

DOUGHERTY COUNTY

A. C. MUNYAN
 June 6, 1939
 Albany Well #7.

DRILLERS RECORD

6/14/39 Started drilling below 30" Pit casing set at 412' at 4 P.M.

421	-	423	Rock	
423	-	425	Drilled like sand	
435	-	436	Hard shell	
436	-	446	Rock	
446	-	459	Sand	
459	-	461	Two shells	
461	-	464	Sand	
464	-	465	Rock	
465	-	485	Rock ledges	6/15/39
485	-	537	Soft blue shale	
537	-	538	Hard rock	
538	-	560	Sand	
560	-	562	Hard shell	
562	-	570	Sand	
570	-	572	Hard shell	
572	-	575	Sand	
575	-	591	Ran core barrell	

6/16/39 Put on rock bit and began drilling at 4 A. M. recovered first sample when drill at 610 ft. at 7:40 A. M. Second sample at 8:10 A.M.

600	-	610	Sand	
610	-	620	Sand	
620'			8:10 A. M.	6/16/39
628'			Started going faster.	
620	-	630	Sample 8:50 A. M.	
634	-		Hard shell	
635			Softer	
637			Kelly on bottom	
637			Back in hole	
640			Sample taken 630-640 35 min. to drill	
640	-	650	Sample taken 10:50 40 min. drilling time.	
652			Back on bottom	
650	-	660	Sample taken 11:40 A. M. Drill time 30 min.	
660	-	670	Sample taken 12:40 P. M. 6/16/39 Drill time 1 hr.	
675			Kelly down	
660			Harder lots of shell	
675			Kelly on bottom	
670	-	680	Sample at 1:55 P. M. Drill time 45 min.	
680	-	690	Sample taken 2:55 P. M. drill time 1 hr.	
695			Kelly down	
695			Began to drill at 3:40 P. M. pump off 8 min.	
695	-	705	35 min. sample at 4:35	
705	-	715	55 min. sample at 5:30 P. M.	
715			Shut down 1 hr. until 6:55 P. M.	
715	-	725	55 min. sample at 7:10 P. M.	

Dougherty County (Continued).
Albany Well No. 7

725 - 735 50 min. sample taken at 8 P. M.
735 - 745 55 min. sample taken at 9.05 P.M.
745 - 755 60 min. sample taken at 10:05 P.M. Shut down pump
20 min. Changed rods at 11:45 P.M.
755 - 765 Sample at 12:30 P. M. June 17, 1939
765 - 775 Sample at 2:00 A. M.
shut down to change rods.
775 - 785 Sample at 3:45 A. M.
785 - 795 Lots softer
795 - 805 Shelly . Shut down to change rods 6:15 to 6:35 A. M.
800 - 810 Sample at 8:15 A. M. Drilling time 1 hr., 40 min.
817' Kelly down at 9:40 A. M.
817 Rod changed drilling at 9:50 A. M.
810 - 820 Sample at 10:30 A. M. Drilling time 2 hrs., 15 min.
820 - 830 Sample at noon
838 Kelly drilled down to 1:55 P.M. pump off 2:00 P.M.-3:05 PM
838 Rod on--began drilling at 3:05 P.M.
840 Sample at 3:15 P.M. time 2 hrs. 15 min.
836 Began going faster
847 Awful rough cuts faster
840 - 850 Sample at 4:15 P.M. time 1 hr.
854 Slow hard
857 Drilled rough but fast
850 - 860 Sample at 6 P.M.
860 - 870 Sample at 6:50 P.M.
862 - 874 Rough but much easier to drill. Pump down 10 min.
874 -4 Slow had.
875 - 878 Drilling like sand
870 - 880 Sample at 7:35
882 Very soft drilled like gravel
880 - 890 Sample at 8:35 P. M. Kelly down at 8:50 P.M.
890 - 900 Sample at 9:25 P.M. spent 30 min. repairing chain and
putting on rod. Drill time 20 min.
900 Left sand, bit hard rough drilling
900 - 910 Sample at 10 P.M. Drill time 35 min.
900 - 904 Hard rough
904 - 912 Fast, probably sand.
912 - 918 Hard and soft lime and shale? Sand?
918 - 934 Soft probably sand 10:50 P.M. Kelly down 11:10 P.M. off
till 11:30 P.M. drilled 10' in 10 min.
June 18, 1939
934 - 935 Hard shell
935 - 940 Sand 10 min. shut down change rods 12:35 A.M. Sample at
12:35 A. M. Began drill at 1:15 A. M.
940 - 950 Sample at 1:35 A. M.
951 Hard form
954 Soft form
960 Sample at 2:20 A. M.
962 Kelly down stopped at 2:35 A. M. began drilling at 3:00 AM
970 Sample at 3:20 A. M.
971 Hard form
973 Soft form
980 Sample at 4:00 A. M.
984 Stopped drill at 4:10 A. M.

