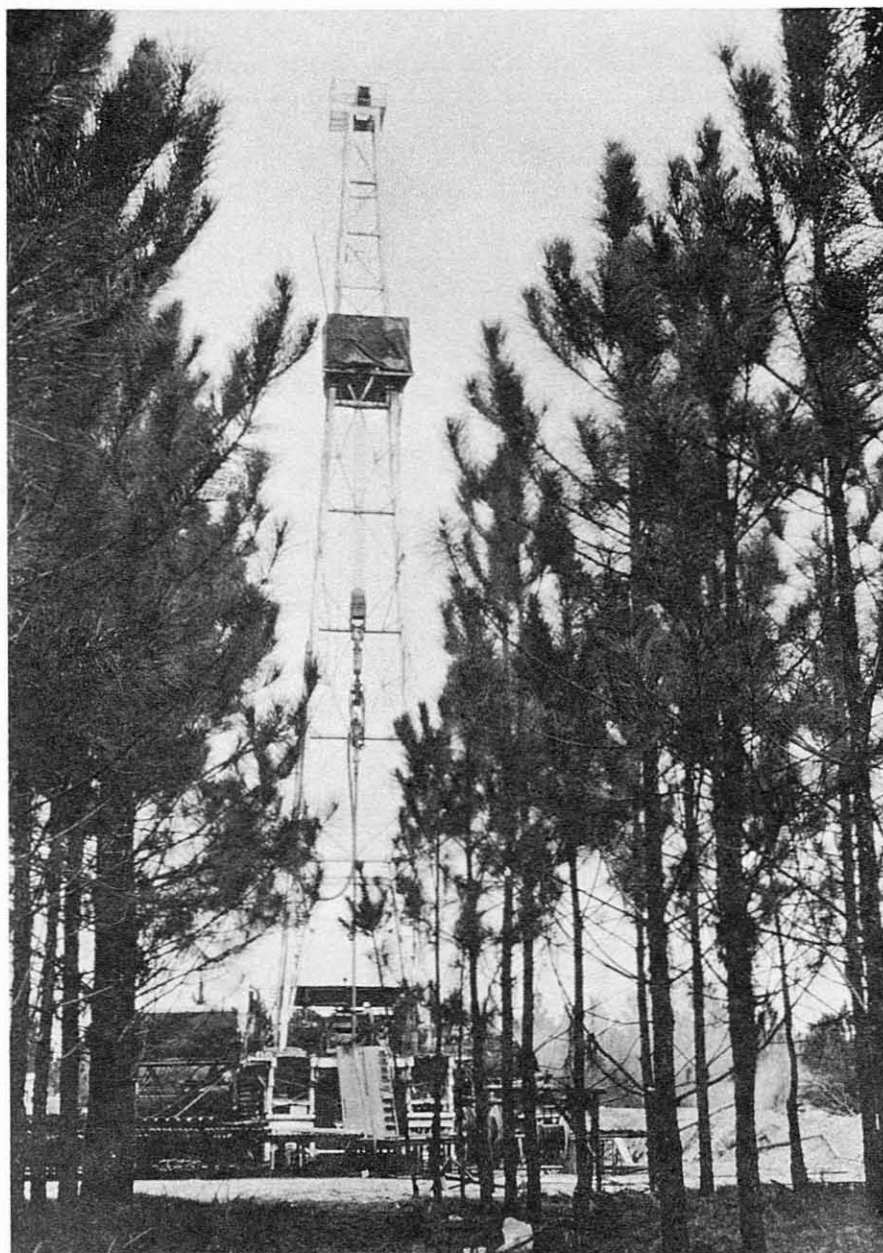


# PETROLEUM EXPLORATION IN GEORGIA

Compiled by William E. Marsalis



THE GEOLOGICAL SURVEY OF GEORGIA  
DEPARTMENT OF MINES, MINING AND GEOLOGY  
JESSE H. AUVIL JR., DIRECTOR

ATLANTA      NOVEMBER 1970

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## INTRODUCTION

This information circular describes the oil and gas tests drilled in Georgia from 1903 to the present time. Most of the data have been compiled from the files of the Department of Mines, Mining and Geology, and from Geological Survey of Georgia Bulletin No. 70, by Dr. S. M. Herrick.

All of the oil tests have been arranged chronologically by counties and are listed with the formational tops if available. The relative age of these formations can be found in Figure 3. The following abbreviations have been used:

G.G.S. No.	The number assigned to cuttings which are filed in the sample library of the Department of Mines, Mining and Geology.
D.P. No.	Drill permit number.
L.L.	Land lot. Georgia does not use the township, range and section location system.
L.D.	Land district.
G.M.D.	Georgia Militia District.
G.L.	Ground level.
D.F.	Drill floor.

For the reader's information, any operator drilling for hydrocarbons in the state of Georgia is required by law to obtain a drilling permit and to post a bond before drilling commences. The regulations for drilling and seismic exploration, along with necessary forms, may be found within the back pocket.

As of August, 1970, 141 oil tests have been drilled in Georgia with the peak drilling period being from 1950-1960 (figure 1). The deepest penetration has been in Seminole County by the C. E. Prince (J. R. Sealy) - Spindle Top No. 3 which bottomed in a shale at a total depth of 7620 ft. (Plate I). The average well depth has been 2939 ft. (figure 2).

The most recent drilling activity has been the Pan American Petroleum Corp. - Union Camp Paper Co. well in Glynn County. In addition, there has been some renewed seismic interest, both on shore and offshore, in southeast Georgia (Table 1).

Although none of the wells have yielded commercial quantities of oil or gas, there have been some interesting shows, especially in Seminole County. Even though all of the tests have proved unsuccessful, the State of Georgia shouldn't be ignored. With the continuing exploration by some of the major petroleum companies there is yet hope for success in this area.

## APPLING COUNTY

Operator: Felsenthal and Weatherford  
 Landowner: W.E. Bradley No. 1  
 Location: 500 ft. N. and 300 ft. W. of  
 S.W. ¼, W. ½ of L.L. 522,  
 L.D. 2

G.G.S. No. 148 D.P. No. 7  
 Elevation: 219 ft. G.L.  
 Total Depth: 4106 ft.  
 Completed: July 29, 1947

Description	Depth
Miocene	0- 520
Oligocene	520- 650
U. Eocene (Ocala Ls.)	650- 920
In M. Eocene (Lisbon Fm.)	920-1530
In M. Eocene (Tallahatta Fm.)	1530-1690
L. Eocene & Paleocene	1690-2095
U. Cretaceous (post-Tuscaloosa Fm.)	2095-3050
U. Cretaceous (Tuscaloosa Fm.)	3050-3960
L. Cretaceous ?	3960-4075
Basement complex	4075-4106

Remarks: Electric log and samples 0-4098 ft. Formational tops by  
 Dr. S. M. Herrick.

## ATKINSON COUNTY

Operator: Sun Oil Company  
 Landowner: Doster & Ladson No. 1  
 Location: 1650 ft. N. and 660 ft. E.  
 of S.W. corner of L.L. 71,  
 L.D. 7

G.G.S. No. 107 D.P. No.1  
 Elevation: 217 ft. G.L.  
 Total Depth: 4296 ft.  
 Completed: January 30, 1945

Description	Depth
No samples	0- 90
Miocene	90- 260
Oligocene	260- 390
U. Eocene (Ocala Ls.)	390- 780
M. Eocene (Lisbon Fm.)	780-1290
M. Eocene (Tallahatta Fm.)	1290-1480
L. Eocene (Wilcox Gp.)	1480-1650
Paleocene (Clayton Fm.)	1650-1804
U. Cretaceous (Navarro Age)	1804-2447
U. Cretaceous (Taylor Age)	2447-2798
U. Cretaceous (Austin Age)	2798-3135
U. Cretaceous (U. Atkinson Fm.)	3135-3723
U. Cretaceous (L. Atkinson Fm.)	3723-3870
L. Cretaceous (Comanche series)	3870-4220
Basement complex	4220-4296



Remarks: Electric log, seismic survey, lithologic description, and samples 90-4260 ft. Petrographic analyses of samples 4279-4281.5 ft. Water analyses from 3261-3276 ft., 3454-3618 ft., and 3959-4296 ft. Formational tops from 0-1804 ft. by Dr. S. M. Herrick and from 1804-4296 ft. by Mrs. Esther R. Applin.

#### BEN HILL COUNTY

Operator:		G.G.S. No.	D.P. No.
Landowner:		Elevation:	140 ft. G. L.
Location:	9 mi. N.W. of Fitzgerald, Ga.	Total Depth:	830 ft.
		Completed:	1919

#### BRANTLEY COUNTY

Operator:	Beddingfield, Fallin and Harris	G.G.S. No. 171	D.P. No. 3
Landowner:	Timberlands No. 1	Elevation:	66 ft. G. L.
Location:	150 ft. N. of Nahunta to Jesup Hwy., 600 ft. W. of E. line of L.L. 92, L.D. 2	Total Depth:	920 ft.
		Completed:	September 10, 1946

Remarks: Samples 240-790 ft.

#### BRANTLEY COUNTY

Operator:	Humble Oil & Refining Co.	G.G.S. No. 720	D.P. No. 63
Landowner:	W. F. Hellemn No. ST-1	Elevation:	42 ft. G.L.
Location:	From the S.W. corner of L.L. 95, L.D. 2, go S.E. ly 2590 ft. along the S.W. line of L.L. 95; thence at right angles, N.E. ly 2000 ft.	Total Depth:	4512 ft.
		Completed:	March 20, 1961

Description	Depth
Pleistocene-Recent	0- 40
Miocene	40- 520
Oligocene	520- 560
U. Eocene (Ocala Ls.)	560- 835*
M. Eocene (Claiborne Gp.)	835-1537**
L. Eocene	1537-2198
No samples	1200-2200
Paleocene	2200-2470*
In Paleocene	2198***-2470
U. Cretaceous (Lawson Ls.)	2470-3175*
U. Cretaceous (Taylor Age)	3175-3680
U. Cretaceous (Austin Age)	3680-4093
U. Cretaceous (Eutaw Fm.)	4093-4150
U. Cretaceous (Tuscaloosa Fm.)	4150-4500
U. Cretaceous (L. Tuscaloosa Fm.)	4452-4500
L. Cretaceous (Comanche series)	4500-4512

Remarks: I.E.S. log, microlog, microlaterolog and samples 0-4500 ft. Formational tops by Dr. S. M. Herrick. Top of M. Eocene picked on first appearance of dolomitic rock, hence is questionable.

- \* Point picked from I.E.S. log.
- \*\* Point picked from I.E.S. log as these samples are missing from Georgia Department of Mines samples.
- \*\*\* Point obtained from Humble Oil & Refining Company.

#### BROOKS COUNTY

Operator: D. E. Hughes  
Landowner: E.M. Rogers, Sr. No. 1-B  
Location: 2780 ft. S. and 1445 ft. W.  
of N.E. corner of L.L. 454, L.D. 12

G.G.S. No. 184 D.P. No. 15  
Elevation: 125 ft. G.L.  
Total Depth: 3850 ft.  
Completed: April 13, 1949

Description	Depth
No samples	0- 690
In U. Eocene (Ocala Ls.)	690- 885
M. Eocene (Claiborne Gp.)	885-1385
L. Eocene ? (Wilcox Gp.)	1385-1605
Paleocene (Clayton Fm.)	1605-2230
U. Cretaceous (Navarro Age ? or Taylor Age ?)	2230-2330
U. Cretaceous (Taylor Age)	2330-2550
U. Cretaceous (Austin Age)	2550-3090
U. Cretaceous (U. Atkinson Fm.)	3090-3390
U. Cretaceous (L' Atkinson Fm.)	3390-3620
L. Cretaceous (Comanche series)	3620-3850

Remarks: Electric log and samples 690-3850 ft. Formational tops from 0-2230 ft. by Dr. S. M. Herrick and from 2230-3850 ft. by Mrs. Esther R. Applin.

