

Facility Name PGDP
Mailing Address 5100 Hobbs Rd
City Paducah
State Kentucky Zip 42001

Facility Address Same
City _____
State _____ Zip _____
Owner's Phone () _____

Date Received: **NOV 15 2002**
(3) IDENTIFICATION NUMBER
8004-3863

(4) WELL LOCATION: USGS Quadrangle Name HEATH County McCracken Latitude N 37 06 50.5 Longitude W 88 48 39

(5) GENERAL WELL CONSTRUCTION:
Start Date: 8-08-02
Finish Date: 8-13-02
Drilling Method:
 Auger HS () Reverse Rotary () Push/probe
() Auger SS () Cable Tool () Excavation
() Air Rotary () Hand Auger () Sonic
() Mud Rotary () Other: _____
Work Type:
 New Well () Nested Well () Rework () Plug
Surface Elevation: 380 Total Depth: 110'
Depth to Bedrock: N/A Static Water Level: 52' JB
Wellhead:
 Flush Mount () Locking Cap () No Cap
() Stickup; inches above surface: _____

(6) FACILITY TYPE:
 RCRA () Mining
() CERCLA () Site Assessment
() TSCA () Solid Waste Landfill
() UST () Landfarm
() Other: _____

(8) PHYSIOGRAPHIC REGION:
() Blue Grass () Ohio River Alluvium
() E. Coal Field () W. Coal Field
() Miss. Plateau Jackson Purchase

(7) WELL USE: (check all that apply)
() Water Quality () Dry Hole
() Ambient Monitoring () Not Used
() Water Level Monitoring () Abandoned
 Remediation () Destroyed
() Other: _____

(9) ATTACHMENTS:
Required
1. Site plan or sketch map
2. Well construction diagram
3. Well location
On topographic map, or
Obtained by GPS unit
Optional
4. Laboratory analysis report ()
5. Other: _____

(10) WELL COMPLETION INFORMATION
Feet Below Surface Borehole Casing
From To Diameter Diameter Casing Type
See Attachment.

Well Screens:
See Attachment
I.D. (in.) From To Type Slot Size
I.D. (in.) From To Type Slot Size
I.D. (in.) From To Type Slot Size

Annulus Fill and Seal:
Feet Below Surface
From To Material
See Attachments
No 1 Fiter Sand
Type II portland
DSI Shur Plug 3/8 Betaite

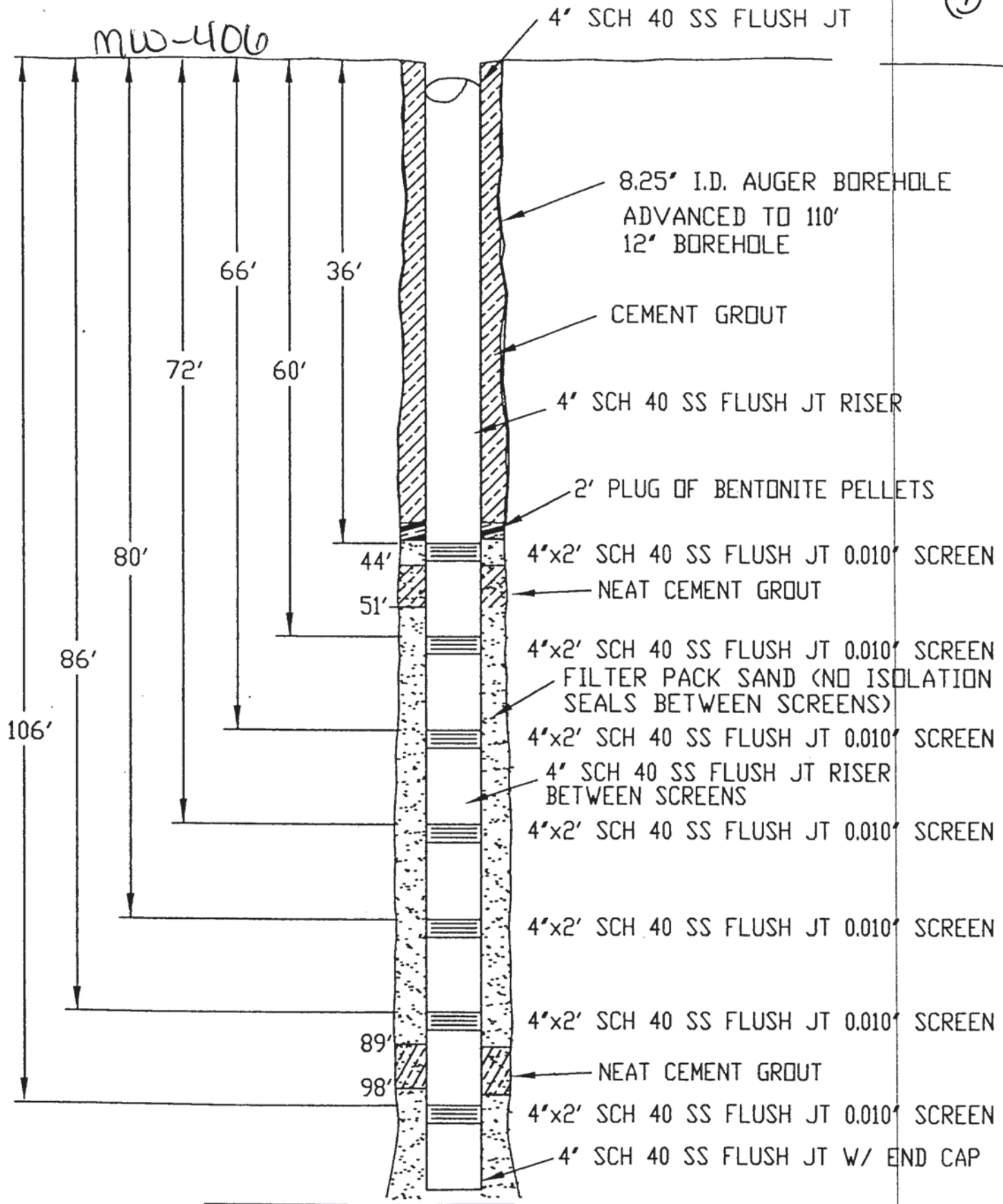
(11) LITHOLOGIC LOG
Feet Below Surface
From To Description
mu-406
See Attachment.

