

1

BIG BEND GMD#5-KGS

OBSERVATION WELL

OBSERVATION WELL

NETWORK

SITE NUMBER : 46

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	

195' / 5'

3.64' / 5'

72' / 5'

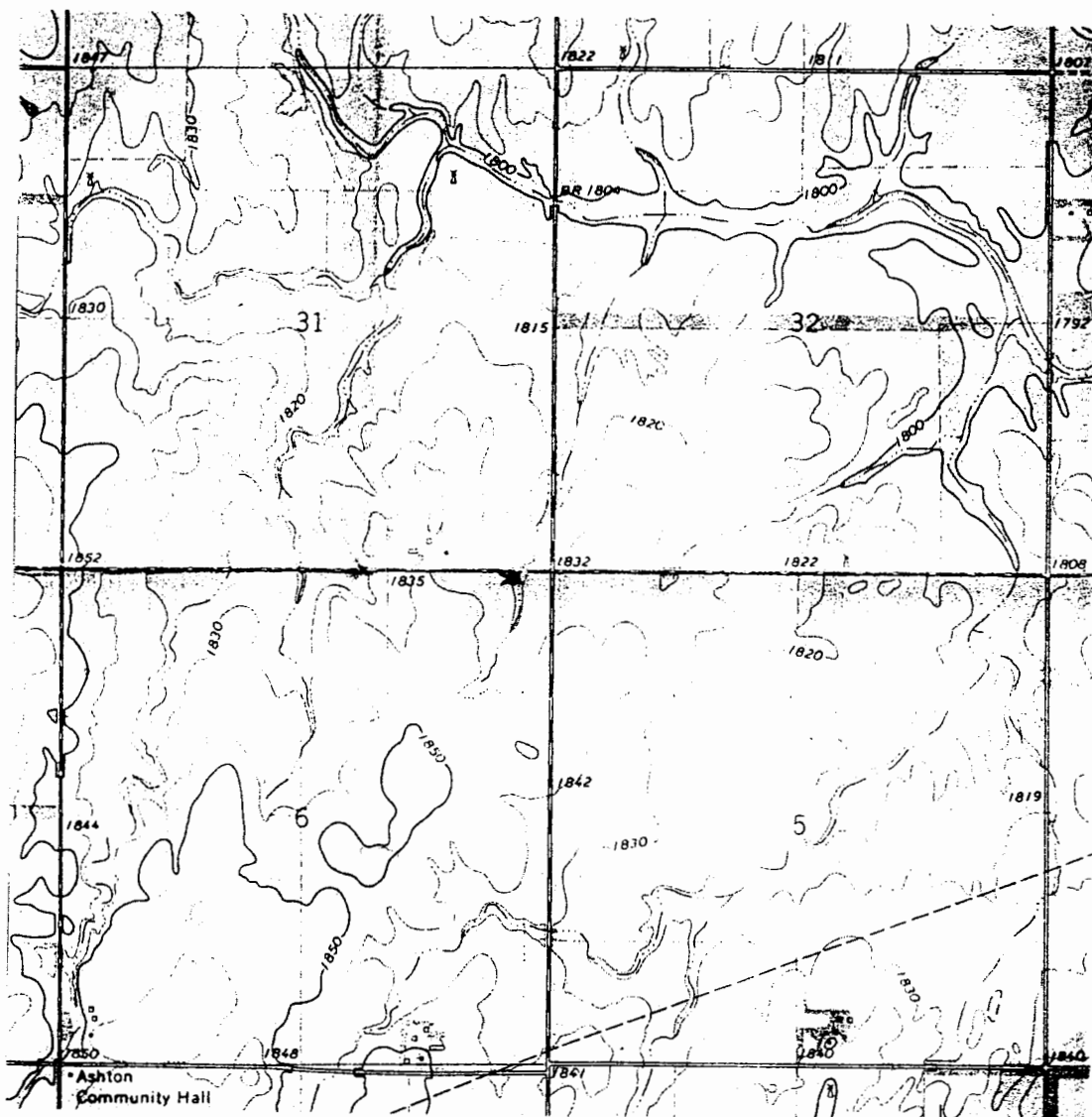
195' / 5'

164' / 5'

73' / 5'