#### BROOKS COUNTY

Operator: W. R. McGrew and Co.  
Landowner: Gerald M. Livingston No. 1  
Location: 15 mi. N. of Greenville, Florida

G.G.S. No. D.P. No.  
Elevation:  
Total Depth: 292 ft.  
Completed: 1936

#### BURKE COUNTY

Operator: Three Creeks Oil Co.  
Landowner: W. G. Green No. 2  
Location: 2.5 mi. E. of Greens Cut, Ga.

G.G.S. No. 316 D.P. No.  
Elevation: 276 ft. G.L.  
Total Depth: 1033 ft.  
Completed: January 7, 1923

Description	Depth
No samples	0- 128
In M. Eocene (Lisbon Fm.)	128- 320
In U. Cretaceous (Tuscaloosa Fm.)	320- 415
No samples	415-1028
In basement complex	1028-1033

Remarks: Drillers log and samples 128-1033 ft. Formational tops by Dr. S. M. Herrick.

#### BURKE COUNTY

Operator: Three Creeks Oil Co.  
 Landowner: W. G. Green No. 3  
 Location: 2.5 mi. E. of Greens Cut, Ga.

G.G.S. No. 220 D.P. No.  
 Elevation:  
 Total Depth: 1002 ft.  
 Completed: 1923

Description	Depth
Residuum	0- 30
U. Eocene (Barnwell Fm.)	30- 75
M. Eocene (Lisbon Fm.)	75- 195
U. Cretaceous (Tuscaloosa Fm.)	195- 925.7

Remarks: Samples 0-925.7 ft. Formational tops by Dr. S. M. Herrick.

#### CALHOUN COUNTY

Operator: Sowega Mineral Exploration Co., Inc.  
 (C. E. Walters)  
 Landowner: G. W. West No. 1  
 Location: 220 ft. N. and 200 ft. E. from S.W.  
 corner of L.L. 339, L.D. 4

G.G.S. No. 192 D.P. No. 18  
 Elevation: 345 ft. G. L.  
 Total Depth: 5265 ft.  
 Completed: January 13, 1950

Description	Depth
No samples	0- 400
In Paleocene (Clayton Fm.)	400- 560
U. Cretaceous (Navarro Age)	560- 970
U. Cretaceous (Taylor Age)	970-1420
U. Cretaceous (Austin Age)	1420-2100
U. Cretaceous (U. Atkinson Fm.)	2100-2650
U. Cretaceous (L. Atkinson Fm.)	2650-2920
L. Cretaceous (Comanche series)	2920-3850?
U. Triassic ? (Newark Gp. ?)	3850?-5265

Remarks: Electric log and samples 400-5265 ft. Formational tops from 0-560 ft. by Dr. S. M. Herrick and from 560-5265 by Mrs. Esther R. Applin. This well was originally drilled to a depth of 358 ft. by Mr. C. E. Walters.

#### CAMDEN COUNTY

Operator: The California Oil Co.  
 Landowner: John A. Buie No. 1  
 Location: Beginning at the S.W. corner of the John A. Buie tract go 660 ft. N. 19 deg. 15 min. E. along property line; thence 660 ft. S. 70 deg. 45 min. E. This location is 6606.1 ft. S. 64 deg. 54 min. 10 sec. W. of B.M. 78 Bixley Chapel, Camden Co.

G.G.S. No. 153 D.P. No.2  
 Elevation: 52 ft. G.L.  
 Total Depth: 4960 ft.  
 Completed: March 27, 1948

Description	Depth
No samples	0- 150
In Miocene	150- 510
Oligocene	510- 660
U. Eocene (Ocala Ls.)	660-2200
Paleocene (Clayton Fm.)	2200-3190
U. Cretaceous	3190-4350
L. Cretaceous	4350-4770
Basement complex	4770-4960

Remarks: Electric log, lithologic log, core analyses and samples 0-4960 ft. Formational tops by one of the major oil companies.

#### CATOOSA COUNTY

Operator: Art Craig  
 Landowner: F. W. Brown No. 1  
 Location: 1.9 mi. S. of R.R. crossing in Ringgold, Ga.; thence turn left and go E. 0.8 mi. on dirt road; 100 yds S. of road.

G.G.S. No. D.P. No.  
 Elevation:  
 Total Depth: 1625 ft.  
 Completed: June, 1932

Description	Depth
Mississippian (Floyd Sh. & Ft. Payne Ch.)	0- 290
Devonian (Chattanooga Sh.)	290- 305
Silurian (Red Mountain Fm.)	305-1245
Ordovician (Chickamauga Ls.)	1245-1625

Remarks: Formational tops by Dr. G. W. Crickmay.

## CHARLTON COUNTY

Operator: Pennzoil  
 Landowner: O. C. Mizell No. 1  
 Location: 1400 ft. S.W. of U. S. Hwy 1;  
 2700 ft. N.E. of St. Mary's River;  
 6700 ft. S. E. of N. line of Mizell's  
 tract.

G.G.S. No. 876 D.P. No. 72  
 Elevation: 25 ft. G.L.  
 Total Depth: 4577 ft.  
 Completed: August 1, 1963

Description	Depth
No samples	0- 40
In Pliocene ? - Pleistocene	40- 70
Miocene	70- 410
U. Eocene (Ocala Ls.)	410- 780
M. Eocene (Claiborne Gp.)	780-1390
L. Eocene (Oldsmar Ls.)	1390-2050
Paleocene (Clayton Fm.)	2050-2340
U. Cretaceous (Lawson Ls.)	2340-3210
U. Cretaceous (Taylor Age)	3210-3580
U. Cretaceous (Austin Age)	3580-4010
U. Cretaceous (Eutaw Fm. restricted)	4010-4150
U. Cretaceous (Tuscaloosa Fm.)	4150-4410
L. Cretaceous	4410-4490
Basement complex	4490-4577

Remarks: I.E.S. log, gamma ray log, sonic log, formation tester log,  
 Baroid ppm log, sidewall core analyses, water analyses and samples  
 40-4570 ft. Formational tops by Dr. S. M. Herrick.

## CHATHAM COUNTY

Operator: Savannah Oil & Gas. Co.  
 Landowner: Cherokee Hill No. 1  
 Location: 7 mi. N. W. of Savannah, Ga.; W. side  
 of Atlantic Coast Line R. R. and E.  
 side of Travis Air Force Base at Port  
 Wentworth, Ga.

G. G. S. No. 62 D. P. No.  
 Elevation: 50 ft. G. L.  
 Total Depth: 2130 ft.  
 Completed: 1920

Description	Depth
Pleistocene to Recent	0- 42
Miocene	42- 221
No samples	221- 280
In Oligocene	280- 360
U. Eocene (Ocala Ls.)	360- 670
No samples	670- 710
In M. Eocene (Lisbon Fm. equivalent)	710- 950
No samples	950-1010
In M. Eocene (Tallahatta Fm. equivalent)	1010-1360
No samples	1360-1390

In L. Eocene (Wilcox Gp.)	1390-1410
No samples	1410-1430
In Paleocene (Clayton Fm.)	1430-1710
U. Cretaceous (Navarro Age)	1710-2130

Remarks: Lithologic log, water analyses, and samples 10-2130 ft.  
Formational tops by Dr. S. M. Herrick.

#### CLINCH COUNTY

Operator: Winter Hardware Co.	G.G.S. No. 86	D. P. No.
Landowner: J. E. Mathews No. 1	Elevation:	187 ft. G.L.
Location: 5 mi. E. of Stockton, Ga.	Total Depth:	180 ft.
	Completed:	1942

Description	Depth
No samples	0- 10
In Pliocene to Recent	10- 100
Miocene	100- 180

Remarks: Samples 10-180 ft. Formational tops by Dr. S. M. Herrick.

#### CLINCH COUNTY

Operator: J. R. Gay	G.G.S. No.	D.P. No.
Landowner: Dickerson No. 1	Elevation:	135 ft. G. L.
Location: L.L. 273, L.D. 12	Total Depth:	350 ft.
	Completed:	March, 1940

#### CLINCH COUNTY

Operator: J. R. Gay	G.G.S. No. 123	D.P. No.
Landowner: Dickerson No. 2	Elevation:	140 ft. G. L.
Location: S.E. corner of L.L. 273, L.D. 12	Total Depth:	435 ft.
	Completed:	July 15, 1940

Remarks: Lithologic description and samples 390-435 ft.

#### CLINCH COUNTY

Operator: Georgia Resources Co.	G.G.S. No. 124	D.P. No.
Landowner: Gillian No. 1	Elevation:	135 ft.
Location: 17 mi. S. of Homerville, Ga.; center of L.L. 200, L.D. 12	Total Depth:	1507 ft.
	Completed:	July, 1940

Description	Depth
No samples	0- 248
In Miocene	248- 445
Oligocene	445- 520
U. Eocene (Ocala Ls.)	520- 815
No samples	723- 795
M. Eocene (Claiborne Gp.)	815-1507

Remarks: Lithologic description and samples 248-1507 ft. Formational tops by Dr. S. M. Herrick.

#### CLINCH COUNTY

Operator: Sun Oil Co.  
 Landowner: W. J. Barlow No. 1  
 Location: 1478 ft. N. and 1754 ft. E. of S.W.  
 corner of L.L. 373, L.D. 12

G.G.S. No. 144 D.P. No. 5  
 Elevation: 167 ft. G.L.  
 Total Depth: 3848 ft.  
 Completed: March 5, 1947

Description	Depth
Miocene	0- 390
Oligocene	390- 540
U. Eocene (Ocala Ls.)	540- 700
M. Eocene	700-1030
Samples not worked	1030-2100
In M. Eocene	2100-2320
L. Eocene (Salt Mountain Ls.)	2320-2420
Paleocene	2420-2860
U. Cretaceous (Taylor Age)	2860-3060
U. Cretaceous (Austin Age)	3060-3360
U. Cretaceous (U. Atkinson Fm.)	3360-3608
U. Cretaceous (L. Atkinson Fm.)	3608-3788
L. Cretaceous (Comanche series)	3788-3835
L. Ordovician ?	3835-3848

Remarks: Electric log, water analyses and samples 0-3835 ft. Formational tops from 0-1030 by Dr. S. M. Herrick and from 2100-3835 by Mrs. Esther R. Applin.

#### CLINCH COUNTY

Operator: Hunt Oil Co.  
 Landowner: Alice Musgrove No. 1  
 Location: N.W. corner of S.W. ¼ of  
 L.L. 198, L.D. 12

G.G.S. No. 481 D.P. No.  
 Elevation: 148 ft. D.F.  
 Total Depth: 4088 ft.  
 Completed: January 18, 1944

## CLINCH COUNTY

Description	Depth
Samples not worked	0- 390
U. Oligocene (Suwanee Ls.)	390- 470
U. Eocene (U. Ocala Ls.)	470- 620
U. Eocene (L. Ocala Ls.)	620- 730
U. M. Eocene (Avon Park Ls.)	730- 940
L. M. Eocene (Lake City Ls.)	940-1460
L. Eocene (Oldsmar Ls.)	1460- ?
In Paleocene	2370-2820
U. Cretaceous (Lawson Ls.)	2820-2860
U. Cretaceous (Taylor Age)	2860-3080
U. Cretaceous (Austin Age)	3080-3390
U. Cretaceous (U. Atkinson Fm.)	3390-3615
U. Cretaceous (L. Atkinson Fm.)	3615-3825
L. Cretaceous (Comanche series)	3825-3923
L. Ordovician	3923-4088

Remarks: Electric log and samples 0-4088 ft. Formational tops by Mrs. Esther R. Applin.

