

NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$

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

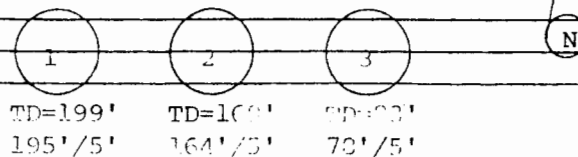
SITE NUMBER : 46
SITE LOCATION: NE NE NE

LEGAL LOCATION: 6-29-11W
COUNTY : PRATT

WELL LOG

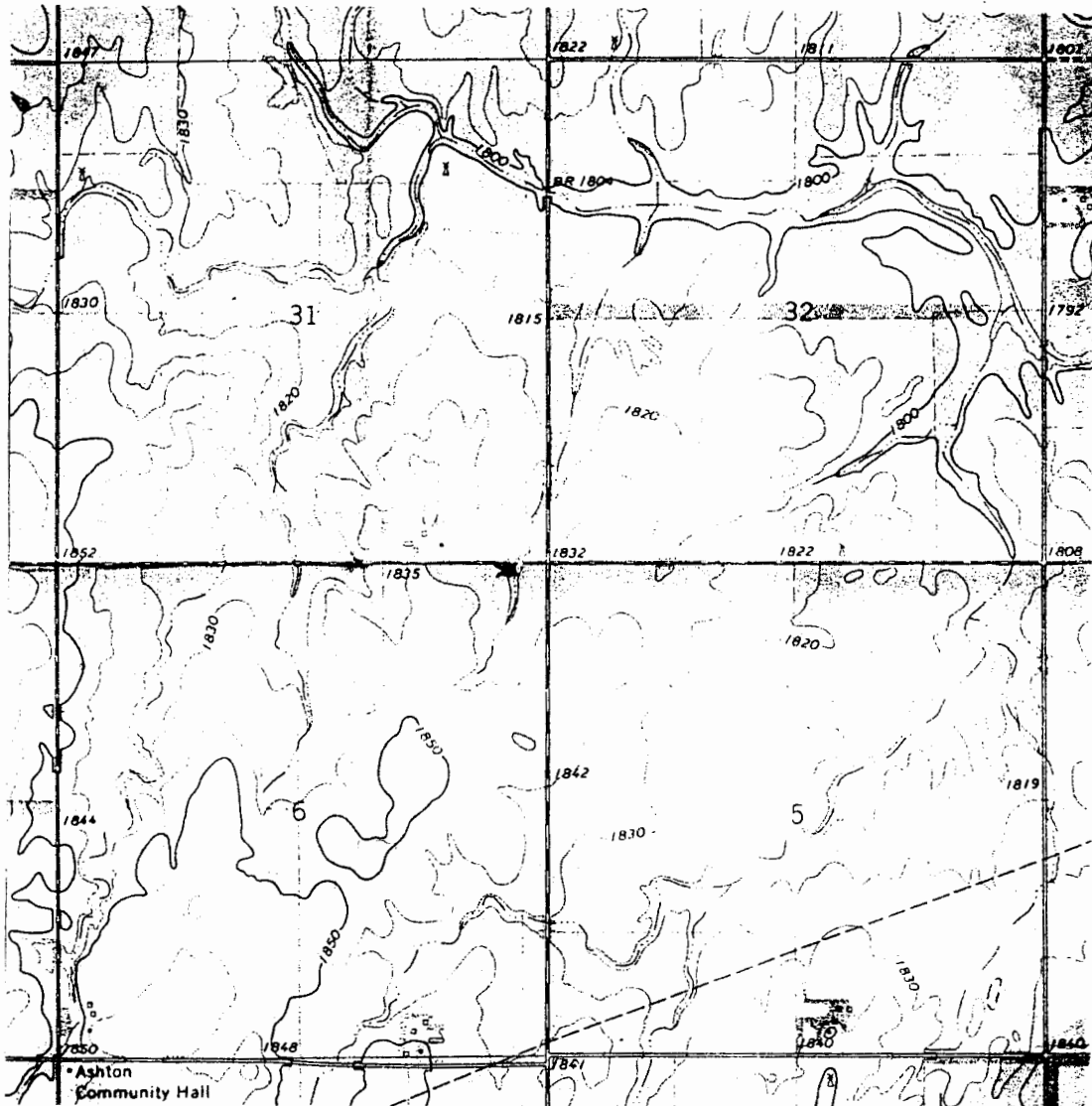
FROM	TO	LITHOLOGIC LOG	OWNER: ARMISTEAD/BRANT
0	1	black topsoil	
1	3	reddish tan clay	
3	4	black silty clay	
4	8	tan clay with silt and caliche	
8	11	gray and tan silty clay with caliche	
11	13	white, orange, tan, and pink clay with fine to very fine sand; heavy caliche at 12'	
13	17	sand with orange clay, some caliche	
17	20	sand with pinkish clay and caliche	
20	37	sand, 0.5-1.0 mm	
37	44	sand (1.0 mm), some caliche	
44	49	clay, light brown to white, hard; some caliche	
49	56	sand (0.5 mm) yellow clay and caliche	
56	62	same, very hard drilling at 59'	
62	77	sand (0.5-1.5 mm)	
77	91	sand (1.0-2.5 mm) pebbles, cobbles	
91	92	tan clay and caliche	
92	98	coarse sand, fine gravel (1.5-3.0 mm), caliche	
98	114	sand (0.5-2.0 mm) white and tan clay, caliche	
114	115	pink clay	
115	122	sand and gravel (1.0-3.0 mm); clay lenses at 118-118.5' and 120-122'	
122	136	clay, tan with sand	
136	143	sand and gravel (0.5-2.5 mm), tan clay	
143	144	tan clay	
144	148	sand (1.0-1.5 mm), trace of clay	
148	149	cobbles or caliche	
149	152	sand (1.0-2.0 mm) trace of red clay	
152	157½	sand and gravel (1.0-3.0 mm) pink clay	
157½	158	cobbles or heavy caliche	
158	161	sand and gravel (1.0-3.0 mm)	
161	162	cobbles or heavy caliche	
162	164	gravel (3.0 mm)	
164	179 177	pink clay with sand and gravel	
179	202	red beds, silty to sandy Permian	