DOUGHERTY COUNTY

(x) Well Log No. 1.

Well No. 1C

Location: City of Albany

Elevation: 196 feet

East of Flint River

Collected by: W. S. Beiser

Total Depth: 650 Feet

Use: Water

Drilled by: Layne-Atlantic Company

Driller: Lee Helmer

Paleontology:

- 53 - 300 Cream colored, fine textured, soft, limestone w/few large fossil fragments.
- 363 - 373 Brown limestone fragments, buff colored, porous limestone fragments, broken shell fragments and considerable clear quartz grains.
- 373 - 394 More than half of sample is medium grained, clear quartz w/small broken fragments and finely ground, buff colored limestone fragments.
- 395 - 401 Similar to above but mostly sand.
- 407 - 432 Mostly coarse grained quartz w/numerous ferruginous nodules, thin shell fragments and fragments of corals.
- 430 Like above sample.
- 470 A large Ostrea sp. may be O. sellaeformis.
- 470 - 490 Clear, angular quartz sand, coarse grained.
- 363 - 490 Hard, coarse grained, sandstone, w/small quartz pebbles, and black pebbles, (Phosphatic). A few shell fragments.
- 363 - 490 Lignitized wood.
- 363 - 490 Numerous specimens of Ostrea sellaeformis (perfect specimens) A piece of large shark's tooth.
- 505 - 511 (Probably) White chert.
- 530 - (core) Hard, dark gray, coarse grained, calcareous, sandstone--slightly glauconitic.
- 511 - 532 Slate-gray w/greenish cast, finely micaceous, silty, shale and gray clay w/line fragments.
- 630 - 650 (Note--has hard rock layers) Brownish gray soft sand and small fragments of lime--black grains throughout.

EXAMINED BY B. W. BLANPIED
ATLANTA, GEORGIA - MARCH, 1937

BWB:esb 7/1/37 (6)

DOUGHERTY COUNTY

(x) Well Log No. 1

Name of Well: Albany No. 6

Date started: 1936

Source of data: Layne Atlantic Company

Completed: 1937

Elevation:

		<u>Began actual drilling 11/17/36</u>	
0	- 20	Feet	Top soil - Dark sand and red sandy clay
20	- 30		Light brown quick sand
30	- 31		Hardpan - sandstone
31	- 35		Pocket - Open stream
35	- 37		Hardpan - Sandstone
37	- 48		Open stream with large pieces hard sandstone-from hen e.g to peck measure.
48	- 51		Soft limestone - very white
51	- 65		Very hard rock
65	- 85		Limestone - A little soft
85	- 105		Very hard limestone
105	- 114		Medium soft limestone
114	- 136		Hard rock
136	- 138		Soft limestone
			12-10-36
			12-17-36
			12-24-36
138	- 240		Hard rock
240	- 268		Limerock with streaks of dark gray sand
268	- 298		Light gray sandstone
320			12-31-36
298	- 323		Soft fine sand
323	- 329		Soft sandstone
329	- 344		Hard rock with soft limestone streaks
344	- 359		Soft limestone with streaks of light gray sand
362			1-4-37
359	- 363		Dam hard rock
363	- 373		Shell and gray sand mixed, packed very tightly
373	- 374		Hard rock
373	- 394		Light gray sand with some shell, packed very tightly would not wash
394	- 395		Hard rock
395			1-6-37
395	- 401		Soft limestone
401	- 403		Hard rock
403	- 407		Soft limestone
407	- 432		Light gray sand - Packed tight
432	- 453		Soft blue sandy clay
453	- 454		Hard sandstone
454	- 490		Rock and blue marl streaked
490	- 505		Hard rock with streaks of gray sand
505	- 511		Very hard rock
516	-		1-15-37
			1-18-37
511	- 532		Gray sandstone and blue sandy marl, mixed
532			1-19-37
532	- 540		Blue sandy clay