Operator: Hunt Oil Co.  
 Landowner: Alice Musgrove No. 2  
 Location: 330 ft. S. and 330 ft. E. of N.W.  
 corner of L.L. 485, L.D. 12

G.G.S. No. 167 D.P. No.  
 Elevation: 171 ft. D.F.  
 Total Depth: 3513 ft.  
 Completed: October 3, 1944

Remarks: Electric log and samples 0-3513 ft.

## CLINCH COUNTY

Operator: George J. Marott, et al  
 Landowner: Lem Griffis No. 1  
 Location: Center of L.L.36, L.D. 13

G.G.S. No. 338 D.P. No. 25  
 Elevation: 110 ft. G.L.  
 Total Depth: 4588 ft.  
 Completed: January 22, 1953

Description	Depth
Samples not worked	0-2790
In U. Cretaceous (Lawson Ls. ?)	2790-2810
No samples	2810-2900
In U. Cretaceous (Taylor Age)	2900-3100
No samples	3100-3800
In U. Cretaceous (L. Atkinson Fm.)	3800-3843
Pre-Cretaceous	3843-4588

Remarks: Electric log and samples 0-4540 ft. Formational tops from 2790-4588 ft. by Mrs. Esther R. Applin.



## CLINCH COUNTY

Operator: Wiley P. Ballard, Jr. (Merica Oil Co.)  
 Landowner: Timber Products Co. No. 1  
 Location: 2050 ft. E. and 1760 ft. S. of N.W.  
 corner of L.L. 306, L.D.7

G.G.S. No. 496 D.P. No. 42  
 Elevation: 205 ft. G.L.  
 Total Depth: 4232 ft.  
 Completed: February 8, 1956

Description	Depth
No samples	0- 492
In U. Eocene (U. Ocala Ls.)	492- 680
U. Eocene (L. Ocala Ls.)	680- 940
M. Eocene	940-1680
L. Eocene (Wilcox Age)	1680-2020
Paleocene (Midway Age)	2020-2560
U. Cretaceous (Navarro Age)	2560-2880
U. Cretaceous (Taylor Age)	2880-3020
U. Cretaceous (Austin Age)	3020-3360
U. Cretaceous (U. Atkinson Fm.)	3360-3790
U. Cretaceous (L. Atkinson Fm.)	3790-4010
L. Cretaceous (Comanche series)	4010-4232

Remarks: Electric log and samples 492-4210 ft. Formational tops by Mrs. Esther R. Applin.

## COFFEE COUNTY

Operator: Rowland L. Taylor, et. al.  
 Landowner: Mattie Knightwell No. 1  
 Location: 800 ft. E. and 400 ft. N. of S.W.  
 corner of L.L. 327, L.D. 6

G.G.S. No. D.P. No.  
 Elevation: 238 ft.  
 Total Depth: 1210 ft.  
 Completed: 1943

## COFFEE COUNTY

Operator: Carpenter Oil Co.  
 Landowner: Nina McLean No. 1  
 Location: 660 ft. N. and 1320 ft. E. of S.W.  
 corner of L.L.275, L.D. 1

G.G.S. No. 444 D.P. No.  
 Elevation: 232 ft.  
 Total Depth: 383 ft.  
 Completed: 1954

Remarks: Samples 0-377 ft.

## COFFEE COUNTY

Operator: Carpenter Oil Co.  
 Landowner: Nina McLean No. 1-A  
 Location: 200 ft. S. and 2000 ft. W. of  
 N.E. corner of L.L. 275, L.D.1

G.G.S. No. 445 D.P. No.  
 Elevation: 193 ft.  
 Total Depth: 1903 ft.  
 Completed: August 19, 1954

Description	Depth
Miocene	0- 220
Oligocene	220- 300
Oligocene (Suwanee Ls.)	300- 430
U. Eocene (Ocala Ls.)	430- 675
M. Eocene (Lisbon Fm.)	675- 830
M. Eocene (Tallahatta Fm.)	830-1010
L. Eocene (Wilcox Gp.)	1010-1230
Paleocene (Clayton Fm.)	1230-1520
U. Cretaceous	1520-1903

Remarks: Electric log, drill time log, structural cross section, structural map and samples 10-1903 ft. Formational tops by Dr. S. M. Herrick.

#### COFFEE COUNTY

Operator: Carpenter Oil Co.	G.G.S. No. 446 D.P. No.
Landowner: Mrs. Susie Harper No. 2	Elevation: 259 ft.
Location: 500 ft. N. and 660 ft. W. of S.E. corner of L.L. 228, L.D.1	Total Depth: 1441 ft.
	Completed: August 5, 1954

Description	Depth
Miocene	0- 375
Oligocene	375- 495
Oligocene (Suwanee Ls.)	495- 790
M. Eocene	790- 845
Samples not worked	845-1441

Remarks: Electric log, drill time log, structural cross section, structural map and samples 0-1441 ft. Formational tops by Dr. S. M. Herrick.

#### COFFEE COUNTY

Operator: Carpenter Oil Co.	G.G.S. No. 447 D.P. No.
Landowner: T. H. Knight No. 3	Elevation: 303 ft.
Location: 650 ft. S. and 900 ft. E. of N.W. corner of L.L. 144, L.D. 1	Total Depth: 1953 ft.
	Completed: August 12, 1954

Description	Depth
Miocene	0- 750
Oligocene (Suwanee Ls.)	750- 915
M. Eocene	915- 960
Samples not worked	960-1953

Remarks: Electric log, drill time log, structural cross section structural map and samples 0-1953 ft. Formational tops by Dr. S. M. Herrick.

#### COFFEE COUNTY

Operator: Carpenter Oil Co.  
Landowner: D. D. Byrd No. 4  
Location: 660 ft. S. and 660 ft. E. of N.W.  
corner of L.L. 176, L.D. 1

G.G.S. No. 448 D.P. No.  
Elevation: 300 ft.  
Total Depth: 1605 ft.  
Completed: August 26, 1954

Description	Depth
Miocene	0- 490
Oligocene	490- 740
Oligocene (Suwanee Ls.)	740- 840
U. Eocene (Ocala Ls.)	840- 980
M. Eocene	980-1030
Samples not worked	1030-1605

Remarks: Electric log, drill time log, structural cross section, structural map and samples 0-1600 ft. Formational tops by Dr. S. M. Herrick.

#### COFFEE COUNTY

Operator: Carpenter Oil Co.  
Landowner: C.T. Thurman No. 1  
Location: 660 ft. S. and 330 ft. W. of  
N.E. corner of L.L. 189, L.D.1

G.G.S. No. 468 D.P. No. 43  
Elevation: 308 ft. D.F.  
Total Depth: 4130 ft.  
Completed: September 25, 1955

Description	Depth
Miocene	0- 360
M. Miocene (Hawthorne Fm.)	360- 440
Oligocene	440-1060
U. Eocene	1060-1260
U. or M. Eocene	1260-1360
M. or L. Eocene	1360-1830
U. Cretaceous (Navarro Age)	1830-2260
U. Cretaceous (Taylor Age)	2260-3015
U. Cretaceous (Austin Age)	3015-3250
U. Cretaceous (Tuscaloosa Fm.)	3250-3750
L. Cretaceous (Comanche series)	3750-4110
Pre-Cretaceous	4110-4130

Remarks: Electric log, lithologic log, Baroid log and samples 0-4130 ft. Formation tops by Mrs. Esther R. Applin and are of composite samples from the following wells:

1. Carpenter-Thurman No. 1 surface - 100 ft.
2. Carpenter-Thurman No. 2 100 ft. - 3510 ft.
3. Carpenter-Knight No. 1 3510 ft. - 4080 ft.
4. Carpenter-Thurman No. 1 4080 ft. - 4130 ft.

#### COFFEE COUNTY

Operator: Carpenter Oil Co.  
 Landowner: J. H. Knight No. 1  
 Location: 1100 ft. N. and 660 ft. W. of  
 S.E. corner of L.L. 144, L.D. 1

G.G.S. No. 508 D.P. No. 47  
 Elevation:  
 Total Depth: 4151 ft.  
 Completed: May 12, 1956

Description	Depth
Miocene	0- 360
M. Miocene (Hawthorne Fm.)	360- 440
Oligocene	440-1060
U. Eocene	1060-1260
U. or M. Eocene	1260-1360
M. or L. Eocene	1360-1830
U. Cretaceous (Navarro Age)	1830-2260
U. Cretaceous (Taylor Age)	2260-3015
U. Cretaceous (Austin Age)	3015-3250
U. Cretaceous (Tuscaloosa Fm.)	3250-3750
L. Cretaceous (Comanche series)	3750-4110
Pre-Cretaceous	4110-4151

Remarks: Electric log and samples 0-4100 ft. Formational tops by Mrs. Esther R. Applin and are composite samples from the following wells:

1. Carpenter-Thurman No. 1 surface - 100 ft.
2. Carpenter-Thurman No. 2 100 ft. - 3510 ft.
3. Carpenter-Knight No. 1 3510 ft. - 4080 ft.
4. Carpenter-Thurman No. 1 4080 ft. - 4130 ft.

#### COFFEE COUNTY

Operator: Carpenter Oil Co.  
 Landowner: C. T. Thurman No. 2  
 Location: 450 ft. N.W. of Thurman No. 1,  
 L.L. 189, L.D. 1

G.G.S. No. 509 D.P. No. 46  
 Elevation: 299 ft. G.L.  
 Total Depth: 3550 ft.  
 Completed: April 26, 1956

Description	Depth
No samples	0- 100
In Miocene	100- 420
Oligocene	420- 530

Oligocene (Suwanee Ls.)	530-1060
U. Eocene (Ocala Ls.)	1060-1230
M. Eocene	1230-1620
L. Eocene (Wilcox Gp.)	1620-1840
Paleocene	1840-2020
U. Cretaceous (Navarro Age)	2020-2260
U. Cretaceous (Taylor Age)	2260-3015
U. Cretaceous (Austin Age)	3015-3250
U. Cretaceous (Tuscaloosa Fm.)	3250-3550

Remarks: Electric log and samples 100-3550 ft. Formational tops from 100-2020 ft. by Dr. S. M. Herrick and from 2020-3550 ft. by Mrs. Esther R. Applin.

#### COFFEE COUNTY

Operator: Carpenter Oil Co.  
 Landowner: W. D. Wall No. 1  
 Location: 660 ft. N. of center of S. line  
 of L.L. 86, L.D. 1

G.G.S. No. 510 D.P. No.  
 Elevation: 286 ft. G.L.  
 Total Depth: 2734 ft.  
 Completed: May 24, 1956

Remarks: Samples 70-2730 ft.

#### COLQUITT COUNTY

Operator: R. T. Adams  
 Landowner: D. G. Arrington No. 1  
 Location: 210 ft. N. and 760 ft. W. of S.E.  
 corner of L.L. 270, L.D. 8

G.G.S. No. 170 D.P. No.  
 Elevation: 270 ft. D.F.  
 Total Depth: 4904 ft.  
 Completed: August 25, 1948

Description	Depth
No samples	0- 120
In Miocene	120- 390
Oligocene	390- 460
U. Eocene (Ocala Ls.)	460- 690
M. Eocene (Claiborne Gp.)	690-1200
L. Eocene (Wilcox Gp.)	1200-1290
Paleocene (Clayton Fm.)	1290-1680
U. Cretaceous (Navarro Age)	1680-1900
U. Cretaceous (Taylor Age)	1900-2440 ?
U. Cretaceous (Austin Age)	2440?-2806
U. Cretaceous (U. Atkinson Fm.)	2806-3290
U. Cretaceous (L. Atkinson Fm.)	3290-3510
L. Cretaceous (Comanche series)	3510-4904

Remarks: Electric log and samples 120-4900 ft. Formational tops from 120-1680 ft. by Dr. S. M. Herrick and from 1680-4904 ft. by Mrs. Esther R. Applin.

