

5m40

Preliminary Report on

E. B. LaRue¹
 #1 Jelks-Rogers
 Liberty Co.: GGS #363

<u>Formation:</u>	<u>Summary:</u>	<u>Depth in Feet:</u>
Undifferentiated Pliocene - Recent (160')	-----	0 - 160 (±)
Miocene (230')	-----	160 - 390 (±)
Probable Hawthorne (185')	-----	160 - 345 (±)
Possible Tampa(?) (45')	-----	345 - 390 (±)
Oligocene (Suwannee) (40')	-----	390 - 430 (±)
Upper Eocene (Ocala) (670')	-----	430 - 1100 (±)
Middle Eocene (Claiborne) (585')	-----	1100 - 1685 (±)
Upper Claiborne (McBean) (330')	-----	1100 - 1430 (±)
Middle Claiborne (Lisbon Equivalent) (255')	-----	1430 - 1685 (±)
Lower Eocene (Undifferentiated Wilcox) (215')	-----	1685 - 1900 (±)
Paleocene (Midway) (390')	-----	1900 - 2290 (±)
Upper Cretaceous (1695')	-----	2290 - 3985 (±)
Undifferentiated Navarro-Taylor-Austin (1180')	-----	2290 - 3470 (±)
Eutaw (145')	-----	3470 - 3615 (±)
Tuscaloosa (370')	-----	3615 - 3985 (±) 4130
Upper Tuscaloosa (255')	-----	3615 - 3870 (±)
Middle Tuscaloosa (Possible Eagle Ford Equivalent) (95')	-----	3870 - 3965 (±)
Lower Tuscaloosa (20')	-----	3965 - 3985 (±)
Lower Cretaceous (?) (Possible Vick ?) (265')	-----	4130 3985 - 4250
Basement Complex (4')	-----	4250 - 4254 (+)

Remarks:

1. The above interpretation places the Tuscaloosa formation ' top at 3615', at the same time realizing that other workers prefer to place it at the depth, 3985' (±).
2. The over-all thickness of the Tuscaloosa formation, assuming that the above interpretation is correct, is thinner than is normally the case in Georgia. Such thinning is probably caused by the underlying flexure in the basement complex.
3. The sand at the base of the Tuscaloosa formation ("Lower Tuscaloosa") might be interpreted as the equivalent of the oil-producing horizon in the oil discovery well situated near Brewton, Ala.

Smith
 7/10/56

UNPUBLISHED RECORDS
 SUBJECT TO REVISION

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

No. GGS 363

OTHER NOS. _____

WELL LOG

State Georgia County Liberty Subarea _____Owner Jelks Rogers, Well No. 1

Location _____

Drilled by E. B. LaRue Address _____Date Nov., 1953 Casing diam. _____ Land-surf. alt. 26 feetSource of data Well Cuttings

(Enter type of well, perforations, yield, and drawdown at end of log)

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Sand, fine- to coarse-grained, "Rice"	40	40
	Sand, fine- to medium-grained, finely-phosphatic	40	80
	Sand, coarse-grained, "Rice"	50	130
	Sand, fine- to coarse-grained, "Rice", with some dark gray, sandy, lignitic clay, with macro-shells and vertebrate remains	30	160
	Clay, mostly pale green, somewhat micaceous, phosphatic, sandy	120	280
	Rock, or brown limestone, light brown, sandy, phosphatic, dolomitic	45	325
	Clay, pale green, sandy, phosphatic, with some fine- to coarse-grained sand, with fragments of above lithology (latter, "cave")	20	345
	Limestone, dense, white, sandy, shell-bearing, phosphatic	25	370
	Sand, mostly fine- to coarse-grained, phosphatic, and some pale green, sandy clay	20	390
	Limestone, nodular, re-crystallized, sparsely-fossiliferous	385	775
	Limestone, cream, somewhat softer, more porous, fossiliferous	325	1100
	Limestone, rather dense, gray to white, sandy, finely-glaucinitic, gypsiferous, somewhat dolomitic and fossiliferous, with some fine- to medium-grained sand, and brown, saccharoidal, dolomitic rock	220	1320
	Limestone, rather dense, gray to white, sandy, finely-glaucinitic, gypsiferous, somewhat dolomitic and fossiliferous, with some fine- to medium-grained sand, and		

