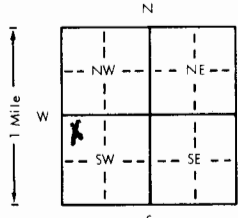


1 LOCATION OF WATER WELL		Fraction		Section Number	Township Number	Range Number		
County: Reno		NW 1/4	NW 1/4	SW 1/4	6	T 22 S R 10 EW		
Distance and direction from nearest town or city? 7-1/2 mi S, 3 mi W of Raymond				Street address of well if located within city?				
2 WATER WELL OWNER: KGS/GWMD#5								
RR#, St. Address, Box #				Board of Agriculture, Division of Water Resources				
City, State, ZIP Code: St. John, Kansas 67576				Application Number:				
3 DEPTH OF COMPLETED WELL: 66 ft. Bore Hole Diameter: 10 in. to 66 ft. and in. to ft.								
Well Water to be used as:								
1 Domestic 3 Feedlot 5 Public water supply 8 Air conditioning 11 Injection well								
2 Irrigation 4 Industrial 6 Oil field water supply 9 Dewatering 12 Other (Specify below)								
7 Lawn and garden only 10 Observation well Research								
Well's static water level: 13.10 ft. below land surface measured on October month 28 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								
4 TYPE OF BLANK CASING USED:								
1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile Casing Joints: Glued <input checked="" type="checkbox"/> Clamped								
2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded								
3 Mill slot 7 Fiberglass Threaded								
Blank casing dia: 5 in. to 62 ft. Dia in. to ft. Dia in. to ft.								
Casing height above land surface: 12 in., weight lbs./ft. Wall thickness or gauge No. Schd 40								
TYPE OF SCREEN OR PERFORATION MATERIAL:								
1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement								
2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 11 Other (specify)								
12 None used (open hole)								
Screen or Perforation Openings Are:								
1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)								
2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes								
7 Torch cut 10 Other (specify)								
Screen-Perforation Dia: 5 in. to 66 ft. Dia in. to ft. Dia in. to ft.								
Screen-Perforated Intervals: From 62 ft. to 66 ft. From ft. to ft. From ft. to ft.								
Gravel Pack Intervals: From 66 ft. to 60 ft. From ft. to ft. From ft. to ft.								
5 GROUT MATERIAL:								
1 Neat cement 2 Cement grout 3 Bentonite 4 Other								
Grouted Intervals: From 5 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 4 Cess pool 7 Sewage lagoon 10 Fuel storage 14 Abandoned water well								
2 Sewer lines 5 Seepage pit 8 Feed yard 11 Fertilizer storage 15 Oil well/Gas well								
3 Lateral lines 6 Pit privy 9 Livestock pens 12 Insecticide storage 16 Other (specify below)								
13 Watertight sewer lines								
Direction from well: How many feet ? Water Well Disinfected? Yes <input checked="" type="checkbox"/> No								
Was a chemical/bacteriological sample submitted to Department? Yes <input checked="" type="checkbox"/> No If yes, date sample								
was submitted month day year: Pump Installed? Yes <input checked="" type="checkbox"/> 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								
6 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was								
completed on August month 29 day 1979 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								
7 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:		FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG	
				see attached log				
ELEVATION:								
Depth(s) Groundwater Encountered		1	2	3	4	(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.