## CRISP COUNTY

Operator: Kerr-McGee  
 Landowner: Cecil Pate No. 1  
 Location: 660 ft. S. and 660 ft. W. of N.E.  
 corner of L.L. 144, L.D. 13

G.G.S. No. 108 D.P. No. 2  
 Elevation: 364 ft. G. L.  
 Total Depth: 5015 ft.  
 Completed: February 25, 1946

Description	Depth
No samples	0- 370
In M. Eocene (Claiborne Gp.)	370- 485
L. Eocene (Wilcox Gp.)	485- 800
Paleocene (Porters Creek Clay)	800- 835
Paleocene (Clayton Ls.)	835- 920
U. Cretaceous	920-2405
U. Cretaceous (Eutaw Fm.)	2405-2495
U. Cretaceous (U. Tuscaloosa Fm.)	2495-2970
U. Cretaceous (M.-L. Tuscaloosa Fm.)	2970-3130
L. Cretaceous ?	3130-3250
Samples not worked	3250-5015

Remarks: Electric log and samples 370-5015 ft. Formational tops by Dr. S. M. Herrick. Owing to poor quality of samples, all formational tops above 1200 ft. were picked from an electric log and from neighboring wells having similar stratigraphic sections.

## DADE COUNTY

Operator; Arnold J. Wilks  
 Landowner: J. C. Wallen No. 1  
 Location: 11 mi N. of Townsend's Store at  
 Wildwood, Ga.

G.G.S. No.      D.P. No.  
 Elevation:  
 Total Depth: 292 ft.  
 Completed: 1954

## DADE COUNTY

Operator: A.J. Alexander  
 Landowner: Trenton No. 1  
 Location: 2000 ft. N. and 50 ft. E. of  
 S.W. corner of L.L. 255, L.D. 10  
 Sec. 4

G.G.S. No. 1021 D.P. No. 69  
 Elevation: 750 ft. D.F.  
 Total Depth: 1617 ft.  
 Completed: October 27, 1964

Remarks: Samples 345-1609

DECATUR COUNTY

Operator: Hunt Oil Co.  
 Landowner: Metcalf No. 1  
 Location: Center of N.E. ¼ of L.L. 260,  
 L.D. 21

G.G.S. No. 168 D.P. No.  
 Elevation: 104 ft. D.F.  
 Total Depth: 6152 ft.  
 Completed: August 19, 1944

Description	Depth
No samples	0- 138
In Oligocene	138- 265
U. Eocene (Ocala Ls.)	265- 535
M. Eocene (Lisbon Fm.)	535- 810
M. Eocene (Tallahatta Fm.)	810-1200
L. Eocene (Wilcox Gp.)	1200-1520
Paleocene (Clayton Fm.)	1520-2050
U. Cretaceous (Navarro Age)	2050-2100
U. Cretaceous (Taylor Age)	2100-2480
U. Cretaceous (Austin Age)	2480-2900
U. Cretaceous (U. Atkinson Fm.)	2900-3320
U. Cretaceous (L. Atkinson Fm.)	3320-3600
L. Cretaceous (Comanche series)	3600-5250
Samples not worked	5250-6152

Remarks: Electric log and samples 138-6110 ft. Formational tops from 138-2050 ft. by Dr. S. M. Herrick and from 2050-5250 by Mrs. Esther R. Applin.

DECATUR COUNTY

Operator: D. E. Hughes  
 Landowner: H. W. Martin No. 1  
 Location: 660 ft. N. and 660 ft. W. of S.E.  
 corner of L.L. 189, L.D. 15

G.G.S. No. 191 D.P. No. 11  
 Elevation: 132 ft. D.F.  
 Total Depth: 3717 ft.  
 Completed: December 17, 1947

Description	Depth
Samples not worked	0-1670
U. Cretaceous (Navarro Age)	1670-1880?
U. Cretaceous (Taylor Age)	1880?-2500?
U. Cretaceous (Austin Age)	2500?-2770
U. Cretaceous (U. Atkinson Fm.)	2770-3190
U. Cretaceous (L. Atkinson Fm.)	3190-3450
L. Cretaceous (Comanche series)	3450-3717

Remarks: Electric log and samples 50-3700 ft. Formational tops by Mrs. Esther R. Applin.

DECATUR COUNTY

Operator: H. H. Chapman (Calvary Development Co.)  
 Landowner: W. P. Scott No. 1  
 Location: 660 ft. N. and 990 ft. E. of S.W. corner  
 of L.L. 25, L.D. 22

G.G.S. No. 206 D.P. No. 23  
 Elevation: 270 ft. G.L.  
 Total Depth: 4200 ft.  
 Completed: June 17, 1950

Remarks: Electric log and samples 0-4200 ft.

DECATUR COUNTY

Operator: J. R. Sealy  
 Landowner: J. R. Sealy No. 1  
 Location: 183 ft. S. and 1677 ft. W. of N.E.  
 corner of L.L. 247, L.D. 21

G.G.S. No. 387 D.P. No. 27  
 Elevation: 78 ft. D.F.  
 Total Depth: 3005 ft.  
 Completed: April 17, 1953

Remarks: Lithologic log, gas analysis and samples 1120-3005 ft.

DECATUR COUNTY

Operator: J. R. Sealy  
 Landowner: Spindle Top No. 2  
 (Ruth Rambeau No. 1)  
 Location: 330 ft. S. and 330 ft. W. of N.E.  
 corner of L.L. 235, L.D. 21

G.G.S. No. 832 D.P. No. 30  
 Elevation: 70 ft. G.L.  
 Total Depth: 4005 ft.  
 Completed: 1954

Remarks: Electric log and samples 990-3394 ft. This well was re-  
 entered in 1954 and renamed Spindle Top No. 2.

DECATUR COUNTY

Operator: Renwar Oil Co.  
 Landowner: G. E. Dollar No. 1  
 Location: 1183 ft. S. and 1183 ft. E. of N.W.  
 corner of L.L. 111, L.D. 15

G.G.S. No. 540 D.P. No. 52  
 Elevation: 124 ft. G.L.  
 Total Depth: 5000 ft.  
 Completed: April 7, 1957

Remarks: Electric log and samples 0-2180 ft.

DOOLY COUNTY

Operator: Merica Oil Co.  
 Landowner: B. F. Hill No. 1  
 Location: 330 ft. N. and 330 ft. W. of S.E. corner  
 of L.L. 74, L.D. 1

G.G.S. No. D.P. No. 38  
 Elevation: 371 ft. D.F.  
 Total Depth: 2319 ft.  
 Completed: July 3, 1954

Description	Depth
No samples	0- 100
In Paleocene	100- 510



U. Cretaceous	510-1730
U. Cretaceous (Eutaw Fm.)	655- 940
U. Cretaceous (Tuscaloosa Fm.)	940-1730
L. Cretaceous (Comanche series)	1730-2300
No samples	2300-2317
In Basement complex	2317-2319

Remarks: Electric log and lithologic log. Formational tops by Mrs. Katherine H. Keene.

#### DOOLY COUNTY

Operator: Georgia-Florida Drilling Co.	G.G.S. No. 619 D.P. No. 57
Landowner: H. E. Walton No. 1	Elevation: 443 ft. D.F.
Location: 811 ft. S. and 1333 ft. W. of N.E. corner of L.L. 163, L.D. 6; 9 mi. E.S.E. of Vienna, Ga.	Total Depth: 3748 ft. Completed: June 3, 1960

Description	Depth
Miocene	0- 110
No samples	110- 640
In L. Eocene (Wilcox Gp.)	640- 724
Paleocene (Clayton Fm.)	724- 827
U. Cretaceous (post-Eutaw)	827-2138
U. Cretaceous (Eutaw Fm.)	2138-2210
U. Cretaceous (Tuscaloosa Fm.)	2210-2952
L. Cretaceous ? (Comanche series)	2952-3512
Basement complex	3512-3748

Remarks: Electric log, neutron log, petrographic analysis of core material from 3740-3748 ft. and samples 0-3748 ft. Formational tops by Dr. S. M. Herrick.

#### DOUGHERTY COUNTY

Operator: J. R. Sealy	G. G. S. No. 11 D. P. No.
Landowner: Reynolds Lumber Co. No. 1	Elevation: 197 ft. G. L.
Location: 330 ft. N. and 330 ft. W. of S.E. corner of L.L. 116, L.D.2	Total Depth: 5012 ft. Completed: March 24, 1942

Description	Depth
No samples	0- 280
In M. Eocene (Tallahatta Fm.)	280- 465
L. Eocene (Wilcox Gp.)	465- 558
No samples	558- 575
In Paleocene (Clayton Fm.)	575- 770
U. Cretaceous (Providence Sd. & Ripley Fm.)	770-1100
U. Cretaceous (Cusseta Sd. & Blufftown Fm.)	1100-2365

U. Cretaceous (Eutaw Fm.)	2365-2505
U. Cretaceous (Tuscaloosa Fm.)	2505-4455
U. Cretaceous (M. Marine Tuscaloosa Fm.)	2805-2851
L. Cretaceous (Comanche Series)	4455-5012

Remarks: Electric log, lithologic log and samples 280-5012 ft. Formational tops from 280-2805 by Dr. S. M. Herrick and from 2805-5012 by Mr. M. W. Sherwin

#### DOUGHERTY COUNTY

Operator: J. R. Sealy	G.G.S. No. 183	D.P. No.
Landowner: Reynolds Lumber Co. No. 2	Elevation: 187 ft.	D.F.
Location: 1097 ft. N. and 380 ft. W. of S.E. corner of L.L. 374, L.D. 2	Total Depth: 5310 ft.	Completed: June 3, 1942

Remarks: Electric log and samples 136-5310 ft.

#### EARLY COUNTY

Operator: Mont Warren, et. al.	G.G.S. No. 121	D. P. No.
Landowner: A. C. Chandler No. 1	Elevation: 182 ft.	G.L.
Location: 250 ft. N. and 968 ft. W. of S.E. corner of N. 1/3 of L.L. 406, L.D. 26.	Total Depth: 7320 ft.	Completed: October 2, 1943

Description	Depth
No samples	0- 615
In Paleocene (Clayton Fm.)	615-1200
U. Cretaceous (Navarro Age)	1200-1358
U. Cretaceous (Taylor Age)	1358-1830
U. Cretaceous (Austin Age)	1830-2395
U. Cretaceous (U. Atkinson Fm.)	2395-2915
U. Cretaceous (L. Atkinson Fm.)	2915-3140
L. Cretaceous (Comanche series)	3140-5670
U. Triassic? (Newark Gp: ?)	5670-6600
M. Devonian ? (Weathered ? shale)	6600-6781
M. Devonian (Black Shale)	6781-7240
L. Ordovician ?	7240-7320

Remarks: Electric log, lithologic log and samples 615-7284 ft. Formational tops from 615-1200 by Dr. S. M. Herrick and from 1200-7320 by Mrs. Esther R. Applin.

#### EARLY COUNTY

Operator: Harris G. Anderson, et. al.	G.G.S. No. 1145	D.P. No. 77
Landowner: Great Northern Paper Co. No. 1	Elevation: 190 ft.	G.L.
Location: 1650 ft. W. and 1450 ft. N. of S.E. corner of L.L. 387, L.D. 26; 2 mi. S.W. of Cedar Springs, Ga.	Total Depth: 7580 ft.	Completed: April 12, 1969

Remarks: Dual induction-laterolog, sonic log, formation density log, neutron porosity log, formation tester log and samples 0-7580 ft.

#### EARLY COUNTY

Operator: Harris G. Anderson, et. al.  
Landowner: Great Northern Paper Co. No. 2  
Location: 917 ft. W. and 984 ft. S. of N.E.  
corner of L.L. 406, L.D. 26

G.G.S. No. 2135 D.P. No. 78  
Elevation: 182 ft. G.L.  
Total Depth: 7346 ft.  
Completed: July 12, 1969

Remarks: Dual induction-laterlog, sonic log and samples 0-7346 ft.