RECORD BY S. M. Herrick DATE _____SHEET 1 OF 1

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State Georgia County Liberty Subarea _____Owner Jelks-Rogers, Well No. 1

Location _____

Drilled by E. B. LaRue Address _____Date Nov., 1953 Casing diam. _____ Land-surf. alt. 26 feetSource of data Well Cuttings

(Enter type of well, perforations, yield, and drawdown at end of log)

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	brown, saccharoidal, dolomitic rock, with abundant gray to light brown chert	110	1430
	Limestone, coarsely-glauconitic, chert-bearing, yielding at depth to gray, fossiliferous, somewhat indurated, glauconitic marl	255	1685
	Sand, limey, or limestone, sandy, abundantly-glauconitic	25	1710
	Sand, limey, or limestone, sandy, abundantly-glauconitic, with thin (interbedded) stringers of dark gray, carbonaceous clay	70	1780
	Limestone, white, finely to coarsely-glauconitic	60	1840
	Limestone, glauconitic, interbedded with micaceous, glauconitic clay	60	1900
	Limestone, crystalline, sandy, coarsely and abundantly-glauconitic	30	1930
	Limestone, gray, sandy, glauconitic, interbedded with stringers of gray, fossiliferous, glauconitic marl	165	2095
	Limestone, gray, fossiliferous, somewhat sandy	195	2290
	Marl, gray, micaceous, chalky, fossiliferous, becoming sandier with increased depth	1180	3470
	Sand, fine- to medium-grained, limey, indurated (cemented), phosphatic, fossiliferous, with macro-shells and vertebrated remains interbedded with thin stringers of gray, micaceous, somewhat carbonaceous clay	145	3615
	Sand, predominately fine- to coarse-grained, angular, arkosic, interbedded with minor amounts of pale green to red to purple, sandy, micaceous clay	255	3870
	Sand, fine to coarse-grained, arkosic, angular, interbedded with thin stringers of dark gray to black, finely		

RECORD BY S. M. Herrick DATE _____SHEET 2 OF 4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION35m40
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OTHER Nos. _____

WELL LOG

State Georgia County Liberty Subarea _____Owner Jelks-Rogers, Well No. 1

Location _____

Drilled by E. B. LaRue Address _____Date Nov., 1953 Casing diam. _____ Land-surf. alt. 26 feetSource of data Well Cuttings

(Enter type of well, perforations, yield, and drawdown at end of log)

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	micaceous, ("speckled"), carbonaceous, fissile clay, or shale	95	3965
	Sand, fine- to coarse-grained, finely-glauconitic, indurated	20	3985
	Sand, predominately fine- to coarse-grained, highly-arkosic, & micaceous, interbedded with relatively thin stringers of pale green to rust to red to purple (mottled), micaceous, sandy clays having a greasy, blocky appearance	265	4250
	Rock, granitoid	4	4254(+)
	<u>Summary:</u>		
	<u>Formation:</u>		
	Undifferentiated Pliocene - Recent (160') from 0 to 160 feet(+)		
	Miocene (230') from 160 to 390 feet(+)		
	Probable Hawthorne (185') from 160 to 345 feet(+)		
	Probable Tampa? (45') from 345 to 390 feet(+)		
	Oligocene (Suwannee) (40') from 390 to 430 feet(+)		
	Upper Eocene (Ocala) (670') from 430 to 1100 feet(+)		
	Middle Eocene (Claiborne) (585') from 1100 to 1685 feet(+)		
	Upper Claiborne (McBean) (330') from 1100 to 1430 feet(+)		
	Middle Claiborne (Lisbon Equivalent) (255') from 1430 to 1685 feet(+)		
	Lower Eocene (Undifferentiated Wilcox) (215') from 1685 to 1900 feet(+)		
	Paleocene (Midway) (390') from 1900 to 2290 feet(+)		