Dougherty County (Continued)
Albany Well No. 7

990 Sample at 5:10 A. M.
1000 Sample at 5:35 A. M.
1006 Stopped drill at 5:50 A. M.
1010 Sample at 6:50 A. M.
1020 Sample at 7:25 A. M.
1026 Down 10 min.
1027 Going slower, limestone or sandstone
1030 Sample at 8:25 A. M.
1036 Drilling much faster (Sand)
1040 Sample at 8:45 A. M.
1050 Sample at 9:00 A. M.
1050 Circulated from 9 A. M. to 1 P. M. (Last sample out a dark gray shale, decided not to core).

1027 - 1059 Blue shale
1050 - Began drilling 3:40 P. M.
1059-1061 Hard rough shell
1061-1065 Sand
1065-1067 Hard limestone streaks in sand
1067 Kelly down 4:15 P. M. pump off 4:20 to 5 P. M.
1069-1078 Drills like gravel
1078-1080 Rock streak sand
1080-1091 Sand kelly down 5:45 P. M. Pump down from 6:15 to 6:30/
1091-1092 Hard rock
1092-1100 Sand

Stopped drilling at 7:10 P. M. and circulated until 10:45 P. M. to condition hole for coring. All cuttings cleaned from hole.

1100-1110 Cut core #2. Recovered 4 ft. 9" of blue marly shale. (June 19, 1939).
1110-1120 Cut core #3 12 Noon-1 P. M. Rec. 10 ft. blue marly shale, sandy (June 19)
1120-1130 Core #4, 4:40 P. M. 7:15 P. M. (June 19). Rec. 10 ft. blue marly shale but considerably harder.

June 20-
1130-1140 Core #5 Cut time 4½ hrs. Recovered 7 ft. blue marly very sandy shale fetid odor in bottom part of core.
1140-1150 Core #6- Cut time 3 hrs. Recovered 10 ft. dark gray black marly shale, scarcely and sand.

June 21-
1150-1160 Core #7- Cut time 4½ hrs., Recovered 7 ft. dark gray black marly shale, no sand apparent.
1160-1170 Core #8- began to cut at 4:30 A. M. and 8 A. M. time 3½ hrs. Recovered 10 ft. shale, dark gray, marly, no sand, hard compact.

1170-1180 Core #9- Recovered 8 ft. Cut time 3 hrs. Shale as above.
1180-1200 Core #10-Recovered 15 ft. cut time 6½ hrs.

Bottom of 12 inch test hole.