#### EARLY COUNTY

Operator: Sun Oil Co.  
Landowner: R. V. Ellis No. 1  
Location: 1738 ft. S. and 11 ft. W. of N.E.  
corner of L.L. 341, L.D. 26

G.G.S. No. 483 D.P. No.  
Elevation: 158 ft. G.L.  
Total Depth: 3175 ft.  
Completed: December 2, 1954

Description	Depth
No samples	0- 80
In M. Eocene (Lisbon Fm.)	80- 200
M. Eocene (Tallahatta Fm.)	200- 320
L. Eocene (Wilcox Gp.)	320- 640
Paleocene (Clayton Fm.)	640-1120
U. Cretaceous (post-Tuscaloosa Fm.)	1120-2450
U. Cretaceous (Tuscaloosa Fm.)	2450-3175

Remarks: Samples 80-3175 ft. Formational tops by Dr. S. M. Herrick

#### EARLY COUNTY

Operator: Sun Oil Co.  
Landowner: W. B. Martin No. 1  
Location: 673 ft. N. and 113 ft. E. of S.W.  
corner of L.L. 330, L.D. 26.

G.G.S. No. 484 D.P. No.  
Elevation: 158 ft. G.L.  
Total Depth: 3100 ft.  
Completed: December 8, 1954

Remarks: Samples 0-3100 ft.

#### EARLY COUNTY

Operator: Sun Oil Co.  
Landowner: Mrs. Edith Harvey No. 1  
Location: 707 ft. S. and 605 ft. W. of N.E.  
corner of L.L. 233, L.D. 26

G.G.S. No. 485 D.P. No.  
Elevation: 122 ft. D.F.  
Total Depth: 3250 ft.  
Completed: December 21, 1954

Remarks: Samples 0-3250 ft.

EARLY COUNTY

Operator: Sun Oil Co.  
 Landowner: J. S. Willoughby No. 1  
 Location: 194 ft. S. and 293 ft. E. of N.W.  
 corner of L.L. 364, L.D. 26

G.G.S. No. 486 D.P. No.  
 Elevation: 170 ft. G.L.  
 Total Depth: 3130 ft.  
 Completed: January 26, 1955

Remarks: Samples 0-3130 ft.

ECHOLS COUNTY

Operator: Hunt Oil Co.  
 Landowner: Superior Pine Prod. Co. No. 1  
 Location: L.L. 364, L.D. 13

G.G.S. No. 166 D.P. No.  
 Elevation: 181 ft. G. L.  
 Total Depth: 3865 ft.  
 Completed: October 11, 1944

Remarks: Electric log and samples 10-225 ft., 260-430 ft. Core  
 2182-2186 ft. and 3828-3833 ft.

ECHOLS COUNTY

Operator: Hunt Oil Co.  
 Landowner: Superior Pine Prod. Co. No. 2  
 Location: S.W. corner of L.L. 317, L.D. 13

G.G.S. No. 169 D.P. No.  
 Elevation: 142 ft. D.F.  
 Total Depth: 4062 ft.  
 Completed: April 7, 1945

Description	Depth
Samples not worked	0-2890
In U. Cretaceous (Taylor Age)	2890-3070
U. Cretaceous (Austin Age)	3070-3460
U. Cretaceous (U. Atkinson Fm.)	3460-3578
U. Cretaceous (L. Atkinson Fm.)	3578-3730
L. Ordovician	3730-4062

Remarks: Electric log and samples 0-4060 ft. Formational tops by  
 Mrs. Esther R. Applin.

ECHOLS COUNTY

Operator: Hunt Oil Co.  
 Landowner: Superior Pine Prod. Co. No. 3  
 Location: 218 ft. E. and 242 ft. N. of S.E.  
 corner of L.L. 532, L.D.13

G.G.S. No. 150 D.P. No.8  
 Elevation: 135 ft. G.L.  
 Total Depth: 4003 ft.  
 Completed: July 29, 1947

Description	Depth
Samples not studied	0-2590
U. Cretaceous (U. Lawson Ls.?)	2590?-2670
U. Cretaceous (Taylor Age)	2670-2950

U. Cretaceous (Austin Age)	2950-3320
U. Cretaceous (U. Atkinson Fm.)	3320-3465
U. Cretaceous (L. Atkinson Fm.?)	3465-3625
L. Cretaceous (Comanche series?)	3625-3657
M. Ordovician	3657-4003

Remarks: Electric log and samples 15-3680 ft. Formational tops by Mrs. Esther R. Applin.

#### ECHOLS COUNTY

Operator: Hunt Oil Co.	G.G.S. No. 158 D.P. No. 13
Landowner: Superior Pine Prod. Co. No. 4	Elevation: 156 ft. D.F.
Location: 1978 ft. E. of N.W. corner and 1106 ft. S. 8 deg. W. from this point; L.L. 219, L.D. 13	Total Depth: 3916 ft. Completed: March 16, 1948

Description	Depth
Samples not studied	0-2620
In U. Cretaceous (Lawson Ls.)	2620-2680
U. Cretaceous (Taylor Age)	2680-2950
U. Cretaceous (Austin Age)	2950-3272
U. Cretaceous (U. Atkinson Fm.)	3272-3440
U. Cretaceous (L. Atkinson Fm.)	3440-3629
L. Cretaceous (Comanche series)	3629-3911
M. Ordovician	3911-3916

Remarks: Electric log and samples 0-3916 ft. Formational tops by Mrs. Esther R. Applin.

#### ECHOLS COUNTY

Operator: Humble Oil and Refining Co.	G.G.S. No. 189 D.P. No. 16
Landowner: Bennett & Langsdale No. 1	Elevation: 181 ft. D.F.
Location: 660 ft. S. and 660 ft. E. of N.W. corner of L.L. 146, L.D. 12	Total Depth: 4182 ft. Completed: May 5, 1949

Description	Depth
No samples	0- 170
In Miocene	170- 245
Oligocene	245- 440
U. Eocene (Ocala Ls.)	440- 505
No samples	505-1300
In M. Eocene (Claiborne Gp.)	1300-1750
L. Eocene (Wilcox Gp.)	1750-2295
Paleocene (Clayton Fm.)	2295-2810
U. Cretaceous (Taylor Age)	2810-3050
U. Cretaceous (Austin Age)	3050-3340

U. Cretaceous (U. Atkinson Fm.)	3340-3550
U. Cretaceous (L. Atkinson Fm.)	3550-3760
L. Cretaceous (Comanche series)	3760-4120
U. Silurian	4120-4182

Remarks: Electric log, baroid log and samples 170-3372 ft. Formational tops from 170-2810 ft. by Dr. S. M. Herrick, and from 2810-4182 ft. by Mrs. Esther R. Applin.

#### EMANUEL COUNTY

Operator: Georgia Oil Co.	G.G.S. No.	D.P. No.
Landowner:	Elevation:	
Location: Near Graymont, Georgia	Total Depth: 2232 ft.	
	Completed: January, 1932	

#### EMANUEL COUNTY

Operator: Bedingfield & Fallin	G.G.S. No. 172	D.P. No. 10
Landowner: J. J. & Perry Kennedy No. 1	Elevation: 200 ft.	D.F.
Location: 0.7 mi. S. & 300 ft. W. in GMD 57	Total Depth 1855 ft.	
	Completed: October 2, 1948	

Remarks: Samples 0-1855 ft.

#### FLOYD COUNTY

Operator: Rome Petroleum and Iron Co.	G.G.S. No.	D.P. No.
Landowner: No. 1	Elevation:	
Location: 4.5 mi. N.W. of Rome, Ga.	Total Depth: 1200 ft. ?	
	Completed: 1903	

Remarks: Started in Floyd shale, stopped apparently in the Red Mountain Formation.

#### FLOYD COUNTY

Operator: Rome Petroleum and Iron Co.	G.G.S. No.	D.P. No.
Landowner: No. 2	Elevation:	
Location: 8 mi. W. of Rome, Ga.	Total Depth: 1850 ft.	
	Completed: 1903	

#### GLYNN COUNTY

Operator: E. B. LaRue Drilling Co.	G.G.S. No. 362	D.P. No. 33
Landowner: Roy H. Massey No. 1	Elevation: 20 ft.	D.F.
Location: Begin at intersection of Hwy. 50 and Fancy Bluff Bridge, S. along Hwy. 5773 ft., then S. 14 deg. 54 min. W. 1500 ft.; Colonel's Island, L.L. 16, GMD 27.	Total Depth: 4614 ft.	
	Completed: November 25, 1953	

Description	Depth
Pliocene - Recent	0- 180
Miocene	180- 580
Oligocene	580- 600
U. Eocene (Ocala Ls.)	600-1000
M. Eocene (Claiborne Gp.)	1000-1400
Samples not worked	1400-4614

Remarks: Electric log, gamma ray log, lithologic log and samples 0-4614 ft. Formational tops by Dr. S. M. Herrick.

#### GLYNN COUNTY

Operator: E. B. LaRue Drilling Co.  
 Landowner: C. E. P. Curry No. 1  
 Location: 1650 ft. N. 1237 ft. E. of S.W.  
 corner of L.L. 12, L.D. 92, GMD 27

G.G.S. No. 376 D.P. No. 36  
 Elevation: 20 ft. D.F.  
 Total Depth: 2050 ft.  
 Completed: March 25, 1954

Description	Depth
Pliocene - Recent	0- 150
Miocene	150- 580
Oligocene	580- 600
U. Eocene (Ocala Ls.)	600- 980
M. Eocene (Claiborne Gp., undifferentiated)	980-1350
Samples not worked	1350-2050

Remarks: Samples 0-1580 ft. Formational tops by Dr. S. M. Herrick.

#### GLYNN COUNTY

Operator: Humble Oil and Refining Co.  
 Landowner: W. C. McDonald No. ST-1  
 Location: N. 59 deg. 10 min. W. 14,050 ft.  
 from U.S.C. and G.S. "Sky",  
 GMD 1499; 11 mi. N.W. of  
 Brunswick, Ga.

G.G.S. No. 719 D.P. No. 64  
 Elevation: 15 ft. G.L.  
 Total Depth: 4737 ft.  
 Completed: April 17, 1961

Description	Depth
No samples	0- 40
In Pliocene ?	40- 140
Miocene	140- 560
Oligocene	560- 600
No samples	600- 660
In U. Eocene (Ocala Ls.)	660- 931

M. Eocene (Claiborne Gp.)	931-1598
L. Eocene (Oldsmar Ls.)	1598-2300
Paleocene	2300-2548
U. Cretaceous (Lawson Ls.)	2548-3130
U. Cretaceous (Taylor Age)	3130-3663
U. Cretaceous (Austin Age)	3663-4100
U. Cretaceous (Eutaw Fm., restricted)	4100-4132
U. Cretaceous (Tuscaloosa Fm.)	4132-4506
U. Cretaceous (L. Tuscaloosa Fm.)	4455-4506
L. Cretaceous (Comanche series)	4506-4700
Basement complex	4700-4737

Remarks: I.E.S. log, sonic log, microlaterolog and samples 40-4720 ft. Formational tops by Dr. S. M. Herrick.

