Site 4, Well #3

WATER WELL RECORD Form WWC-5 KSA 82a-1212

LOCATION OF WATER WELL: County: Stafford | Fraction: SW ¼ SE ¼ SE ¼ | Section Number: 36 | Township Number: T 23 S | Range Number: R 14 E (W)

Distance and direction from nearest town or city? 2 mi W of St. John

Street address of well if located within city?

WATER WELL OWNER: KGS/GWMD#5

RR#, St. Address, Box # :

City, State, ZIP Code : St. John, Kansas 67576

Board of Agriculture, Division of Water Resources Application Number:

DEPTH OF COMPLETED WELL 60 ft. Bore Hole Diameter 8 in. to 60 ft., and in. to ft.

Well Water to be used as: 1 Domestic 3 Feedlot 2 Irrigation 4 Industrial 5 Public water supply 6 Oil field water supply 7 Lawn and garden only 8 Air conditioning 9 Dewatering (10) Observation well 11 Injection well ~~12 Other (Specify below)~~ Research

Well's static water level 10.20 ft. below land surface measured on October month 15 day 1982 year

Pump Test Data: Well water was ft. after hours pumping gpm

Est. Yield gpm: Well water was ft. after hours pumping gpm

TYPE OF BLANK CASING USED: 1 Steel (2) PVC 3 RMP (SR) 4 ABS 5 Wrought iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)

Casing Joints: Glued ✓ Clamped Welded Threaded

Blank casing dia 5 in. to 53 ft., Dia in. to ft., Dia in. to ft.

Casing height above land surface 24 in., weight lbs./ft. Wall thickness or gauge No Schd 40

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless steel 4 Galvanized steel 5 Fiberglass 6 Concrete tile (7) PVC 8 RMP (SR) 9 ABS 10 Asbestos-cement 11 Other (specify) 12 None used (open hole)

Screen or Perforation Openings Are: 1 Continuous slot (3) Mill slot 2 Louvered shutter 4 Key punched 5 Gauzed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) 11 None (open hole)

Screen-Perforation Dia 5 in. to 58 ft., Dia in. to ft., Dia in. to ft.

Screen-Perforated Intervals: From 53 ft. to 58 ft., From ft. to ft.

From ft. to ft., From ft. to ft.

Gravel Pack Intervals: From 58 ft. to 50 ft., From ft. to ft.

From ft. to ft., From ft. to ft.

GROUT MATERIAL: (1) Neat cement 2 Cement grout 3 Bentonite 4 Other

Grouted Intervals: From 3 ft. to 1.5 ft., From ft. to ft., From ft. to ft.

What is the nearest source of possible contamination: not determined

1 Septic tank 2 Sewer lines 3 Lateral lines 4 Cess pool 5 Seepage pit 6 Pit privy 7 Sewage lagoon 8 Feed yard 9 Livestock pens 10 Fuel storage 11 Fertilizer storage 12 Insecticide storage 13 Watertight sewer lines 14 Abandoned water well 15 Oil well/Gas well 16 Other (specify below)

Direction from well How many feet ? Water Well Disinfected? Yes (No)

Was a chemical/bacteriological sample submitted to Department? Yes (No) If yes, date sample was submitted month day year: Pump Installed? Yes (No)

If Yes: Pump Manufacturer's name Model No. HP Volts

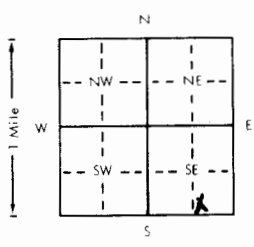
Depth of Pump Intake ft. Pumps Capacity rated at gal./min.

Type of pump: 1 Submersible 2 Turbine 3 Jet 4 Centrifugal 5 Reciprocating 6 Other

CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on June month 22 day 1978 year and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No.

This Water Well Record was completed on Nov month 15 day 1982 year under the business name of by (signature) Patrick M Cobb

LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



ELEVATION:

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
		see attached log			

Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft. 4. ft. (Use a second sheet if needed)

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, Division of Environment, Water Well Contractors, Topeka, KS 66620. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY T 23 R 14 E (W) SEC. 36 SE¼ SE¼ SE¼