177



SITE NUMBER : 46
SITE LOCATION : NE NE NE
LEGAL LOCATION: 6-29-11W
COUNTY : PRATT

LANDOWNER: DALE ARMISTEAD
ADDRESS : c/o DARRELL BRANT
ISABEL, KS 67065
PHONE NO.: (316)-739-4545



WELL LOCATION *

Owner -----

NE 1/4 NE 1/4 NE 1/4 sec. 6 T. 89 R. 11

County Pratt Date 15 Sept 82

Static Water Level -----

Topo. Sheet ----- Elev. -----

Depth 202' Yield -----

Location -----

46 Well #1

Formation Record

ft.	From	To	Description
K	0	1	top soil
	1	3	reddish tan clay
	3	4	black silty clay
	4	8	tan clay with silt & calcite
	8	11	gray tan silty clay with calcite
	11	13	whitish orange tan, pink clay with fine to very fine sand
			gray calcite @ 12'
1	13	17	sand fine, orange, with orange clay (.5mm) some calcite
	17	20	sand, fine - very fine, pinkish clay calcite
2	20	37	sand fine to med with calcite
	37	49	sand medium (1mm) some calcite
3	49	47	clay, light brown to white, hard, some calcite
	47	49	same
	49	56	sand, fine (.5mm) yellow clay, calcite
4	56	62	same very hard @ 59' some 1mm sand
	62	77	sand < 1mm coarse 69-65
			same sand < .5mm
	77	89	sample shows med to coarse sand - med loss
			in layers coarse materials, recovered 5 cm
			coarse from bit
	89	91	same
5	91	92	tan clay & calcite

Owner -----

----- 1/4 ----- 1/4 ----- 1/4 sec. ----- T. ----- R. -----

County ----- Date -----

Static Water Level -----

Topo. Sheet ----- Elev. -----

Depth ----- Yield -----

Location -----

Formation Record

ft.	From	To	Description	
	92	98	fine gravel, coarse	sand, some caliche (1-2.5 mm)
	98	100	sand ($\frac{1}{2}$ to 2mm)	some tan clay caliche
	100	104	sand ($\frac{1}{2}$ mm), clay	
7	104	107	sand ($\frac{1}{2}$ mm), white	clay some 1mm sand, trace caliche
	107	114	sand (1-2 mm), fine	gravel > 2 mm, < 3mm
	114	115	pink clay	
	115	122	sand ($\frac{1}{2}$ mm), sand	(2mm), gravel (3mm), caliche
			clay @ 118, pink	to gray tan clay 120-122
8	122	128	tan clay with fine	sand & caliche
	128	136	sand, $< \frac{1}{2}$ to > 2mm	tan clay
9	136	137	sand $< \frac{1}{2}$ to > 1 mm,	fine gravel
	137	143	fine to med sand,	some clay very coarse @ 142'
	143	144	clay, tan	
	144	148	sand 1-1 $\frac{1}{2}$ mm	with trace of clay
	148	149	cobbles or heavy	caliche
10	149	152	sand (1-2 mm),	trace of red clay
	152	157 $\frac{1}{2}$	sand (1-2 $\frac{1}{2}$ mm)	, some gravel (> 2 $\frac{1}{2}$ mm) pink clay
	157 $\frac{1}{2}$	158	cobbles or caliche	
	158	161	sand / gravel	
	161	162	cobbles or caliche	
	162	164	fine gravel (3mm)	
1	164	167	pink clay some	fine gravel