(12) COMMENTS
Drilled to 110 ft. with 8.25 HS Augers (Multiport well) type 316 stainless steel, 110 slot screen Cont. wrap. 110-108 4' stainless riser, 108-106 screen, 106-88 riser, 88-86 screen, 86-82 riser, 82-80 screen, 80-74 riser, 74-72 screen, 72-68 riser, 68-66 screen, 66-62 riser, 62-60 screen, 60-58 riser, 58-56 screen, 56-0 riser

(13) AFFIRMATION: The work described above was done under my supervision, and this report is true and correct to the best of my knowledge.

MW-406

D
C
B
A



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TIME	DEPTH	RECOV.	SAMPLE ID	LITHOLOGY
1345	0-2'	2'	6P06SA002	0-1' Brown/tan clayey GRAVEL
1400	2-4'	1.5'	6P06SA004	1-3' Orange clayey gravel (3" diam)
	4-6'		No Sample	6" Bluish-green CLAY/SILT, moist crumbly, semi-plastic
1410	6-8'	2'	6P06SA008	2.5' - Bluish-gray SILT/CLAY, damp semi-plastic
1420	8-10'	2'	6P06SA010	2' Mixture bluish-gray + yellowish-brn SILT/CLAY, damp, semi-plastic
1430	10-12'	2'	6P06SA012	Yellowish-brn and gray SILT/CLAY
1445	12-14'	2'	6P06SA014	similar to bottom of 5-10' interval
1505	14-16'	2'	6P06SA016	
1520	16-18'	2'	6P06SA018	Same as 10-15' interval!
1530	18-20'	2'	6P06SA020	
1540	20-22'	2'	6P06SA022	Top 4' yb + gray Sand w/ gravel
1550	22-24'	2'	6P06SA024	fine to med gr., damp, dense
1600	24-26'	2'	6P06SA026	6" Greenish-gray hard CLAY 6" Orange gravelly SAND
1610	26-28'	2'	6P06SA028	Gray + yb sandy SILT/CLAY
1620	28-30'	2'	6P06SA030	mod. dense to dense, damp semi-plastic to plastic
1615			6P06SD030 (dup)	few gravels
1630	30-32'	1.5'	6P06SA032	Top 1.5': Gravel w/ sand tr. silt/clay damp to wet, gravel to 1.5" dia.
1640	32-34'	1.5'	6P06SA034	Bottom 1.5': Sand, well-sorted, fine-gr., loose, subang to subround
1650	34-36'	1.5'	6P06SA036	
1700	36-38'	1.5'	6P06SA038	GRAVEL, extremely dense, compacted, angular chert up to 1.5", some clay/silt, wet.
	38-40'		No Sample - Poor Recovery	
0800	40-42'		6P06SA042	Sand + Gravel - 3 ft recovery angular
	42-44'		No Sample →	
0810	44-46'	1'	6P06SA046	Gray sandy CLAY, non-plastic to semi-plastic
0820	46-48'	2'	6P06SA048	Mixture orange + gray clayey SAND + SAND w/ clay, semiplastic, saturated.
0830	48-50'	2'	6P06SA050	
0845	50-52'	2'	6P06SA052	Mixture orange + gray sandy CLAY clayey SAND, fine-gr., well-sorted non-plastic, saturated.
0900	52-54'	2'	6P06SA054	
0915	54-56'	1.5'	6P06SA056	SAND, orange, fine-gr. well sorted, saturated
0900			6P06WT24	Trip Blank
0730			6P06WT25	Trip Blank
0750			6P06WR08	Equip. Rinsate (CME Core Sampler 50-55')