Dougherty County

PALEONTOLOGY

Albany Well No 7
Albany, Georgia

August 18, 1939

- 27-30-Ctgs: Hard white limestone; coarse sand and pebbles. Echinoid spines.
30-33-Ctgs: Same
33-36-Ctgs: Same and dark brown clay
36-39-Ctgs: Same
39-42-Ctgs: Same
42-48-Ctgs: Hard cream-colored limestone; sand and a few quartz pebbles.
Shell fragments. Pecten sp. fragments.
Lepidocyclus sp. fragments.
Ocala Limestone.
- 48-51-Ctgs: Same with Lepidocyclus and Operculina fragments.
Bryozoa; echinoid fragments.
51-54-Ctgs: Same with sand and brown clay.
Camerina sp. fragments. Echinoid fragments
Operculina cf. mariannensis.
Ocala Limestone
- 54-57-Ctgs: Same with carbonaceous material.
57-60-Ctgs: Hard cream-colored limestone with a small amount of glauconite
and coarse-grained sand.
Operculina sp.
- 60-63-Ctgs: Same
63-66-Ctgs: Same - Bryozoa
66-68-Ctgs: Same
Forams.
- 68-70-Ctgs: Same
70-72-Ctgs: Same
72-74-Ctgs: Same
74-76-Ctgs: Same Operculina sp.
76-78-Ctgs: Same
78-80-Ctgs: Same
Byozoa
- 80-82-Ctgs: Same
82-84-Ctgs: Same
Lepidocyclus sp.
- 84-86-Ctgs: Same and brown clay
88-91-Ctgs: Same. Bryozoa - Operculina sp. Lepidocyclus sp.
91-94-Ctgs: Same
94-97-Ctgs: Same
97-112-Ctgs: Same
Small echinoids; Lepidocyclus sp. - Bryozoa.
- 112-115-Ctgs: Hard cream-colored fossiliferous limestone and sand
115-118-Ctgs: Same. Lepidocyclus and Operculina
118-121-Ctgs: Same
Small Echinoids. Operculina sp.
- 121-124-Ctgs: Same
124-127-Ctgs: Same
128- Ctgs: Hard cream-colored limestone; Echinoid spines.
128-131-Ctgs: Same and pink clay; coarse sand

Dougherty County (Continued)

- 131-134-Ctgs: Same
Lepidocyclus sp.
- 134-137-Ctgs: Cream and drab-colored hard limestone with Lepidocyclus.
140-143-Ctgs: Same
Lepidocyclus sp.
- 143-146-Ctgs: Same
Small Echinoid
- 146-149-Ctgs: Same with pink clay
Echinoid fragments, shell fragments.
- 149-152-Ctgs: Cream-colored and pink tinged limestone
Small Echinoids.
- 152-155-Ctgs: Same
Lepidocyclus sp.
- 155-158-Ctgs: Drab-colored clay and cream-colored hard limestone.
158-161-Ctgs: Same and small Echinoids. Fossils.
Coarse sand
Lepidocyclus fragments.
Operculina cf. mariannensis
- 161-164-Ctgs: Same. Pecten sp. fragments.
164-167-Ctgs: Same. Small Echinoids,
Lepidocyclus sp.
- 167-170-Ctgs: Same
170-173-Ctgs: Cream-colored hard fossiliferous limestone with more sand
Lepidocyclus fragments.
- 173-176-Ctgs: Same
176-179-Ctgs: Same
179-182-Ctgs: Same
182-185-Ctgs: Same
185-188-Ctgs: Same
188-191-Ctgs: Same
191-194-Ctgs: Same
194-197-Ctgs: Same
- 197-200-Ctgs: White to cream-colored hard limestone; fossil sand and small
200-203-Ctgs: Same Echinoids.
Pecten sp. fragments.
- 203-206-Ctgs: Same and gray sandy limestone.
206-209-Ctgs: Drab-colored sandy glauconitic lime; cream-colored limestone;
sand. Lepidocyclus sp.
- 209-212-Ctgs: Hard cream-colored limestone and light gray hard sandy slightly
glauconitic limestone; sandy Bryozoa; Echinoid frag-
212-215-Ctgs: Same. Small brachiopode; Bryozoa. ments.
Shell fragments.
- 215-218-Ctgs: Same
218-221-Ctgs: Same
221-224-Ctgs: Hard white and cream-colored limestone and sand. Bryozoa.
224-227-Ctgs: Same. Pecten sp. fragments.
227-230-Ctgs: Same. Bryozoa.