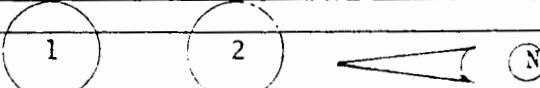
BIG BEND GMD#5-KGS
WATER QUALITY
OBSERVATION WELL
NETWORK

SITE NUMBER : 11
SITE LOCATION: NW NW SW

LEGAL LOCATION: 6-22-10W
COUNTY : RENO

WELL LOG

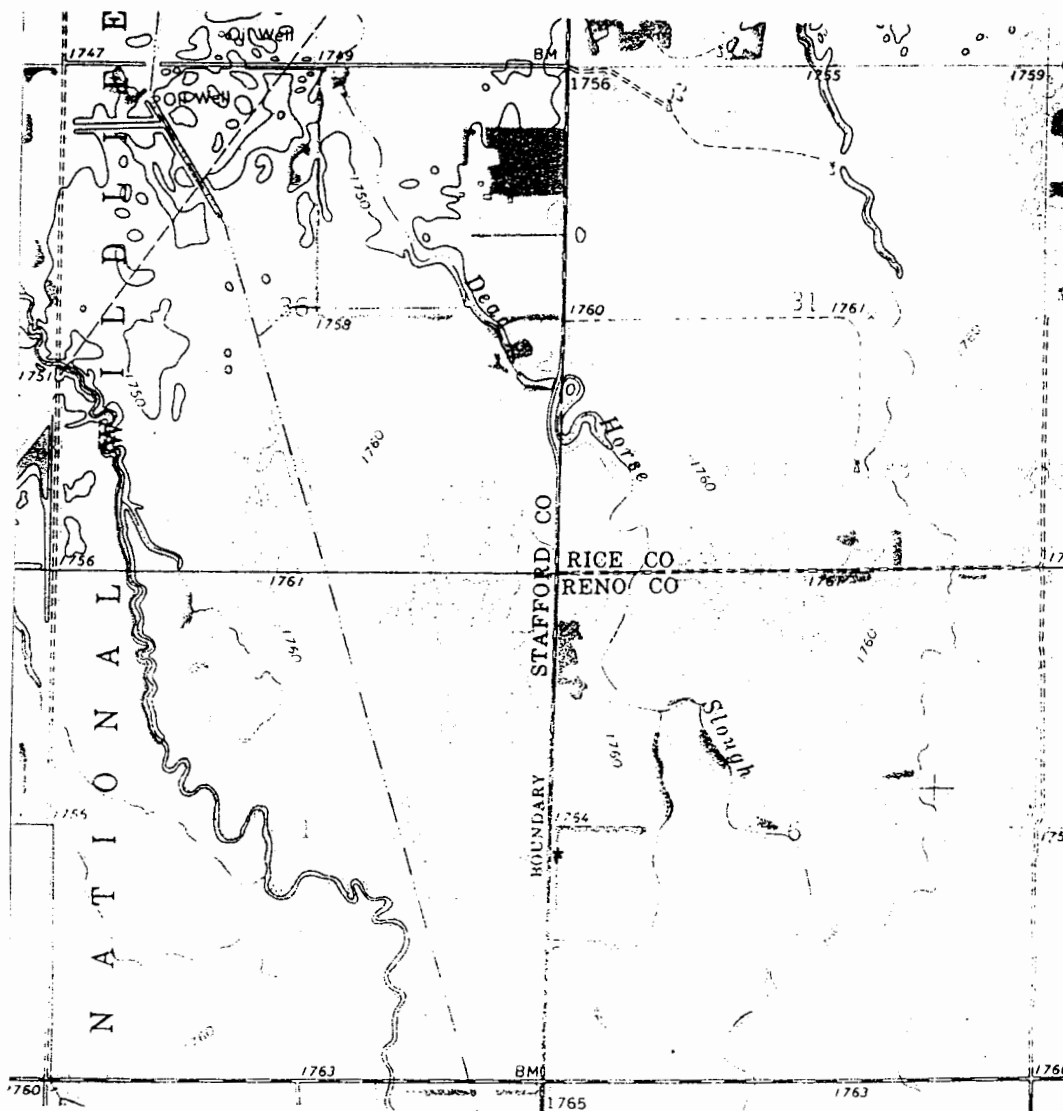
FROM	TO	LITHOLOGIC LOG	OWNER: KEENAN
0	6	silt, sandy, grey with traces of yellow fine grained sand	
6	8	grey clay with some fine qtz. arkosic sand	
8	16	mixed grey, tan, yellow clays with slight fine sand; some med. sand stringers	
16	23	sand, med. to coarse, qtz. arkosic	
23	25	grey clay, clean	
25	46	interbedded tan and grey clays, slightly sandy; lenses of coarse sand and fine to med. gravel.	
46	60	interbedded coarse qtz. arkosic sand and light grey to white clay matrix	
60	69	fine qtz. arkosic sand, coarse and med.; with clay stringers, red, tan, and grey color	
69	71	qtz. arkosic sand and gravel	
71	79	same but with grey clay and yellowish-tan clay matrix	
79	86	clay, light yellow-tan; much fine to med. sand	
86	91	tan clay with some fine, qtz. arkosic sand and some gravel stringers	
91	95	qtz. arkosic gravel, slight grey clay	
95	104	clay, light grey, with sand and gravel	
104	110	dark grey clay stringers, sandy, with minor white and light brown stringers	
110	114	fine and med. qtz. arkosic sand with grey clay	
114	119	med. to coarse sand with grey clay	
119	123	med. to coarse sand with darker grey clay	
123	136	dark grey clay, silty, slightly sandy with stringers of peaseize gravel	
136	166	dark grey clay with varying amounts of sand and gravel	
166	170	dark grey clay, slightly sandy	
170	184	sand and gravel, qtz. arkosic; with dark grey clay matrix	
184	208	sand and gravel	
208	219	siltstone of shale, red, greasy--PERMIAN	



