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INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies 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 to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

MONITORING WELL CONSTRUCTION

Project:	Koch - DeSoto, Kansas	Well Number:	UG-2
Location:	Sunflower Army Ammunition Plant, South Acid Area	Site Location:	South Side of Former Koch Facility South Acid Area
Client:	Koch Industries	Installation Date:	4/22/04
Subcontractor:	Pratt Well Drilling	Northing:	
Driller:	Mac McCaskey	Easting:	
Shaw Field Representative:	Rick Ellis	NAD:	NGVD:

Protective Cover Elevation (ft):

Top of Casing Elv. (ft):

Top of Casing Stickup (ft):

Land Surface Elv. (ft):

Approximate Diameter of Borehole (in):

Well Casing Diameter (in):

Depth to Water (ft):

During Drilling:

Date:

Post Development:

Date:

Top of Bentonite Seal (ft):

Top of Filler Pack (ft):

Top of Screen Interval (ft):

Bottom of Screen Interval (ft):

Bottom of Well (ft):

Bottom of Filler Pack (ft):

Bottom of Borehole (ft):

Protective Casing:

Type:

Dimensions (in):

Length (ft):

Guard Post:

Ground Seal (Surface Pad):

Dimensions:

Type:

Annular Space Seal:

Type:

Installation:

Bentonite Seal:

Manufacturer:

Type:

Installation:

Hydration time (hrs):

Filler Pack Material:

Manufacturer:

Product Name:

Size:

Volume Added (ft³):

Installation:

Well Casing:

Manufacturer:

Type:

Diameter (in):

Well Screening Casing:

Manufacturer:

Type:

Slot Size (in):

Slot Type:

Sump/End Cap

Backfill Material:



NOT TO SCALE



SHAW Environmental, Inc.

BORING LOGS

PROJECT NUMBER:	103353	PROJECT NAME:	KOCH INDUSTRIES DeSoto, Kansas	
BORING NUMBER:	UG-2	COORDINATES:	DATE:	4/22/04
ELEVATION:		GWL: Depth 16.75 ft BTOC	Date 5/11/04	DATE STARTED: 4/22/04
ENGINEER/GEOLOGIST:	Rick Ellis	Depth	Date	DATE COMPLETED: 4/22/04
DRILLING METHODS:	Air Hammer w/ 6 1/2" Bit			PAGE: 1 OF 2

DEPTH (FT)	LITHOLOGIC DESCRIPTION	REMARKS
0	Topsoil w/ grass @ surface, dark brown	Cutting described every 5 ft
1		
2		
3		
4		
5	Very dark brown clay, plastic, moist	5ft @ 08:02
6		
7		
8		
9		
10	Silty clay, brown, plastic, moist	10ft @ 08:05
11		
12		
13	Limestone bedrock first encountered @ approx. 13ft. BC.	PID in breathing zone = 0.0ppm
14		
15	Alternating rock and weathered zones	
16		
17		
18		
19		
20	Dark grayish brown silty clay, (weathered shale), moist to wet	Water table @ ~ 20 ft below grade
21		
22	Black shale/coal seam approx. 2ft thick	
23		
24		
25	Limestone, gray to light gray, hard, unweathered, dry	

Drilling Contractor: Pratt Well ServiceDrilling Equipment: Failing SD300 w/ airDriller: Mac McCaskey



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			PAGE:	2 OF 2

DEPTH (FT)	LITHOLOGIC DESCRIPTION	REMARKS
25 — 26 — 27 — 28 — 29 — 30 — 31 — 32 — 33 —	Limestone, gray to light gray, hard, unweathered, dry Shale, dark gray TD = 33ft	 30ft @ 8:28 33ft @ 8:34

Drilling Contractor: Pratt Well ServiceDrilling Equipment: Falling SD300 w/airDriller: Mac McCaskey