Dougherty County (Continued)

- 355-376-Core: Bottom - Drab-colored coarse-grained sandy slightly calcareous clay.
Bentonite?
Quartz grains sub-angular.
- 376-418-Core: ~~Top~~ Drab colored calcareous clay with sand and pebbles.
A few forams. From above?
Shell fragments.
- 376-418-Core - Bottom: Drab-colored and light green non-calcareous sandy clay.
- 418-464-Core - Top: Indurated drab-colored sandy glauconitic limestone.
Shell fragments. Chert pebbles.
- 418-464-Core -Middle: Coarse-grained drab-colored sandy limestone with grains of chert.
- 418-464-Core -Bottom: Yellowish, coarse-grained sandy clay with asphaltic material in portions of sample.
- 460-470-Ctgs: Light gray, sandy limestone; very coarse sub-angular sand; chert pebbles. Shark teeth.
Shell fragments.
- 470-480-Ctgs: Same. Ostrea sp. fragments.
- 464-487-Core-Top: Indurated dark brown glauconitic sandy limestone and abundant fossil fragments too weathered for recognition.
Ostracods.
A few Forams.

WILCOX?

464-487-Core:-Middle-Same

464-487-Core:-Bottom-Medium gray micaceous, non-calcareous clay with small amount of sandy carbonaceous material.

PROBABLY WILCOX:

- 487-510-Core: Top-Medium gray micaceous sandy marl, fossiliferous.
Ostracods; Echinoid spines abundant.
Gumbelina cf. wilcoxensis Globorotalia wilcoxensis
Triplasia cf. wilcoxensis Virgulina cf. wilcoxensis.
- 510-520-Ctgs: Medium gray fine-grained micaceous sandstone; material from
- 500-507-Ctgs: Same and coarse glauconite and sand. above.
- 507-517-Ctgs: Same.
- 517-532-Ctgs: Same.
- 532-552-Ctgs: Medium gray fine-grained glauconitic, micaceous slightly calcareous sand and material from above.
- 575-591-Core: Medium gray fine-grained non-calcareous sandstone.
washed residue has a salt and pepper appearance. Orange colored quartz.
No Forams, noted.

WILCOX

- 585-590-Ctgs: Same and fragments of hard glauconitic sandstone.
No Forams, noted
- 590-595-Ctgs: Same and coarse glauconite.
- 595-600-Ctgs: Same. Pyrite.
- 600-605-Ctgs: Sand. Glauconite, gray glauconitic clay, pyrites; hard light gray glauconitic sandy limestone.
- 605-610-Ctgs: Same.

Dougherty County (Continued)

Ripley?

- 912-925-Ctgs: Light gray sandy marl and sand.
Shell fragments.
- 925-926-Ctgs: Light gray to medium-grained sand and sandy limestone.
Shell fragments. Pyrite and glauconite.
- 926-950-Ctgs: Same with mica.
A few Forams.
- 950-960-Ctgs: Same.
A few forams.
- 960-970-Ctgs: Same. *Vaginulina* so. fragments.
Ostracods

RIPLEY

- 970-977-Ctgs: Light to medium-gray sand with mica; glauconite and pyrite.
Globotruncata arca
Other Forams

RIPLEY:

- 977-983-Ctgs: Light gray medium to coarse-grained sand with mica and glauconite.
Pyrite
Ostracods
Globotruncata arca
Other Forams.

RIPLEY:

- 983-987-Ctgs: Light gray medium-grained sand with mica and glauconite.
Shell fragments.
Ostracods
A few Forams.

RIPLEY:

- 997-1000-Ctgs: Light to gray medium-grained to coarse sand with mica and glauconite.
Pyrite
Ostracods
Shell fragments
Ventilabrella caseyae
Globotruncata arca
Vaginulina simonssi
Other Forams.

RIPLEY:

- 1000-1100-Ctgs: Light to medium gray micaceous, glauconitic sand.
Forams

RIPLEY:

- 1100-1110-Ctgs: Medium gray fine-grained micaceous, calcareous sandstone with
Aragonite prisms
glauconite.
A few Forams

RIPLEY:

- 1110-1120-Ctgs: Light gray medium-grained glauconite micaceous sand.
Aragonite prisms
Ostracods
Grinoid stem
Globotruncata arca
Other Forams

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EXAMINED BY B. W. BLANPIED
ATLANTA, GEORGIA - MARCH, 1937

BWB:esb 7/1/37 (6)

LOG OF WELL # 7, DRILLED FOR THE CITY OF ALBANY,
 GEORGIA, LOCATED AT THE INTERSECTION OF FRONT
 AND FLINT STREETS - COMPLETED 1939.
 (FIRST HOLE)

