w. W.	ATER WELL REC	ORD Form WW0	C-5 KSA 82	a-1212	ID No	161		
1 LOCATION OF WATER WELL: County:	Fraction 1/4		. 8	ection Num		vnship Number		ange Number
Distance and direction from nearest to	wn or city street a	ddress of well if loca	ated within city?		. / 1	13 s	H	22 ON
WATER WELL OWNER:	annu	ution Els	nt so	while	est of 1	e Soto		
RR#, St. Address, Box # : 4///	E, 373	STreet N	OFTL					Water Resources
City, State, ZIP Code : Wic	Lity KS	67220	2.9	Ø ft FII		plication Numbe		
AN "X" IN SECTION BOX:	Depth(s) Ground	dwater Encountered WATER LEVEL.2	_ 1		ft. 2	f	ft. 3	ft.
	Pum	np test data: Well v	vater was		. ft. after	hour	rs pumpina	apm
NWNE	Est. Yield WELL WATER 1	gpm; Well w	ater was 5 Public wate		. ft. after 8 Air con	hour	rs pumping 1 Injection we	
W	1 Domestic 2 Irrigation	3 Feedlot 4 Industrial	6 Oil field wat	er supply	9 Dewate	ering 12	2 Other (Spe	
i i			,			0		
SWSE	Was a chemical mitted	/bacteriological sam	ple submitted to	Departmer		lo X; If yes isinfected? Yes		sample was sub-
5 TYPE OF BLANK CASING USED:		5 Wrought iron	8 Conc	rete tile	CAS	ING JOINTS: G	lued	Clamped
1 Steel 3 RMP (Si	R)	6 Asbestos-Cemen	t 9 Othe	r (specify be	elow)	W	/elded	
2 PVC 4 ABS Blank casing diameter		7 Fiberglass				TI	hreaded	<i>y</i> "
Casing height above land surface	32_	in., weight			lbs./ft. Wal	li thickness or qu	uage No.	1 40
TYPE OF SCREEN OR PERFORATION	N MATERIAL:		(1)P	VC		10 Asbestos-C	ement	•
1 Steel 3 Stainless 2 Brass 4 Galvaniz		5 Fiberglass 6 Concrete tile	8 R 9 A	MP (SR) BS		11 Other (Spec 12 None used		•••••••••••
SCREEN OR PERFORATION OPENIN			uazed wrapped		8 Saw o		,	(open hole)
	lill slot, O'b ev punched	6 W	ire wrapped		9 Drilled	d holes		ft.
SCREEN-PERFORATED INTERVALS:		2-2- ft. to	32	ft., Fr	rom	ft.	to	ft
CDAVEL BACK INTERVALO	From	ft. to	77_	ft., Fr	om	ft.	to	ft.
GRAVEL PACK INTERVALS	From	ft. to		π., Fr ft., Fr	om	ft.	to	ft. ft.
6 GROUT MATERIAL: 1 Near	t cement	2 Cement grout	⊘ Bei	ntonite	4 Other			
Grout Intervals: From		ft., From			ft., Fro	······································	ft. to	ft.
What is the nearest source of possible	contamination:				vestock pens		Abandoned	
1 Septic tank 4 Later 2 Sewer lines 5 Cess		7 Pit pri				15		
2 Sewer lines 5 Cess 3 Watertight sewer lines 6 Seep		9 Feedy	ge lagoon /ard		ertilizer storage secticide storag	6/37	Other (spec	ity below)
Direction from well? 999	9- F	0 . 000,			nany feet?	999	r medicae distinct i sans	
FROM TO	LITHOLOGIC I	LOG	FROM	ТО		PLUGGING	INTERVALS	
			0	,5	Ceme	nt pad	L , .	
			20	32	10/20	Sand	Cheps	2
					/			
CONTRACTOR'S OR LANDOWNE	'S CERTIFICATION	ON: This water well	was (1) constr	ucted, (2) re	econstructed, o	or (3) plugged u	ınder my juris	diction and was
ompleted on (mo/day/year)	21/04			and this	record is true t	o the best of my	knowledge ar	nd belief. Kansas
Vater Well Contractor's Licence No	1 10 00	This Wat	er Well Record		eted on (mo/da by (signature)	Vision O	1.1.2.1.0.	7/
INSTRUCTIONS: Use typewriter or ball point pen	. PLEASE PRESS FIRI	MLY and PRINT clearly. Ple	ease fill in blanks, un	derline or circle	the correct answers	Send too three con	ies to Minsas Da	partment of Health
and Environment, Bureau of Water, Geology Sectorecords. Fee of \$5.00 for each constructed well.	ion, 1000 SW Jackson	St., Suite 420, Topeka, Kar	nsas 66612-1367. Te	elephone 785-29	96-5522. Send one	o WATER WELL OW	NER and retain o	ne for your