#### GLYNN COUNTY

Operator: Humble Oil and Refining Co.  
 Landowner: Union Bag Camp Paper No. ST-1  
 Location: N. 45 deg. 10 min. W. 11,300 ft.  
 from U.S.C. and G.S. "Falk" in  
 GMD 27

G.G.S. No. 724 D.P. No. 65  
 Elevation: 14 ft. G.L.  
 Total Depth: 4642 ft.  
 Completed: May 28, 1961

Description	Depth
Pliocene - Recent	0- 65
Pliocene ?	65- 95
Miocene	95- 550
Oligocene	550- 580
No samples	580- 600
In U. Eocene (Ocala Ls.)	600- 920
In M. Eocene (Avon Park Ls.)	920-1200
M. Eocene (Lake City Ls.)	1200-1775
L. Eocene (Oldsmar Ls.)	1775-2220
Paleocene (Clayton Fm.)	2220-2650
U. Cretaceous (Lawson Ls.)	2650-3405
U. Cretaceous (Taylor Age)	3405-3793
U. Cretaceous (Austin Age)	3793-4235
U. Cretaceous (Eutaw Fm., restricted)	4235-4255
U. Cretaceous (Tuscaloosa Fm.)	4255-4615
L. Cretaceous ? (Comanche series?)	4615-4642

Remarks: I.E.S. log, sonic log, microlaterolog, and samples 60-4640 ft. Formational tops by Dr. S. M. Herrick.



## GLYNN COUNTY

Operator: Pan American Petroleum Corp.  
Landowner: Union Camp Paper Co. No. 1  
Location: 3356 ft. N. 59 deg. 57 min. E. from  
the most northerly northeast corner  
of Brunswick Pulp & Paper Co. 190.7  
acre tract, 4 mi. S.E. of Everett, Ga.

G. G. S. No. 1197 D. P. No. 79  
Elevation:  
Total Depth: 4435 ft.  
Completed: August 6, 1970

Remarks: I. E. S., sonic, gamma ray, caliper logs and samples from  
0-4435 ft. will be made available to the public six months from the  
above date.

## HEARD COUNTY

Operator: C. C. Alfred  
Landowner: Williamson No. 1  
Location: 265 ft. S. and 410 E. of N.W.  
corner of L.L. 133, L.D. 15

G.G.S. No. D.P. No. 9  
Elevation:  
Total Depth: 1100 ft.  
Completed: 1947?

## HEARD COUNTY

Operator: Adams Massey Co. & L. D. Cain  
Landowner: Middlebrooks No. 1  
Location: 1232 ft. S. and 403 ft. E. of N.W.  
corner of L.L. 133, L.D. 15

G.G.S. No. D.P. No. 21  
Elevation:  
Total Depth: 1000 ft.  
Completed: April 24, 1950

## HEARD COUNTY

Operator: L. D. Cain  
Landowner: D. H. Shephard No. 1  
Location: 335 ft. No. and 200 ft. E. of S.W.  
corner of L.L. 167, L.D. 15

G. G.S. No. D.P. No. 24  
Elevation:  
Total Depth: 1000 ft.  
Completed: April 24, 1950

## HOUSTON COUNTY

Operator: Tricon Minerals, Inc.  
Landowner: J. D. Duke No. 1  
Location: 130 ft. S. and 500 ft. E. of N.W.  
corner of L.L. 44, L.D. 14

G.G.S. No. 193 D.P. No. 19  
Elevation: 419 ft. D.F.  
Total Depth: 1494 ft.  
Completed: September 7, 1949

Remarks: Samples 30-1494 ft.

## HOUSTON COUNTY

Operator: Tricon Minerals, Inc.  
 Landowner: H. B. Gilbert No. 1  
 Location: 300 ft. W. of Elko Rd. about  
 midway between N. and S.  
 lines of L.L. 267, L.D. 13

G.G.S. No. 194 D.P. No. 20  
 Elevation: 364 ft. G.L.  
 Total Depth: 1698 ft.  
 Completed: September 25, 1949

Description	Depth
Oligocene & Eocene	0- 150
No samples	150- 190
In Paleocene (Clayton Fm.)	190- 205
U. Cretaceous (Providence Sand)	205- 385
U. Cretaceous (Ripley Fm. & Cusseta Sand)	385- 820
U. Cretaceous (Blufftown Fm. & Eutaw Fm.)	820- 910
U. Cretaceous (Tuscaloosa Fm.)	910-1555
L. Cretaceous ? (Comanche series ?)	1555-1685
Basement complex	1685-1698

Remarks: Electric log and samples 0-1693 ft. Formational tops by  
 Dr. S. M. Herrick.

## JEFF DAVIS COUNTY

Operator: Hinson Oil and Gas Development Co.  
 Landowner:  
 Location: Near Town Bluff Ferry

G.G.S. No. D.P. No.  
 Elevation: 256 ft. G.L.  
 Total Depth: 828 ft.  
 Completed: 1933

Remarks: Lithologic log

## JEFF DAVIS COUNTY

Operator: Middle Georgia Oil and Gas Co.  
 Landowner: Lillian B. No. 2  
 Location: 12 mi. W. of Hazellhurst, Ga.

G.G.S. No. D. P. No.  
 Elevation: 225 ft., G.L.  
 Total Depth: 1375 ft.  
 Completed: 1922

Remarks: Lithologic log.

## JEFFERSON COUNTY

Operator: Georgia Petroleum Co. (A. F. Lucas)  
 Landowner: Black No. 1  
 Location: 3.5 mi. S.W. of Louisville, Ga.

G.G.S. No. D.P. No.  
 Elevation:  
 Total Depth: 1143 ft.  
 Completed: 1907

Remarks: Lithologic log.

### JEFFERSON COUNTY

Operator: Owen Hembree  
 Landowner: Enola Kelly No. 1  
 Location: GMD 82, N. of Louisville, Ga.

G.G.S. No. 480 D.P. No.  
 Elevation: 355 ft. G. L.  
 Total Depth: 787 ft.  
 Completed: October 9, 1955

Description	Depth
Miocene	0- 30
U. Eocene (Barnwell Fm.)	30- 130
M. Eocene (Claiborne Gp.)	130- 320
U. Cretaceous (Tuscaloosa Fm.)	320- 750

Remarks: Samples 0-750 ft. Formational tops by Dr. S. M. Herrick,

### JEFFERSON COUNTY

Operator: Owen Hembree  
 Landowner: J. R. Phillips, Jr. No. 1  
 Location: GMD 82, just N.W. of Louisville, Ga.

G.G.S. No. 1159 D.P. No.  
 Elevation: 259 ft. G. L.  
 Total Depth: 550 ft.  
 Completed: November 12, 1955

Remarks: Samples 0-550 ft.

### LAURENS COUNTY

Operator: Calaphor Manufacturing Co.  
 Landowner: Grace McCain No. 1  
 Location: 0.5 mi. S. of Minter, Ga.; 10 mi.  
 E. of Dublin, Ga.

G.G.S. No. 51 D.P. No.  
 Elevation: 280 ft.  
 Total Depth: 2548 ft.  
 Completed: July 11, 1945

Remarks: Electric log, lithologic log and samples 1260-2548 ft.

### LIBERTY COUNTY

Operator: E. B. LaRue  
 Landowner: Jelks & Rodgers No. 1  
 Location: Longitude 81 deg. 20 min. 25 sec.  
 W., Latitude 31 deg. 41 min. 15  
 sec. N.; 6.5 mi. S.E. of Riceboro,  
 Ga. in S.W. ¼ of L.L. 20, L.D. 35,  
 GMD 15

G.G.S. No. 363 D.P. No. 35  
 Elevation: 26 ft. D.F.  
 Total Depth: 4254 ft.  
 Completed: January 14, 1954

Description	Depth
Pliocene-Recent	0- 110
Miocene	110- 375
Oligocene	375- 465

U. Eocene (Ocala Ls.)	465-1040
M. Eocene (Lisbon Fm.)	1040-1435
M. Eocene (Tallahatta Fm.)	1435-1505
L. Eocene (Wilcox Gp.)	1505-1840
Paleocene (Clayton Fm.)	1840-2280
U. Cretaceous (post-Eutaw Fm.)	2280-3470
U. Cretaceous (Eutaw Fm., restricted)	3470-3615
U. Cretaceous (Tuscaloosa Fm.)	3615-4250
Basement complex	4250-4254

Remarks: Electric log, gamma ray log, and samples 0-4254 ft. Formational tops by Dr. S. M. Herrick

#### MACON COUNTY

Operator: Merica Oil Co.	G.G.S. No.	D.P. No. 39
Landowner: J. F. Forhand No. 1	Elevation:	290 ft. D.F.
Location: 500 ft. S. and 600 ft. E. of N.W. corner of L.L. 182, L.D. 1	Total Depth:	2140 ft.
	Completed:	July 23, 1954

Description	Depth
No samples	0- 100
In Paleocene	100- 340
U. Cretaceous	340-1510
U. Cretaceous (Eutaw Fm.)	520- 765
U. Cretaceous (Tuscaloosa Fm.)	765-1510
L. Cretaceous (Comanche series)	1510-2130
No samples	2130-2139
In Basement complex	2139-2140

Remarks: Electric log. Formational tops by Mrs. Katherine H. Keene.

#### MARION COUNTY

Operator: Lee Oil and Natural Gas Co.	G.G.S. No. 476	D.P. No. 44
Landowner: J. S. Bergin No. 1	Elevation:	600 ft. G.L.
Location: 1716 ft. S. and 1441 ft. E. of N.W. corner of L.L. 207, L.D. 31.	Total Depth:	1770 ft.
	Completed:	April 19, 1956

Description	Depth
Paleocene (Clayton Fm.)	0- 10
No samples	10- 20
In U. Cretaceous (Providence Sand)	20- 180

U. Cretaceous (Ripley Fm. and Cusseta Sand)	180- 480
U. Cretaceous (Blufftown Fm. and Eutaw Fm.)	480- 960
U. Cretaceous (Tuscaloosa Fm.)	960-1590
Basement complex	1590-1770

Remarks: Samples 0-1770 ft. Formational tops by Dr. S. M. Herrick.

### MARION COUNTY

Operator: Lee Oil and Natural Gas Co.	G.G.S. No. 505	D.P. No. 51
Landowner: F. N. Winkler No. 1	Elevation: 600 ft.	G. L.
Location: N. ½ of L.L. 33, L.D. 25	Total Depth: 4010 ft.	
	Completed: October 5, 1956	

Remarks: Samples 150-4010 ft.

### MITCHELL COUNTY

Operator: D. G. McElvey	G.G.S. No.	D.P. No.
Landowner:	Elevation:	
Location: 2.5 mi. N. of Pelham, Ga. and 1 mi. from County Hwy. 3	Total Depth: 125 ft.	
	Completed: 1932	

### MITCHELL COUNTY

Operator: Stanolin Oil and Gas Co.	G.G.S. No. 109	D.P. No.
Landowner: J. H. Pullen No. 1	Elevation: 330 ft.	G.L.
Location: 750 ft. S. and 700 ft. W. of N.E. corner of L.L. 133, L.D. 10	Total Depth: 7487 ft.	
	Completed: August 14, 1944	

Description	Depth
Miocene	0- 310
Oligocene	310- 810
M. Eocene (Lisbon Fm.)	810- 955
M. Eocene (Tallahatta Fm.)	955-1315
In, L. Eocene ? (Wilcox Gp.)	1315-1445
Paleocene (Clayton Fm.)	1445-1695
U. Cretaceous (Navarro Age)	1695-1910
U. Cretaceous (Taylor Age)	1910-2350
U. Cretaceous (Austin Age)	2350-2830
U. Cretaceous (U. Atkinson Fm.)	2830-3360
U. Cretaceous (L. Atkinson Fm.)	3360-3640
L. Cretaceous (Comanche series)	3640-6220?
U. Triassic ? (Newark? Gp.)	6220?-7487

Remarks: Electric log, petrographic report of cores and samples 0-7487 ft. Formational tops 0-1695 ft. by Dr. S. M. Herrick, and 1695-7487 ft. by Mrs. Esther R. Applin.