BIG BEND GMD#5-KGS
WATER QUALITY
OBSERVATION WELL
NETWORK

SITE NUMBER : 4
SITE LOCATION: SW SE SE
SAMPLING DATE: OCTOBER 1978

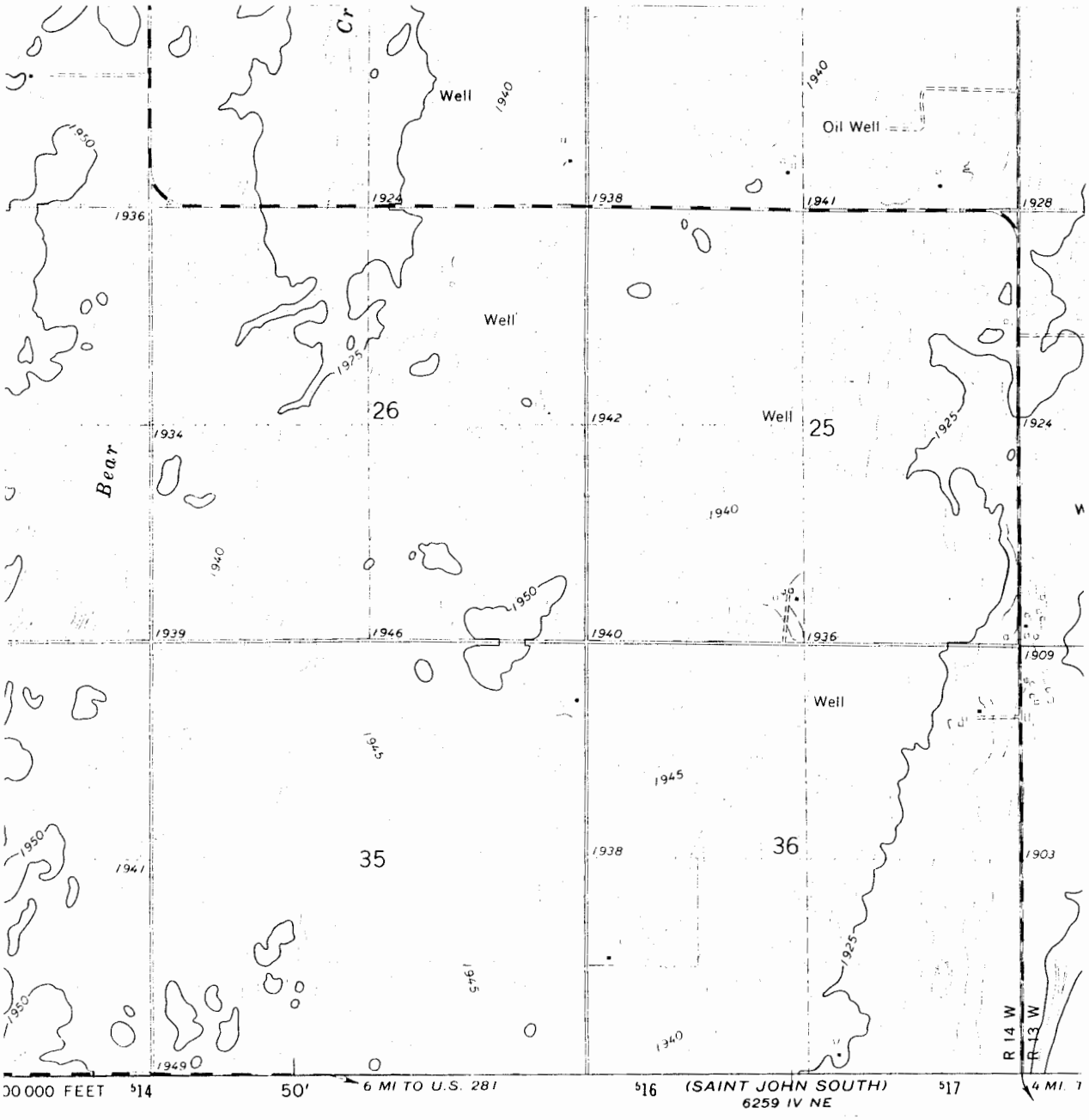
LEGAL LOCATION : 36-23-14W
COUNTY : STAFFORD
NUMBER OF WELLS: 3

WATER QUALITY ANALYSIS (mg./l)

	WELL#1	WELL#2	WELL#3	WELL#4
TEMPERATURE, C	16.5	16.0	16.0	
SPECIFIC CONDUCTANCE umho @ 25 deg C.	66,700	3370	917	
pH	7.1	7.8	7.5	
CALCIUM (Ca):	1926	72	70	
MAGNESIUM (Mg):	869	24	12	
POTASSIUM (K):	42	5.7	3.6	
SILICA (SiO_2):	14	28	22	
SODIUM (Na):	18,140	615	110	
SAR:	86	16	3.2	
BICARBONATE (HCO_3):	81	271	260	
CHLORIDE (Cl):	10000	958	143	
FLUORIDE (F):	0.2	0.9	0.6	
NITRATE (NO_3):	0.5	0.2	1.0	
ORTHO-PHOSPHATE (PO_4):	4.59	3.78	0.09	
SULFATE(SO_4):	3602	122	35	
SULFIDE (S):				
STRONTIUM (Sr):	38	1.3	0.6	

SITE NUMBER : 4
SITE LOCATION : SW SE SE
LEGAL LOCATION: SEC36 T23S R14W
COUNTY : STAFFORD

LANDOWNER: DAYLE GILLESPIE, JR.
ADDRESS : ROUTE 1
St. JOHN, KANSAS 67576
PHONE NO.: 316-549-6646



, WELL LOCATION *

BIG BEND GMD=5-KGS
WATER QUALITY
OBSERVATION WELL
NETWORK

SITE NUMBER : 4 LEGAL LOCATION: 36-23-14W
SITE LOCATION: SW SE SE COUNTY : STAFFORD

WELL LOG

FROM	TO	LITHOLOGIC LOG	OWNER: GILLESPIE
0	3	black topsoil	
3	13	brownish-grey silty clay, little sand	
13	17	brownish black clay	
17	20	grey sandy clay	
20	22	fine sand	
22	53	fine to coarse sand with yellowish-brown clay	
53	69	yellow clay, increase in sand with depth	
69	130	pinkish brown sandy clay, fine to coarse sand	
		pink caliche at 115-119'	
130	132	sand, fine to med., some pink clay	
132	140	gray clay, some gravel and caliche	
140	176	yellow chalky clay at 140'; more gravel at 147';	
		heavy chatter at 149'; slow drilling at 151';	
		some pinkish clay throughout; coal at 160';	
		at 175', dark grey shale-like inclusions	
176	180	red silty clay	
180	188	light grey clay	
188	204	qtz. arkosic sand; some calcareous yellow brown	
		siltstone; white non-calcareous chips at 192';	
		trace of oil at 200'	
204	227	red siltstone, non-calcareous--PERMIAN	

Cretaceous Bedrock 129' depth
Permian Bdr (206') depth