----- 1/4 ----- 1/4 ----- 1/4 sec. ----- T. ----- R. -----

Static Water Level -----

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ft.	From	To	Description
	167	169	clay, pink, fine sand
	169	179	sand/gravel very coarse @ 169 1/2, 171 1/2,
			pink clay
	179	181	dark red clay (unweathered red bed)
12	181	182	unweathered red siltstone
13	182	197	same
	197	202	same
			TD = 202
			5' screen (5") (cap on bottom)
			200' blank 5"
			cored depth = 199
			land surface to cap
			gravelled interval 199 - 192
			29 sacks portland as 360 gal mat
			caved to 41 feet next day (Sept 16)
			10 1/2 bags gel 2 quick trials

Owner Site # 41 NW 1/4 NE 1/4 sec. 12 T. 29 R. 13 W

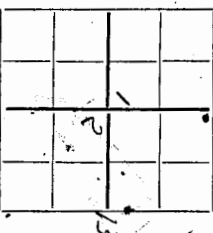
County Date

Static Water Level

Topo. Sheet Elev.

Depth Yield

Location 4 mi north west of Sawyer



Formation Record

From	To	Description
0 - 1 1/2		black clayey top soil
1 1/2 - 6		tan clayey sand zone caliche @ 3' (1/2 mm)
6 - 10		sand (< 1 mm) minor clay also gravel (2.5-3.5 mm)
10 - 12		clay yellow
12 - 17		sand & gravel (1-4 mm) angular QA
17 - 19		sand 1-2 mm clay lens @ 15'
19 - 30		clay gray with sand < 1/2 mm, some 1 mm sand
		tan at 29, some gray, yellow gray occasional coarse caliche
30 - 32		sand / gravel 1-3 mm (lenses in above clay)
32 - 32		remained 17-32, twice due to swelling clay
32 - 40		clay & caliche tan trace 1 mm sand angular
		pinkish tan trace gravel 3 mm
40 - 42		sand < 1/2 mm - 1 mm some tan clay
42 - 44		same 44' 6" gravel.
44 - 47		tan clay with some sand 1/2 - 2 1/2 mm
		some gravel > 2.5 mm
		some caliche
47 - 52		clay, tan, with fine sand ~ .35 mm, caliche, some 1 mm sand
52 - 55		sand 1 mm some yellow clay
55 - 62		clay sand 1/2 - 2 mm yellow clay lenses
62 - 67		sand with 1/2 to 1 1/2 mm tan clay lens some cobbles?
67 - 75		clay & sand mostly sand, 1 mm, tan clay some caliche

1/4 1/4 1/4 sec. T. R.

Static Water Level -----

Depth	Yield
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No.	From	To	Description
5	95	97	tan clay matrix, 8 white clay, 1 light gray calcareous sand (1-2 mm) calcareous
6	97	80	same fine gravel (1-5 mm) angular
7	80	92	sand, gravel, cobbles, interbedded, calcareous tan clay (4-5 mm)
8	92	104	clay changed to gray near bottom
9	104	109	sand/gravel (1/2 mm - 2 mm) calcareous tan clay, orange clay
10	104	109	clay, yellow, white, tan, with fine sand, thin gravel
11	add 104 to 109	109	loose, some calcareous
12	107	109	sand (1-2 mm) tan clay matrix - calcareous
13			zone of pebbles & cobbles, some gravel
14	109	119	sand/gravel (1/2-3 mm) coarse clay, tan, calcareous
15			cobble zone of 109
16	119	-120	sand as above
17	120	124	sand (1.25 - 2 mm) mostly fine, some tan clay
18	124	139	sand (.5 - 2 mm) angular, some tan clay, some calcareous
19			clay 137.5 - 169 same white clay
20			cobble zone 131 - 139 some gravel (1.5 - 3 mm)
21	139	141	same
22	141	143	sand & clay coarse, white
23	143	154	coarse sand, gravel, cobbles, some clay
24			fine through coarse sand clay calcareous
25			pink, brown, tan clay

Owner -----

1/4 - 3/4 - 1/4 sec. - T. - R. -

County -----

Static Water Level -----

Topo. Sheet -----

Depth -----

Location -----

Date -----

Elev. -----

Yield -----

Formation Record

i. From To		Description	
154	157	same	
56 157	165	very fine sand clay and gravel	mostly clay, fine gravel, gray tan, pinkish tan to pinkish tan, white
2 165	169	sand/gravel cobbles	
169	170	sand/gravel cobbles	tan to grayish tan, trace caliche
170	174	redbeds	
3 170	184	redbeds	
184	199	redbeds - sandy, all stone, crumbly	
TD = 199			
1 cap			
1 collar			
5' hand spotted screen			
#3	dull to qz		fine