MONITORING WELL CONSTRUCTION Project: Well Number: Koch - DeSoto, Kansas Location: Sunflower Army Ammunition Plant, South Acid Area Site Location: South Side of South Acid Area Client: Installation Date: Koch Industries 4/21/04 Subcontractor: Pratt Well Drilling Northing: Driller: Easting: Mac McCaskey Shaw Field Representative: Rick Ellis NAD: NGVD: Protective Cover Elevation (ft): Protective Casing: Top of Casing Elv. (ft): Type: Steel 2.67 ft (32") Top of Casing Stickup (ft): Dimensions (in): 4" x 4" Land Surface Elv. (ft): Length (ft): 5ft NA Guard Post: Approximate Diameter Ground Seal (Surface Pad): of Borehole (in): 6 1/2" 2' x 2' Dimensions: _-Concrete Type: Annular Space Seal: Bentonite Holeplug Type: Installation: (Gravity) Tremie Pumped 2 in Well Casing Diameter (in): Bentonite Seal: Baroid / 3/8" Dia. Manufacturer: (Holeplug) Slurry Type: Pellets Installation: 6-in lifts One Section **Gravity** Tremie Pumped Depth to Water (ft): Hydration time (hrs): ∇ During Drilling: None Date: Filler Pack Material: Post Development: 27.86 ft Oglebay-Norton Manufacturer: Date: 5/11/04 Colorado Silica Sand Product Name: 10/20 Size: ~3 (6 Bags) Volume Added (ft3): Top of Bentonite Seal (ft): 15 ft Installation: (Gravity) Tremie Well Casing: Aurora Tile/ Horizon Envir. Manufacturer: Top of Filler Pack (ft): 20 ft Sch. 40 PVC Type: Diameter (in): Well Screening Casing: Aurora Tile/ Horizon Envir. Manufacturer: _ Top of Screen Interval (ft): Sch. 40 PVC Type: 22 ft % Open 0.010 Slot Size (in): Slot Type: Continuous (Factory slot) Bottom of Screen Interval (ft): 32 ft wrap Bottom of Well (ft): 32.2 ft ~3" Sump/ End Cap: Bottom of Filler Pack (ft): Hole Plug 3/8" 34 ft Backfill Material: Bottom of Borehole (ft): 39 ft Hole Plug NOT TO SCALE



BORING LOGS

PROJECT NUMBER:	103353	PROJECT NAME: KOCH IN			IDUSTRIES DeSoto, Kansas		
BORING NUMBER:	UG-1	COORDINATE	ES:			DATE: 4/	/21/04
ELEVATION:		GWL: Depth	27.86 ft BTOC	Date	5/11/04	DATE STARTED:	4/21/04
ENGINEER/GEOLOGIST:	Rick Ellis	Depth		Date		DATE COMPLETED:	: 4/21/04
DRILLING METHODS:		Air Rotary w/	6 1/2" Bi	t		PAGE: 1 OF	2

DEPTH (FT)	LITHOLOGIC DESCRIPTION	REMARKS
1 — — — — — — — — — — — — — — — — — — —	—Top soil w/ grass, dry (no recovery)	Cutting described every 5 ft Began drilling @ 15:15
11 — — — — — — — — — — — — — — — — — —	Limestone, gray,unweathered, dry	
14 — — — — — — — — — — — — — — — — — — —	Clayey silt w/ some very fine grained sand,derived from limestone, unweathered, yellow, dry	15 ft @ 15:20
21 — — — — — — — — — — — — — — — — — — —	Dark grayish brown silty shale w/ yellow mottles, some black discoloration (coal?), slightly moist	20 ft @ 15:23
_ 25 _	Limestone, gray to light gray, micritic, unweathered, dry	

Drilling Contractor: Pratt Well Service
Drilling Equipment: Failing SD300 w/ air

Driller: Mac McCaskey



BORING LOGS

PROJECT NUMBER:	103353	PROJECT NAME: KOCH INDUSTRIES DeSoto, Kansas					
BORING NUMBER:	UG-1	COORDINATE	S:			DATE:	4/21/04
ELEVATION:		GWL: Depth	27.86 ft BTOC	Date	5/11/04	DATE STARTED): 4/21/04
ENGINEER/GEOLOGIST:	Rick Ellis	Depth		Date		DATE COMPLET	TED: 4/21/04
RILLING METHODS: Air Hammer w/ 6 1/2" Bit				PAGE: 2 C	OF 2		

DEPTH (FT)	LITHOLOGIC DESCRIPTION	REMARKS
26— — — — — — — — — — — — — — — — — — —	Limestone, gray to light gray, micritic, unweathered, dry	6.
31— — 30— 32— — — 33— — — 34— — —	Limestone, gray to light gray, micritic, unweathered, dry	Cuttings much finer @ approx. 30 ft
36— — 35—	Limestone & shale, gray to dark gray, dry	Cuttings much finer w/ few chips
37—	—TD = 37ft	

Drilling Contractor: Pratt Well Service
Drilling Equipment: Failing SD300 w/air

Driller: Mac McCaskey