RECORD BY S. M. Herrick

DATE _____

SHEET 3 OF 4

8/26/54

CGS # 363
 Liberty Co.
 Elev. 26' (D.F.)
 Logged by SMH

Description:

Depth
 in Feet:

Fine to coarse-grained sand with occasional fragments of gray-colored, sandy clay -----	0 - 40
Predominately fine-grained sand (or sandy clay) with some gray-colored clay -----	40 - 60
Do.; sand, finely-phosphatic -----	60 - 80
Mostly coarse-grained, "rice" sand with some gray-colored, silty clay in bottom 20-feet -----	80 - 120
Do.; plus frequent fragments of pale-green-colored, sandy clay carrying macro-shells -----	120 - 140
Do.; plus scattered fragments of light-brown-colored sparsely-phosphatic, indurated (limey) sand -----	140 - 160
Predominately dark-green-colored, tough, blocky, sandy clay -----	160 - 300
First appearance of light-brown-colored, sandy, phosphatic dolomitic rock -----	280 - 300
Chiefly light-brown-colored, sandy, phosphatic, dolomitic rock -----	300 - 340
First appearance of dense, white, sandy, phosphatic limestone -----	320 - 340
Predominately dense, white, sandy, phosphatic limestone carrying frequent macro-shells and occasional echinoid and bryozoan remains -----	340 - 420
First appearance of nodular, re-crystallized limestone. <u>Rot. byramensis</u> , <u>Cibicides</u> sp., <u>Nonionella hantkeni</u> , var. <u>byramensis</u> -----	400 - 420
Predominately nodular, re-crystallized limestone ---	420 - 460
<u>Discocyclus</u> sp.* -----	440 - 460
Chiefly dense, white, re-crystallized, saccharoidal, fossiliferous limestone carrying macro-shells, abundant bryozoan remains, and XXXXXX occasional foraminifera. <u>Cameringa</u> sp. -----	460 - 480
Same lithology as 460 - 480 -----	480 - 520
<u>Gyp. globula</u> , <u>Operc. ocalanus</u> -----	480 - 500
<u>Discocyclus nassauensis</u> , common; <u>Argyrotheca</u> sp. --	500 - 520
Do.; limestone somewhat denser and more calcitized than above -----	520 - 580
<u>Cam. jacksonensis</u> , <u>Discocyclus citrensis</u> , <u>Cam. cf. vanderstoki</u> , and <u>Gyp. globula</u> , common ("Orbitoid Zone") -----	540 - 560
Dense, much-calcitized limestone carrying frequent bryozoan remains and some small foraminifera -----	580 - 640
<u>Cib. jackson danvillensis</u> , <u>Cib. cf. westi</u> , <u>Cib. howei</u> ?, <u>Gyr. soldanii</u> , var. -----	600 - 620
Predominately granular, much-calcitized limestone carrying frequent bryozoan and echinoid remains ----	640 - 920

* Re-worked Eocene; specimens gray and water-worn.

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GGG # 363 Cont'd.

Description:

Depth
in Feet:

Do.; plus frequent fragments of pale-green-colored, finely-glauconitic clay. Cib. howei?,
Siph. claibornensis, Lep. (Polylep.) antillea (?)-- 680 - 700
Plus scattered fragments of glauconitic
limestone ----- 680 - 720
Mostly dense, cream-colored, re-crystallized
limestone ----- 920 - 1000
Predominately dense, light-gray-colored to white,
calcitized limestone. Lep. (Polylep.) antillea (?),
Camerina sp. ----- 1000 - 1020 ()

(See previous ~~log~~ report for remainder of log)

Formation:

Summary:

(120) Undifferentiated Pliocene - Recent ----- 0 - 120
(260) " Miocene ----- 120 - 380
(85) Oligocene (Suwannee) ----- 380 - 465
(130) Jackson (Ocala) ----- 465 - 505 1010
Claiborne ----- 505 - 1520
Wilcox ----- 1520 - 1900
etc.

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