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. 29 R. 11 N

County Pratt Date 15 Sept 82

Static Water Level -----
drilled

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

Depth 202' Yield -----

Location -----

46 Well # 1

Formation Record

ft.	From	To	Description
0	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		whit, orange, tan, pink clay with fine to very fine sand
			very calc. @ 12'
1	13	17	sand fine, orange, with orange clay (0.5mm) some calcite
17	20		sand, fine - very fine, pinkish clay calcite
2	20	37	sand fine to med with calcite
37	44		sand medium (1mm) some calcite
3	44	47	clay, light brown to white, hard, some calcite
47	49		same
49	56		sand, fine (0.5mm) yellow clay, calcite
4	56	62	same very hard @ 59' some 1mm sand
62	77		sand 1mm coarse 64-65
			sand 1.5mm
77	89		sample shows med to coarse sand - med loss
			material's recovered 6 cm
			calcite from bit
89	91		some
91	92		tan clay & calcite

Owner -----

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

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

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

Location -----

Static Water Level -----

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

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 2 mm)	some tan clay caliche
	100	104	sand ($\frac{1}{2}$ mm), clay	
7	104	107	sand ($\frac{1}{2}$ mm), white	clay some 1 mm sand, trace caliche
	107	114	sand (1-2 mm), fine	gravel > 2 mm, < 5 mm
	114	115	pink clay	
	115	122	sand ($\frac{1}{2}$ mm), sand	(2 mm), gravel (3 mm), 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 > 2 mm	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 (3 mm)	
1	164	167	pink clay some	fine gravel

Owner 11016 700 2000 81

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

County gravel @ 74

Date 74

Topo. Sheet Elev.

Location Depth Yield

Formation Record

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

gravel 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. 13W

County: Date:

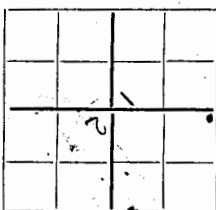
Static Water Level:

Topo. Sheet: Elev.:

Depth: Yield:

Location: 4 mi north & west of Sayler

Formation Record



ft.	From	To	Description
0	1 1/2		black clayey top soil
1 1/2	6		tan clayey sand zone caliche @ 3' (1/2 in)
6	10		sand (< 1mm) minor clay also gravel (2.5-3.5 mm)
10	12		clay & gray
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 1mm sand
			tan at 29, some gray, yellow gray occasional gravel
30	32		sand / gravel 1-3 mm (lenses in above clay)
			rounded 17-32 fine due to swelling clay
32	40		clay & caliche tan trace gravel 3mm
			pinkish tan
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 ~ .25 mm, caliche, some 1mm sand
52	55		sand 1mm some yellow clay
55	62		sand sand 1/2 - 2mm yellow clay lenses
62	67		sand with 1/2 to 1 1/2 mm tan clay lenses some cobbles?
67	75		clay & sand mostly sand, 1mm, tan clay some caliche

Owner -----

County -----

Topo. Sheet -----

Location -----

Date -----

Elev. -----

Static Water Level -----

Depth -----

Formation Record

From To Description

5 75 77 tan clay with clay matrix, (1-2 mm) calcite

77 80 same fine gravel (1-5 mm) aggr.

80 92 sand gravel, cobbles, calcite tan clay (1/4-3 mm)

92 104 sand/gravel (1/2 mm - 2 mm) calcite tan clay, orange clay

104 107 clay, yellow, whitish tan, with fine sand, thin gravel

107 109 sand (1-2 mm) tan clay matrix - calcite

109 119 sand/gravel (1/2-3 mm) coarse clay, tan, calcite

119 120 same as above

120 124 sand (1.25-2 mm) mostly fine, some tan clay

124 139 sand (.5-2 mm) angular same tan clay, some calcite

139 141 same

141 143 sand + clay coarse, white

143 154 coarse sand, gravel cobbles some clay

fine through coarser sand

pink, brown, tan clay

Owner _____

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ sec. T. R.

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

Static Water Level -----

Topo. Sheet	Elev.
14-1	14-1

Depth ----- **Yield** -----

-----Location-----

Formation Record

	From	To	Description
it.			

	154	157	same
56)	157	165	very fine sand, clay and gravel, mostly clay, fine gravel (3mm), gray, tan, pink, gray, tan to pinkish tan, white
			also fine sand (< 1/2 mm)
2	165	169	sand/gravel, cobbles
	169	170	sand/gravel, cobbles
			for 169-170, 170-175
3	170	184	redbeds
	184	199	redbeds, sandy siltstone, crumbly
	TD = 199		
	1 cap		
	1 collar		
	5' hand slotting screen		
#3	drill	to 92	ft