DESCRIPTION	From	To
	(Feet)	
Earth and cinder fill	0	- 6
Soft earth	6	- 26
Limestone - hard	26	- 38
Soft limerock	38	- 46
Limestone	46	- 52
Hard rock	52	- 54
Soft limerock	54	- 76
Tight packed sand	76	- 89
Soft limerock	89	-107
Limestone	107	-111
Soft limerock	111	-128
Hard limestone	128	-131
Med. soft limestone	131	-140
Hard solid limestone	140	-142
Very soft limerock	142	-152
Hard limestone	152	-154
Streaked - hard and soft limestone	154	-163
Shells - hard and soft limestone	163	-170
Soft limestone	170	-174
Very hard rock	174	-176
Soft limestone	176	-179
Hard rock	179	-180
Soft limerock	180	-212
Hard rock	212	-214
Soft limerock	214	-252
Hard limestone	252	-254
Hard rough limestone	254	-255
Soft limerock	255	-259
Very rough rock	259	-261
Soft limerock	261	-276
Hard rock	276	-279
Soft limerock	279	-284
Hard rough rock	284	-289
Hard and soft limestone	289	-297
Limestone	297	-305
Soft blue shale	305	-336
Hard rock	336	-337
Soft sand	337	-340
(Core log - 340 to 510'-6" after Munyan)		
Fine calcareous sand	340	355'-2"
Sand-marly, 2' of limestone hard silicified at base	355-2	376±2"
2/3 of core consists of med. grained angular sand base.		
1/3 is of green clay. interlaminated with white (calca- reous) clay	376'-2"	418'-4"

Sheet #2 LOG OF WELL #7 - LOCATED AT THE INTERSECTION OF
FRONT AND FLINT STREETS, CITY OF ALBANY.

Description	From (feet)	To
Clayey sand	418'-4"	420'-5"
Hard compact homegenous sandstone, suitable for casing seat	420'-5"	421'-7"
Sand	421'-7"	424'-2"
Hard sandstone	424'-2"	425'-4"
Coarse conglomeratic loose sand, iron stained.		
Obviously bearing H2O	425-4	- 464
Top of core is hard, fine grained limey sandstone.		
Just below this is a dark gray soft and hard marl with finely broken shell fragments	464	- 487
Continuation of this marl, few harder sandier beds near bottom	487	- 510-6"
Coarse sand	537	- 565
Fine sand	565	- 575
Fine marly sand	575	- 591
Coarse sand	591	- 645
Limey sand	645	- 660
Hard limestone	660	- 760
Coarse water sand	760	- 770
Sand and limerock	770	- 810
Light gray limestone	810	- 835
Shale	835	- 840
Light gray limestone	840	- 857
Coarse water sand	857	- 900
Fine shaley sand	900	- 912
Coarse water sand	912	- 925
Fine shaley sand	925	- 950
Coarse water sand	950	- 978
White limestone	978	- 1023
Sand	1023	- 1027
Shale - Dark blueish gray, marly, somewhat sandy near center	1027	- 1202

Bottom of pipe at 1027' ^{ave} Listed below is screen and pipe settings from bottom up

0		10		20 pipe
5	5" pipe	132	292	
15	15" screen	162	302	10 screen
20				20 pipe
30	10" pipe	202	322	
30	15" screen	212	332	10 screen
45				20 pipe
54	9' pipe	232	352	
54	25 screen	242	362	10 screen
79				20 pipe
107	28 pipe	262	372	
107	15 screen	272	382	10 screen
122				

Sheet #3 LOG OF WELL #7 - LOCATED AT THE INETSECTION OF
FRONT AND FLINT STREETS, CITY OF ALBANY.

SCREE N AND PIPE SETTING CONTINUED

382 10 pipe
392 10 screen
402 10 pipe
412 10 screen
422 10 pipe
432 10 screen
442 25 pipe
467 10 screen
477 10 pipe (4" short)
487 10 screen
497 40 pipe
537 30 pipe
567 15 screen
582 24 screen
602 30 pipe (4" over)
640