TD=241' TD=66'
 237' / 4' 61' / 5'
 22' to 224'

SITE NUMBER : 11
SITE LOCATION : NW NW SW
LEGAL LOCATION: SEC6 T22S R10W
COUNTY : RENO

LANDOWNER: LARRY KEENAN
ADDRESS : 3616 17th
GREAT BEND, KANSAS 67530
PHONE NO.: 316-793-9047



WELL LOCATION *

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

SITE NUMBER :11	LEGAL LOCATION : 6-22-10W
SITE LOCATION: NW NW SW	COUNTY : RENO
SAMPLING DATE: NOVEMBER 1979	NUMBER OF WELLS: 2

WATER QUALITY ANALYSIS

	<u>WELL#1</u>	<u>WELL#2</u>	<u>WELL#3</u>	<u>WELL#4</u>
TEMPERATURE, C	<u>15.9</u>	<u>15.0</u>	<u> </u>	<u> </u>
SPECIFIC CONDUCTANCE umho @ 25 deg C.	<u>21,300</u>	<u>4,000</u>	<u> </u>	<u> </u>
pH	<u>8.6</u>	<u>7.4</u>	<u> </u>	<u> </u>
CALCIUM (Ca):	<u>406</u>	<u>222</u>	<u> </u>	<u> </u>
MAGNESIUM (Mg):	<u>75</u>	<u>33</u>	<u> </u>	<u> </u>
POTASSIUM (K):	<u>21</u>	<u>4.8</u>	<u> </u>	<u> </u>
SILICA (SiO ₂):	<u>16</u>	<u>23</u>	<u> </u>	<u> </u>
SODIUM (Na):	<u>4502</u>	<u>578</u>	<u> </u>	<u> </u>
SAR:	<u>53.9</u>	<u>9.6</u>	<u> </u>	<u> </u>
BICARBONATE (HCO ₃):	<u>43</u>	<u>270</u>	<u> </u>	<u> </u>
CHLORIDE (Cl):	<u>6,930</u>	<u>1,116</u>	<u> </u>	<u> </u>
FLUORIDE (F):	<u>0.3</u>	<u>0.1</u>	<u> </u>	<u> </u>
NITRATE (NO ₃):	<u>1.2</u>	<u>2.2</u>	<u> </u>	<u> </u>
ORTHO-PHOSPHATE (PO ₄):	<u>0.07</u>	<u>0.24</u>	<u> </u>	<u> </u>
SULFATE (SO ₄):	<u>957</u>	<u>93</u>	<u> </u>	<u> </u>
SULFIDE (S):	<u> </u>	<u> </u>	<u> </u>	<u> </u>
STRONTIUM (Sr):	<u>6.2</u>	<u>1.6</u>	<u> </u>	<u> </u>