Odor

Slight odor

Odor moderate

Some odor during drilling

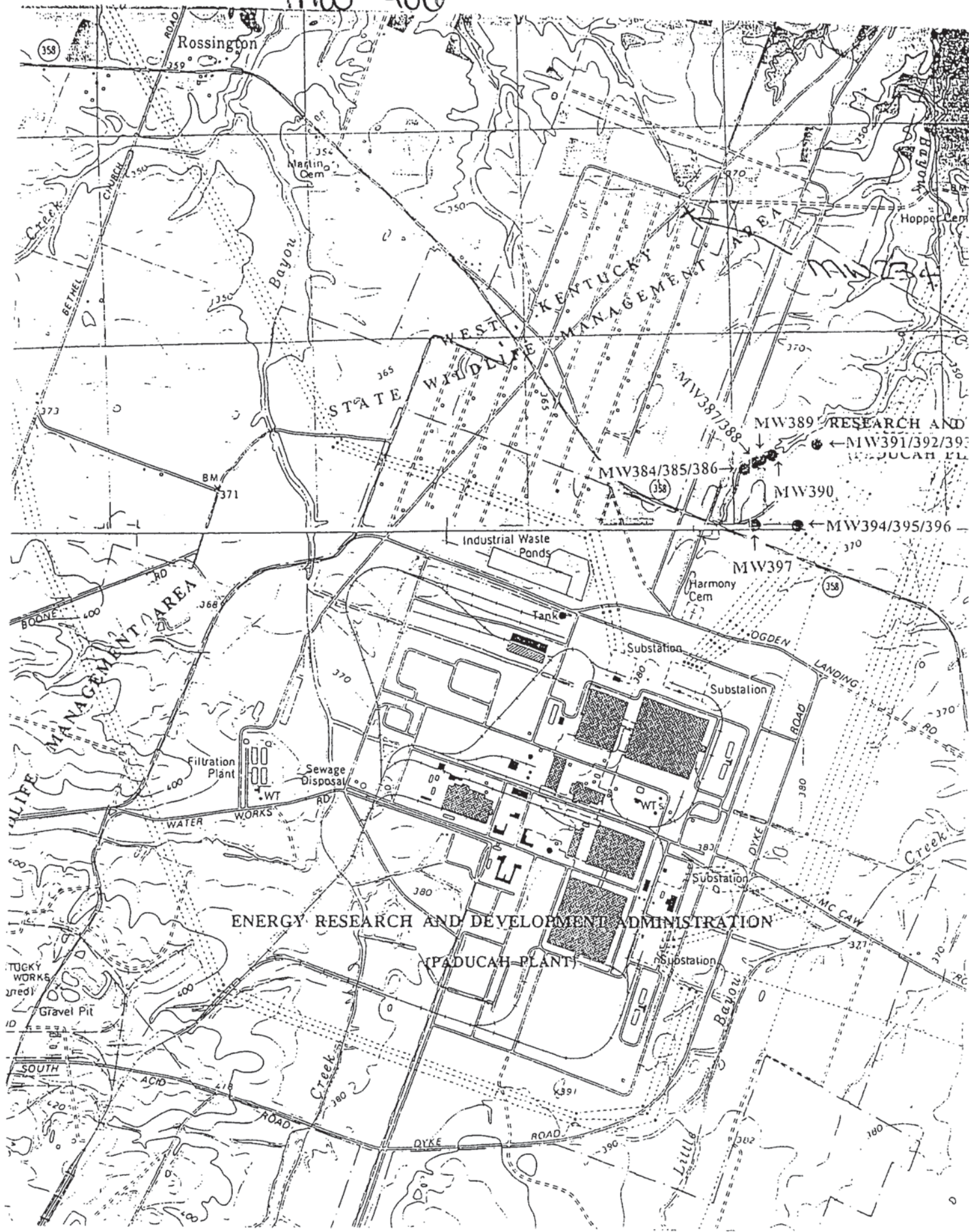
Odor during drilling, slight during sample collection.

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Time	Depth	Lithology	Sample ID
1430	58-60'	<u>Sand & Gravel</u> , bottom well-sorted sand ang to subangular, gravel to 1" dia.	MW40BSA058
1445	68-70'	Coarse <u>SAND/GRAVEL</u> , ang to subrounded to 4" dia. avg 1-2" dia. Sand med. to v. coarse	MW40BSA068
—	78-80'	No Sample	No Recovery (75-80')
—	88-90'	No Sample	No Recovery (85-90')
1715	98-100'	Top 8": Lt gray sandy <u>CLAY</u> , semi-plastic, wet to saturated, soft Moderately dense <u>SAND</u> w/ tr. clay, orange, reddish-brn, & gray, laminar band, few sm. gravels, fine-gr. sand, well-sorted	MW40BSA 100 (95-100') Top clay = 28 ppm Middle/Lower Section = 9 ppm
—	100-105'	Tan, fine-grained <u>SAND</u> , well-sorted, saturated [0.0 ppm]	No Sample Required!
1240	Trip Blank	NA	MW40BTW001

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MW389
 ← MW391/392/393
 JUCAH PL
 MW384/385/386
 (358)
 MW390
 ← MW394/395/396

MW397
 (358)

ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
 (PADUCAH PLANT)

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