MONTGOMERY COUNTY

Operator: Meadows Development Co.  
Landowner: Moses No. 1  
Location: GMD 1810

G.G.S. No. D.P. No.  
Elevation: 194 ft.  
Total Depth: 1180 ft.  
Completed: 1938

MONTGOMERY COUNTY

Operator: Meadows Development Co.  
Landowner: Moses No. 2  
Location: 1 mi. S.W. of Uvalda, Ga. Railroad  
Station: 200 yds S.W. of Uvalda  
High School and on S. slope of  
small hill; 75 yds. E. of Meadows-  
Moses No. 1 and 100 yds. S.E. of  
older unnamed well

G.G.S. No. 128 D.P. No.  
Elevation: 199 ft. G.L.  
Total Depth: 1619 ft.  
Completed: May 20, 1939

Remarks: Lithologic description and samples 1050-1589 ft.

MONTGOMERY COUNTY

Operator: Meadows Development Co.  
Landowner: Moses No. 3  
Location: GMD 1810

G.G.S. No. D.P. No.  
Elevation: 188 ft. D.F.  
Total Depth: 1906 ft.  
Completed: December 15, 1939

Remarks: Electric log.

MONTGOMERY COUNTY

Operator: J. E. Weatherford  
Landowner: Lonnie Wilkes No. 1  
Location: 330 ft. N. and 330 ft. W. of S.E.  
corner of AB 10001, GMD 1567

G.G.S. No. 190 D.P. No. 4  
Elevation: 287 ft. G.L.  
Total Depth: 3443 ft.  
Completed: May 9, 1946

Remarks: Electric log and samples 10-3426 ft.

MORGAN COUNTY

Operator: Perry, et. al.  
Landowner: A. O. Williams No. 1  
Location: 7 mi. S. of Madison, Ga.

G.G.S. No. D.P. No.  
Elevation:  
Total Depth: 1105 ft.  
Completed: 1916

PIERCE COUNTY

Operator: Pan American Petroleum Corp.  
 Landowner: Adams-McCaskill No. 1  
 Location: 1.5 mi. E. of Offerman, Ga.;  
 L.L. 329. L.D.4

G.G.S. No. 119 D.P. No.  
 Elevation: 77 ft. D.F.  
 Total Depth: 4375 ft.  
 Completed: May 13, 1938

Description	Depth
No samples	0- 120
In Miocene	120- 585
Oligocene	585- 600
U. Eocene (Ocala Ls.)	600- 865
M. Eocene (Claiborne Gp.)	865-2055
L. Eocene (Wilcox Gp.)	2055-2255
Paleocene (Clayton Fm.)	2255-2720
U. Cretaceous (post-Tuscaloosa Fm.)	2720-3875
U. Cretaceous (Tuscaloosa Fm.)	3875-4246
L. Cretaceous ?(Comanche series)	4246-4348
Basement complex	4348-4375

Remarks: Electric log, lithologic log and samples 120-4375 ft. Formational tops by Dr. S. M. Herrick.

PIERCE COUNTY

Operator: Pan American Petroleum Corp.  
 Landowner: Adams-McCaskill No. 1  
 Location: 2.3 mi. N.E. of Offerman, Ga.;  
 1000 ft. S. and 1000 ft. W. of  
 N.E. corner of L.L.332, L.D.4

G.G.S. No. 120 D.P. No.  
 Elevation: 70 ft. G.L.  
 Total Depth: 4355 ft.  
 Completed: May 15, 1939

Description	Depth
No samples	0- 111
In Miocene	111- 650
Oligocene	650- 701
U. Eocene (Ocala Ls.)	701- 875
M. Eocene (Claiborne Gp.)	875-2095
L. Eocene (Wilcox Gp.)	2095-2385
Paleocene (Clayton Fm.)	2385-2750
Cretaceous	2750-4348
Basement complex	4348-4355

Remarks: Electric log, lithologic log and samples 111-4355 ft. Formational tops by Dr. S. M. Herrick. Samples of poor quality and formational tops are approximate.

PULASKI COUNTY

Operator: Ainsworth, Inc.  
 Landowner: E. H. Tripp No. 1  
 Location: 320 ft. from the N.W. and S.W.  
 lines of L.L. 306, L.D. 21

G.G.S. No. 472 D.P. No.  
 Elevation: 280 ft. G.L.  
 Total Depth: 2684 ft.  
 Completed: November 7, 1954

Description	Depth
Residuum	0- 80
Oligocene	80- 100
L. Oligocene (Cooper Marl)	100- 135
U. Eocene (Barnwell Fm.)	135- 255
M. Eocene (Lisbon Fm.)	255- 380
M. Eocene (Tallahatta Fm.)	380- 450
U. Cretaceous (post-Tuscaloosa Fm.)	450-1370
In U. Cretaceous (Tuscaloosa Fm.)	1370-2160
In L. Cretaceous ? (Comanche series ?)	2160-2488
No samples	2488-2684

Remarks: Electric log and samples 0-2488 ft. Formational tops by Dr. S. M. Herrick.

PULASKI COUNTY

Operator: R. O. Leighton  
 Landowner: John Dana No. 1  
 Location: 330 ft. S. 330 ft. E. of N.W.  
 corner of L.L. 280, L.D. 12

G.G.S. No. 491 D.P. No. 45  
 Elevation: 328 ft. G.L.  
 Total Depth: 6035 ft.  
 Completed: April 26, 1957

Description	Depth
No samples	0- 200
In Miocene	200- 220
U. Eocene (Ocala Ls.)	220- 270
U. Cretaceous	270-1480
U. Cretaceous (Eutaw Fm.)	450- 550
U. Cretaceous (U. Tuscaloosa Fm. ?)	550- 770
U. Cretaceous (marine Tuscaloosa Fm.)	770- 920
U. Cretaceous (L. Tuscaloosa Fm.)	920-1480
L. Cretaceous (Comanche series)	1480-2350
Basement complex	2350-6035

Remarks: Electric log, microlog and samples 200-6035 ft. Formational tops by Mrs. Eleanor T. Caldwell (Humble Oil and Refining Co.).



PULASKI COUNTY

Operator: R. O. Leighton  
 Landowner: E. H. Tripp No. 2  
 Location: 330 ft. S. of the center of Bleckley  
 County line in L.L. 307, L.D. 21

G.G.S. No. 960 D.P. No. 53  
 Elevation: 305 ft. D.F.  
 Total Depth: 2929 ft.  
 Completed: May 11, 1959

Remarks: Samples 100-2929 ft.

RICHMOND COUNTY

Operator: Three Creeks Oil Co.  
 Landowner:  
 Location: Allen's Station, 9 mi. S. of  
 Augusta, Ga.

G.G.S. No. D.P. No.  
 Elevation:  
 Total Depth: 400 ft.  
 Completed: 1921

SCREVEN COUNTY

Operator: F. W. McCain  
 Landowner: Helen H. Pryor No. 1  
 Location: Beside Oglethorpe Trail 7.5 mi.  
 S.E. of Newington, Ga. and 11.5  
 mi. W. of Savannah River. Also  
 about 20 mi. S.E. of Sylvania, Ga.

G.G.S. No. 855 D.P. No. 71  
 Elevation: 130 ft. G.L.  
 Total Depth: 2677 ft.  
 Completed: June 13, 1963

Description	Depth
Recent - Pleistocene	0- 20
Miocene	20- 190
Oligocene	190- 200
No samples	200- 600
In M. Eocene	600- 735
L. Eocene (Wilcox Gp.)	735- 830
Paleocene (Clayton Fm.)	830- 900
U. Cretaceous (Navarro Age)	900-1360
U. Cretaceous (Taylor Age)	1360-1630
U. Cretaceous (Austin Age)	1630-1695
U. Cretaceous (Atkinson Fm.)	1695-1782
U. Cretaceous (Tuscaloosa Fm.)	1782-2605
L. Cretaceous (Comanche series)	2605-2674
Basement complex	2674-2677

Remarks: I.E.S. log and samples 0-2140 ft. Formational tops by  
 Dr. S. M. Herrick. All formational tops below 2140 ft. picked from  
 I.E.S. log.

SEMINOLE COUNTY

Operator: Mont Warren, et. al.  
 Landowner: W. E. Harlow No. 1  
 Location: 660 ft. N. and 660 ft. W. of S.E.  
 corner of L.L. 82, L.D. 27

G.G.S. No. 187 D.P. No. 17  
 Elevation: 137 ft. G.L.  
 Total Depth: 3572 ft.  
 Completed: February 27, 1949

Description	Depth
Residuum	0- 40
U. Eocene (Ocala Ls.)	40- 60
No samples	60- 663
In M. Eocene (Tallahatta Fm.)	663- 720
L. Eocene (Wilcox Gp.)	720- 910
Paleocene (Clayton Fm.)	910-1430
U. Cretaceous (Navarro Age)	1430-1510
U. Cretaceous (Taylor Age)	1510-2150
U. Cretaceous (Austin Age)	2150-2540
U. Cretaceous (U. Atkinson Fm.)	2540-3050
U. Cretaceous (L. Atkinson Fm.)	3050-3279
L. Cretaceous (Comanche series)	3279-3572

Remarks: Electric log and samples 0-3550 ft. Formationatl tops from 0-1430 ft. by Dr. S. M. Herrick and from 1430-3572 ft. by Mrs. Esther R. Applin.

SEMINOLE COUNTY

Operator: Mont Warren  
 Landowner: Grady Bell No. 1-A  
 Location: 560 ft. N. and 660 ft. E. of S.W.  
 corner of L.L. 61, L.D. 27

G.G.S. No. 204 D.P. No. 22  
 Elevation: 108 ft. G.L.  
 Total Depth: 3810 ft.  
 Completed: March 10, 1950

Description	Depth
Samples not worked	0-1860
In Paleocene	1860-1900
U. Cretaceous (Navarro Age)	1900-1955
U. Cretaceous (Taylor Age)	1955-2400
U. Cretaceous (Austin Age)	2400-2700
U. Cretaceous (U. Atkinson Fm.)	2700-3110
U. Cretaceous (L. Atkinson Fm.)	3110-3420
L. Cretaceous (Comanche series)	3420-3810

Remarks: Electric log and samples 1230-3780 ft. Formational tops by Mrs. Esther R. Applin.

SEMINOLE COUNTY

Operator: C. E. Prince, et. al. (J. R. Sealy)  
 Landowner: Spindle Top No. 3 (Lena R. Sealy)  
 Location: L.L. 142, L.D. 21

G.G.S. No. 513 D.P. No. 41  
 Elevation: 100 ft. G.L.  
 Total Depth: 7620 ft.  
 Completed: June 15, 1962

Remarks: Electric log, gamma ray-neutron log, temperature log,  
Casingcollar log and perforating record, and samples 5-7550 ft.

SEMINOLE COUNTY

Operator: GFA Oil and Gas Corp.	G.G.S. No. D.P. No. 54
Landowner: Spindle Top No. 4 (J. R. Sealy)	Elevation:
Location: 330 ft. N. and 1482 ft. W. of S.E. corner of L.L. 214, L.D. 21	Total Depth: 247 ft.
	Completed: July 18, 1958

SEMINOLE COUNTY

Operator: J. R. Sealy	G.G.S. No. D.P. No. 55
Landowner: Spindle Top No. 5	Elevation: 98 ft. G.L.
Location: 450 ft. N. and 150 ft. W. of S.E. corner of L.L. 214, L.D.21	Total Depth: 5318 ft.
	Completed: December 31, 1962

Remarks; Electric log.

SEMINOLE COUNTY

Operator: Humble Oil and Refining Co.	G.G.S. No. 654 D.P. No. 61
Landowner: J. R. Sealy No. 1	Elevation: 96 ft. D.F.
Location: 795 ft. N. and 170 ft. E. of S.W. corner of L.L. 42, L.D. 14	Total Depth: 4500 ft.
	Completed: January 12, 1961

Remarks: I.E.S. log, proximity microlog and samples 73-4500 ft.

