
							Brownish yellow (10YR 6/8) fine to coarse rounded clayey SAND (SC). Moist.		
							Top 3" yellowish brown (10YR 5/4) silty CLAY (CH) with trace fine rounded sand. Moist.		360
							Yellowish brown (10YR 5/4) clayey fine to medium SAND (SC) with trace fine angular to rounded gravel. Moist.		
							Gray silty CLAY (CH) with trace fine rounded sand. Moist.		

DRILLING CONTRACTOR **Mideastern Geotech**
 DRILLING METHOD **Hollow Stem Auger**
 DRILLING EQUIPMENT **CME-55**
 DRILLING STARTED **ENDED**

REMARKS **Single-cased monitoring well. Lithologic description obtained from offset boring located within 10 feet of monitoring well boring. OVA/HNu and Beta/Gamma readings are above background. Alpha readings are less than 1cpm.**



CDM FEDERAL PROGRAMS CORPORATION

COORDINATES S 2,040.1 W 4,171.2

BRASS MARKER ELEV. 376.64 DATUM MSL

BORING NUMBER **MW-212**

SHEET 2 OF 3

PROJECT **Paducah UST Investigation**

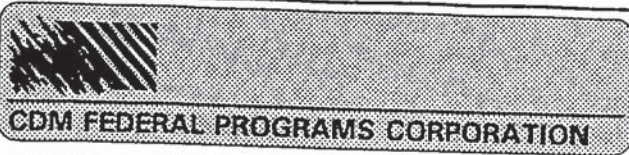
LOCATION **PGDP Paducah, Kentucky**

GENERAL ORDER NO. **18B-9905 2 C**

LOGGED BY **J. Thornburg**

SAMPLE INFORMATION

DEPTH (ft)	LAB SAMPLE	SAMPLE TYPE	Recovery %	Beta/Gamma (cpm)	OVA/HNu (ppm)	STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION (ft)
		SPT 11	100	Bkgd	Bkgd		Very stiff. Same as above.		
		SPT 12	75	Bkgd	Bkgd		Very stiff brownish yellow (10YR 6/6) silty CLAY (CH) with little fine rounded sand. Moist.		355
		SPT 13	100	Bkgd	Bkgd		Brownish yellow (10YR 6/6) SILT (MH) with some fine to medium rounded sand and little clay. Moist.		
25		SPT 14	100	Bkgd	Bkgd		Top 4" hard dark yellowish brown (10YR 4/6) silty CLAY (CH) with trace fine rounded sand. Moist.		
		SPT 15	70	Bkgd	Bkgd		Strong brown (7.5YR 5/8) angular to rounded GRAVEL (GC) with some fine to coarse rounded sand and little clay. Moist.		
		SPT 16	80	20	Bkgd		Very stiff brownish yellow, light gray and red (10YR 6/6, 10YR 7/1 and 2.5YR 4/8) SILT (MH) with some fine rounded sand and trace clay. Moist.	Top of bentonite seal	360
30		SPT 17	75	Bkgd	Bkgd		Top 12" same as above.		
		SPT 18	100	Bkgd	Bkgd		Very dense yellow (10YR 7/6) silty fine to medium rounded Sand (SM) with some fine gravel. Moist.	Top of sand pack	
		SPT 19	90	Bkgd	Bkgd		Hard yellowish brown (10YR 5/8) fine to coarse rounded SAND (SC) with some angular to rounded gravel and little clay. Moist.		345
		SPT 20	100	Bkgd	Bkgd		Hard reddish yellow (7.5YR 6/8) fine to medium rounded SAND (SP). Moist.	Top of screen	
35		SPT 21	100	Bkgd	Bkgd		Same as above but fine to coarse subrounded SAND (SM) with some fine to medium angular to rounded gravel with little silt and clay. Moist.		
		SPT 22	100	Bkgd	Bkgd		Very stiff to hard light gray (7.5YR 7/0) fine to coarse subrounded to rounded SAND and CLAY (SC) with some rounded gravel. Moist.	Continuous wire-wrapped PVC 0.010" slotted screen	340
40							Top 10" very dense pinkish gray (7.5YR 6/2) fine rounded SAND (SM) with little silt. Moist.		
							Next 2" light brownish gray (10YR 6/2) medium to coarse subangular to rounded SAND (SC) with trace clay. Wet.		
							Next 9" brownish yellow (10YR 6/8) fine to coarse rounded SAND (SC) with some fine to medium gravel and clay. Moist.		
							Dense brownish yellow (10YR 8/8) silty very fine rounded SAND (SW). Moist.		
							Same as above with trace clay.		
							Top 6" very pale brown (10YR 7/4) fine to medium rounded SAND (SC)	Monitoring well boring drilled to 43.3 feet	335



BORING NUMBER **MW-212** SHEET **3** OF **3**
 PROJECT **Paducah UST Investigation**
 LOCATION **PGDP Paducah, Kentucky**
 GENERAL ORDER NO. **18B-9905 2 C**
 LOGGED BY **J. Thornburg**

COORDINATES **S 2,040.1 W 4,171.2**
 BRASS MARKER ELEV. **376.64** DATUM **MSL**

SAMPLE INFORMATION							STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION (ft)
DEPTH (ft)	LAB SAMPLE	SAMPLE TYPE	Recovery %	Beta/Gamma (cpm)	OVA/HNu (ppm)					
45 50 55		SPT 23	100	Bkgd	Bkgd	[Hatched Pattern]	with trace silt and clay. Moist. Very pale brown (10YR 7/4) silty CLAY (CH). Moist.	[Dotted Pattern]		330
		SPT 24	100	Bkgd	Bkgd		Stiff yellowish brown (10YR 5/6) CLAY (CH) with trace fine sand. Moist.			
		SPT 25	100	Bkgd	Bkgd		Same as above. Wet.			
		SPT 26	100	Bkgd	Bkgd		Same as above.			
		SPT 27	100	Bkgd	Bkgd		Same as above with trace fine angular gravel. Moist.			
		SPT 28	100	Bkgd	Bkgd		Same as above.			

