WATER	WELL R	ECORD	Form WWC	-5	Division of Wate	r Resources; App. No.	
1 LOCA	ATION OF V	VATER WELL:	Fraction		Section Number	Township Number	Range Number
	y: Crawfo		SE 1/4 NE 1/4 S		28	T 30 S	R 25 🗗 W
		on from nearest town or c	eity street address of w	ell if		Systems (decimal deg	
1	d within city?		1		Latitude:		
2 WAT	S. Free	King Hwy Pitt	sburg, KS 66	762	Longitude:		
Z WAI	St Address I	OWNER: KS. Dept Box# : 901 KS. A	of Agricultu	re	Elevation:		
City.	State, ZIP Co				Datum:		
	·	TOPCKU, I		000	Data Collection 1	Method:	
1	ATE WELL'S ATION	S 4 DEPTH OF COM	PLETED WELL	300	ft.		
	TION I AN "X" IN	Denth(s) Groundwate	r Encountered (1)3	UU-33	6 ft (2) 780	_900 £ (2)	ft.
1	ION BOX:	WELL'S STATIC W	ATER LEVEL.2.6.2	uua	helow land surface	measured on mo/day	/yr3/27/06
	N		a: Well water was				
		Est. Yield12gpr	m: Well water was		ft. after	hours pumping.	gpm
l l NW	NE		BE USED AS: 5 Publ	ic water	supply 8 Air 6	conditioning 11 In	
w		L i			ipply 9 Dew		ther (Specify below)
		2 Irrigation 4 Inc	dustrial 7 Domest	ic (lawn d	& garden) (10) Mon	itoring well	
SW -	SE	XX	-1-111111	144 144 1	D	N. V	TC
			riological sample subr				
	S	Sample was submitted	11119	wate	er wen distillected?	1 es No .A.	••••
5 TVDE		HIGED 5 W 1.	100		CACRI	T TOD ITTO CL 1	CI 1
	teel 3 R	GUSED: 5 Wrought MP (SR) 6 Asbestos	TION 8 CONC Coment 0 Other	rete tile r (specifi	( below)	G JOINTS: Glued	Clamped
2 P	VC 4 A	RS 7 Fiberglas	s-Cement 9 Other	(specify	below)	Threade	чХ
Blank cas	ing diameter	BS 7 Fiberglas 7 Fiberglas 19	ft Diameter5	i	in. to 515 ft	Diameter	in. toft.
Casing he	ght above la	nd surface18	in., Weight1.5		.lbs./ft. Wall thi	ckness or guage No.	
		R PERFORATION MATI	ERIAL:				
1 St			erglass 7 PVC				
		Salvanized Steal 6 Cond		10.	Asbestos-Cement	(2) None used (oper	ı hole)
1	OR PERFOR	RATION OPENINGS ART t 3 Mill slot 5 G		amah aut	0 Duillad halaa	Mana (anan h	a1a)
		er 4 Key punched 6 V	Guazed wrapped 7 To	oren eut	9 Diffied notes	(open n	ole)
		ED INTERVALS: From.					
			ft. to .				
0	GRAVEL PAG	CK INTERVALS: From	ft. to .		ft., From	ft. to .	ft.
		From	ft. to .		ft., From	ft. to .	ft.
6 CROU	T MATERIA	AL: Neat cement 2	Cement grout 3 Re	ntonite	1 Other		
Grout Inte		From5.15 ft. to0					
1		rce of possible contamina			10.00	., 110111	10. 00
I	eptic tank	4 Lateral lines		10 Livest	ock pens 13 Ins	ecticide Storage	16 Other (specify
1	ewer lines	5 Cess pool		11 Fuel st		andoned water well	below)
	atertight sew				•	l well/gas well	
				T	•		
FROM	TO	LITHOLOGIC		FROM	I TO	PLUGGING INT	ERVALS
	En	closed and Att	ached	1			
				+	+ +		
<u> </u>				<del> </del>	-		
							•
						-	
7 CONTI	RACTOR'S	OR LANDOWNER'S C	ERTIFICATION: T	his water	well was ① constr	ucted, (2) reconstruc	ted, or (3) plugged
under my	jurisdiction a	nd was completed on (mo	/day/year)3/.1.5/.1	96 and	this record is true t	o the best of my kno	wledge and belief.
		ntractor's License No5.					₹31¥.∩p
instruct	DUSINESS nam	e of <b>Evans Energ</b> ewriter or ball point pen. <u>PLE</u>	y Dev. Inc.	PRINT class	y (signature)	underline or circle the o	orrect aretyon Cond ton
three copies	to Kansas Depar	tment of Health and Environme	ent, Bureau of Water, Geolo	gy Section,	, 1000 SW Jackson St., S	Suite 420, Topeka, Kansas	66612-1367. Telephone
785-296-552	22. Send one	e to WATER WELL OWN					
nttp://www.l	kdhe.state.ks.us/g	geo/waterwells.					

## PITTSBURG #1 MONITORING WELL SAMPLE LOG

Depth (ft)	Cuttings Description/Driller Comments
	03/13/06
0-20	No samples collected; surface casing set at 21 ft.
	03/14/06
20-30	Gray silty shale and sandy siltstone. Started drilling at 7:45AM
30-40	-do-
40-50	Gray shale
50-60	Do
60-70	-do-
70-80	Gray siltstone; very fine sand
80-90	-do-
90-100	-do-
110-120	-do-
120-130	-do-
130-140	-do-
140-150	-do- carbonaceous or heavy oil?
150-160	-do- smell of petroleum; lots of subangular to angular chert grains; some fine sand;
	Mississippian top at 158 (driller)
160-170	Grày siltstone, sandstone chert granules, heavy oil globules;
170-180	White, speckled limestone some chert
180-190	Tan to light gray limestone
190-200	-do-
200-210	-do- water wet
210-220	-do- water wet
220-230	-do- dry sample
230-240	Tan fossiliferous limestone
240-250	-do-
250-260	White to light gray limestone
260-270	Light gray and tan limestone; some chert
270-280	Light gray limestone and chert
280-290	Tan and light gray limestone; some chert
290-300	Tan and light gray limestone and abundant chert; wet sample
300-310	Light gray and some tan limestone and white opaque chert abundant
310-320	Dark tan dolostone and abundant white to gray chert
320-330	Brown fine grained dolostone and chert
330-340	Chert dark gray to gray and brown dolostone; disseminated pyrite
340-350	-do-
350-360	-do-
360-370	-do- some red silt; driller notes porosity from 330-380; hole producing water.
370-380	Gray and white chert; dark gray dolostone; rare white limestone?
380-390	Dark gray dolostone some chert; some reddish silt
390-400	Gray chert; brown dolostone
400-410	Light gray and gray chert; brown dolostone; rare fragments of clear quartz

410-420	-do-			
420-430	Gray dolomitic limestone and chert			
430-440	Dark tan dolostone; some chert			
440-450	Tan limestone; some chert			
450-460	-do-			
460-470	-do- Northview at 463 (driller)			
470-480	Soft gray to greenish gray shale with disseminated pyrite			
480-490	Gray green shale			
490-500	Gray-green shale and tan limestone			
500-510	Tan limestone (Top of the Cotter at 510 ft.)			
510-520	Tan dolostone. (Casing point at 516 ft.) Stopped drilling at 12:30PM			
520-530	03/15/06			
	Tan and gray dolostone; minor translucent to white chert with oolites. Started			
	drilling at 8:30 AM			
530-540	-do- with minor green shale pieces			
540-550	Brown dolostone with minor translucent to white opaque chert minor black and green			
	shale			
550-560	-do- green shale absent			
560-570	Brown dolostone with abundant oolite-bearing brown to white translucent to opaque			
	chert and gray dolostone			
570-580	Gray and tan dolostone with minor opaque gray to white chert			
580-590	Brown and gray dolostone; sandy dolostone and clear quartz; gray shale			
590-600	Light tan dolostone; sandy dolostone; gray shale			
600-610	Brown dolostone; chert with oolites; some sandy dolostone			
610-620	Tan dolostone, chert, white, more abundant; silicified sandstone			
620-630	-do- green shale; pyrite			
630-640	Tan dolostone; clear and translucent quartz and some chert			
640-650	Tan to brown sandy dolostone; white chert and clear quartz; silicified sandstone;			
	green shale			
650-660	Brown dolostone; white silicified sandstone; white opaque chert			
660-670	-do-			
670-680	Brown dolostone; silicified dolostone; white chert containing silicified oolites			
680-690	-do- and brown sandy dolostone; trace amounts of pyrite			
690-700	-do-			
700-710	-do- silicified oolites more abundant			
710-720	Brown dolostone; minor chert and trace of pyrite			
720-730	Tan dolostone, translucent to white chert; green shale; pyrite			
730-740	Brown dolostone; sandy dolostone; green shale, translucent to white chert			
740-750	Brown dolostone; chert with ooids			
750-760	Brown dolostone; white silicified sandstone; ooids in chert; white translucent to			
	opaque chert; green shale			
760-770	-do- chert abundant			
770-780	-do- translucent chert and clear quartz fragments very abundant			
780-790	Gray dolostone; white silicified sandstone; green shale. Driller notes increasing water			
	flow into the borehole since the casing point.			
	,			

790-800	Gray dolostone; white to gray sandstone with minor glauconite and pyrite; trace green shale			
800-810	Tan dolostone; light gray sandy dolomite with sand grains set in a matrix of fine grained carbonate; glauconite			
810-820	Light gray and white sandy dolostone; green shale; pyrite.			
820-830	Gray to tan gray medium grained dolostone medium. Stopped drilling at about 830+. Potential drilling bit problems. 11PM			
830-840	03/16/06 Pulled stem out of the hole and changed bits at 9:30AM. Started drilling from 833 at 10:23 AM Tan dolostone with what appear to be oolites; sandy dolostone			
840-850	-do- trace of green shale; white chert and clear quartz			
850-860	Tan sandy dolomite; free sand grains fine to medium grained			
860-870	Gray dolostone			
870-880	Gray to light tan dolostone; white quartz sandstone; trace amounts of pyrite disseminated in dolomite and sandstone			
880-890	Fine to very fine quartz sand; no sample collected			
890-900	Fine to very fine quartz sand; no sample collected. Harder to drill than the previous 10 ft. Drilling ended at 12:30PM			