SEMINOLE COUNTY

Operator: C. E. Prince	G.G.S. No. D.P. No. 74
Landowner: Gibson Construction Co. No. 1	Elevation: 119 ft. G. L.
Location: 660 ft. N. and 660 ft. W. of S.E. corner of L.L. 170, L.D. 14	Total Depth: 386 ft.
	Completed: June 3, 1964

STEWART COUNTY

Operator: W. O. Heinze and A.N. Spanel	G.G.S. No. 716 D.P. No. 56
Landowner: W. C. Bradley Co., Inc. No. 1	Elevation:
Location: 1350 ft. S. and 1150 ft. E. of N.W. corner of L.L. 135, L.D. 21	Total Depth: 2916 ft.
	Completed: September 5, 1958

Remarks: I.E.S. log, microlog and samples 160-2910 ft.

SUMTER COUNTY

Operator: Georgia Oil and Gas Co., Inc.  
 Landowner: Smith Moore No. 1  
 Location: N. of Shiloh Church and 0.5 mi. N.E.  
 of Shiloh School; L.L. 194, L.D. 26

G.G.S. No. 296 D.P. No. 66  
 Elevation: 530 ft. G. L.  
 Total Depth: 2998 ft.  
 Completed: 1952

Remarks: Samples 2-154 ft.

SUMTER COUNTY

Operator: Flinn-Austin & Co.  
 Landowner: Walter F. Stevens No. 1  
 Location: 330 ft. N. and 330 ft. W. of S.E.  
 corner of L.L. 210, L.D. 17

G.G.S. No. 442 D.P. No. 4  
 Elevation: 431 ft. G. L.  
 Total Depth: 5240 ft.  
 Completed: December 2, 1955

Description	Depth
M. Eocene (Tallahatta Fm.)	0- 75
L. Eocene (Wilcox Gp.)	75- 155
Paleocene (Clayton Fm.)	155- 275
In U. Cretaceous (Providence Sand and Ripley Fm.)	275- 900
In U. Cretaceous (Cusseta Fm., Blufftown Fm. and Eutaw Fm.)	900-1635
In U. Cretaceous (Tuscaloosa Fm.)	1635-2430
Samples not worked	2430-5240

Remarks: Samples 0-5120 ft. Formational tops by Dr. S. M. Herrick.

SUMTER COUNTY

Operator: W. B. Flinn  
 Landowner: Walter Sullivan No. 1  
 Location: 335 ft. S. and 335 ft. W. of N.E.  
 corner of L.L. 211, L.D. 17

G.G.S. No. D.P. No. 48  
 Elevation: 375 ft. G. L.  
 Total Depth: 2250 ft.  
 Completed: May 8, 1956

SUMTER COUNTY

Operator: Ernest Hill, et. al.  
 Landowner: Smith Moore No. 1-R  
 Location: 7.5 mi. N.E. of Americus, Ga.; 0.8 mi.  
 E. of Shiloh Church and School;  
 L.L. 193, L.D. 26

G.G.S. No. 725 D.P. No. 58  
 Elevation: 532 ft. D.F.  
 Total Depth: 2980 ft.  
 Completed: November 25, 1960

Remarks: Electric log , contact log and samples 808-2326 ft. and 2680-2980 ft.

TALBOT COUNTY

Operator: Charles H. Cutler  
 Landowner: Rena W. Cook No. 1  
 Location: 722 ft. N. 16 deg. 57 min. W. of  
 a certain signal light on the south  
 side of Central of Ga. R.R. tracks;  
 L.L. 50, L.D. 10

G.G.S. No. D.P. No. 62  
 Elevation: 422 ft. G.L.  
 Total Depth: 94 ft.  
 Completed: October 24, 1960

TATTNALL COUNTY

Operator: C. E. Prince  
 Landowner: O. C. Ray No. 1  
 Location: 7 mi. N.W. of Glennville, Ga.;  
 960 ft. N. and 250 ft. W. of  
 S.E. corner of GMD 40

G.G.S. No. D.P. No. 76  
 Elevation:  
 Total Depth: 20 ft.  
 Completed: 1967

TELFAIR COUNTY

Operator: Telfair Oil Co.  
 Landowner: H. G. Samples No. 1  
 Location: 0.8 mi. S.W. of Scotland, Ga.;  
 L.L. 303, L.D. 15

G.G.S. No. D. P. No.  
 Elevation: 130 ft. G.L.  
 Total Depth: 450 ft.  
 Completed: 1920?

TELFAIR COUNTY

Operator: Dixie Oil Co.  
 Landowner: Fitzsimmons No. 1  
 Location:

G.G.S. No. D.P. No.  
 Elevation:  
 Total Depth: 3384 ft.  
 Completed: August, 1923

TELFAIR COUNTY

Operator: Parsons & Hoke  
 Landowner: Henry Spurlin No. 1  
 Location: 588 ft. from S.W. line and 410 ft.  
 from S.E. line of L.L. 260, L.D. 7

G.G.S. No. 375 D.P. No. 31  
 Elevation: 236 ft. G.L.  
 Total Depth: 4008 ft.  
 Completed: October 25, 1953

Description	Depth
No samples	0- 30
In Miocene	30- 225
Oligocene	225- 315
In U. Eocene (Ocala Ls.)	315- 510
No samples	510- 810
In M. Eocene (Claiborne Gp.)	810- 870
No samples	870-1344
In L. Eocene and Paleocene	1344-1810
No samples	1810-1990
In U. Cretaceous (post-Tuscaloosa Fm.)	1990-2900

In U. Cretaceous (Tuscaloosa Fm.)	2900-3590
L. Cretaceous ? (Comanche series ?)	3590-4008

Remarks: Electric log, hycalog (lithologic log and drilling rate) and samples 30-4000 ft. Formational tops by Dr. S. M. Herrick. Top of U. Cretaceous, as based on electric log, probably at approximate depth of 1870 ft.

#### TOOMBS COUNTY

Operator: Tropic Oil Co.	G.G.S. No. 95	D.P. No.
Landowner: Gibson No. 1	Elevation: 198 ft. G.L.	
Location: 4.5 mi. S. of R.R. in Lyons, Ga. via U. S. Hwy. 1, 1.4 mi. W. of U. S. Hwy 1 via E. W. dirt road on N. side of said road at top of prominent hill	Total Depth: 3681 ft.	Completed: June, 1945

Description	Depth
No samples	0- 375
In Miocene	375- 448
Oligocene	448- 486
No samples	486- 506
In U. Eocene (Ocala Ls.)	506- 760
M. Eocene (Lisbon Fm.)	760-1090
M. Eocene (Tallahatta Fm.)	1090-1310
In L. Eocene ? (Wilcox Gp.)	1310-1455
Paleocene (Clayton Fm.)	1455-1700
U. Cretaceous ?	1700-1851
U. Cretaceous (post-Tuscaloosa Fm.)	1851-2670
U. Cretaceous (Tuscaloosa Fm.)	2670-3510
L. Cretaceous ? (Comanche series ?)	3510-3663
Basement complex	3663-3681

Remarks: Electric log and samples 375-3661 ft. Formational tops by Dr. S. M. Herrick.

#### TOOMBS COUNTY

Operator: Tropic Oil Co.	G.G.S. No. 146	D.P. No. 6
Landowner: B. M. Brown No. 1	Elevation: 198 ft. G. L.	
Location: 8 mi. S.E. of Vidalia, Ga.; GMD 1536	Total Depth: 3185 ft.	Completed: September 25, 1947

Description	Depth
No samples	0- 30
In Miocene	30- 655
Oligocene	655- 795
U. Eocene (Ocala Ls.)	795-1020
M. Eocene (Claiborne Gp.)	1020-1350
L. Eocene (Wilcox-Midway Gp.)	1350-1935
U. Cretaceous	1935-3145
U. Cretaceous (possible L. Taylor Age)	2400-2855
U. Cretaceous (in possible Eagle Ford Age)	2855-3100
U. Cretaceous (Tuscaloosa Fm.)	3100-3145

Remarks: Samples 30-3145 ft. Formational tops by Dr. S. M. Herrick.

#### TOOMBS COUNTY

Operator: Paul B. Guenzel  
 Landowner: T. M. and W. B. Green No. 1  
 Location: 1905 ft. S. and 1774 ft. W. of N.E.  
 corner of Green lease; GMD 1536  
 and 1823

G.G.S. No. D.P. No. 73  
 Elevation: 241 ft. G.L.  
 Total Depth: 3665 ft.  
 Completed: January 9, 1964

#### TREUTLEN COUNTY

Operator: Rose and Ray  
 Landowner: James Fowler No. 1  
 Location: 6 mi. W. of Soperton, Ga.;  
 L.L. 221, GMD 1386

G.G.S. No. 127 D.P. No.  
 Elevation: 291 ft.  
 Total Depth: 2125 ft.  
 Completed: October? 1940

Description	Depth
No samples	0-765
In M. Eocene (Claiborne Gp.)	765-1085
L. Eocene (Wilcox Gp.)	1085-1255
Paleocene (Clayton Fm.)	1255-1315
In U. Cretaceous (post-Tuscaloosa Fm.)	1315-2005
No samples	2005-2035
In U. Cretaceous (Tuscaloosa Fm.)	2035-2125

Remarks: Lithologic log, samples 765-2125 ft. Formational tops by Dr. S. M. Herrick.

#### TREUTLEN COUNTY

Operator: Barnwell Drilling Co.  
 Landowner: James Gillis No. 1  
 Location: 1950 ft. N. and 14 deg. E. of  
 N.E. corner of intersection of  
 Hwy. 46 and Hwy 227, Soper-  
 ton GMD 1386

G.G.S. No. 730 D.P. No. 67  
 Elevation: 351 ft. G.L.  
 Total Depth: 3240 ft.  
 Completed: August 24, 1961

Description	Depth
In M. Eocene (Lisbon Fm.)	640- 796
M. Eocene (Tallahatta Fm.)	796-1030
L. Eocene (Wilcox Gp.)	1030-1131
Paleocene (Midway Gp.)	1131-1330
U. Cretaceous	1330-2491
U. Cretaceous (Atkinson Fm.)	1825-2380
U. Cretaceous (L. Tuscaloosa Fm.)	2380-2491
L. Cretaceous (Comanche series)	2491-3053
Triassic ?	3053-3240

Remarks: I.E.S. log and samples 640-3230 ft. Formational tops by Dr. S. M. Herrick. Formational tops picked from I.E.S. log.

#### TREUTLEN COUNTY

Operator: McCain and Nicholson	G.G.S. No. 789 D.P. No. 68
Landowner: James Gillis No. 1	Elevation: 349 ft. D.F.
Location: From Vidalia, Ga., go N. on Ga. Hwy. 297 (Church St.) for 8 mi. to junction Ga. Hwy 298; thence N.W. 4.6 mi. along Ga. Hwy. 298; drill sight is 500 ft. S. of Ga. Hwy. 298; GMD 1386	Total Depth: 3180 ft.
	Completed: June 11, 1962

Description	Depth
No samples	0- 20
In Miocene	20- 260
No samples	260- 270
In Oligocene	<del>270</del> 460
U. Eocene (Ocala Ls.)	460- 490
No samples	490- 530
In M. Eocene (Lisbon Fm.)	530- 815
M. Eocene (Tallahatta Fm.)	815-1250
L. Eocene (Wilcox Gp.)	1250-1490
Paleocene (Clayton Fm.)	1490-1660
U. Cretaceous (post-Tuscaloosa Fm.)	1660-2025
U. Cretaceous (U. Tuscaloosa Fm.)	2025-2455
U. Cretaceous (M. Tuscaloosa Fm.)	2455-2620
U. Cretaceous (L. Tuscaloosa Fm.)	2620-2650
L. Cretaceous (Comanche series)	2650-3166
Basement complex	3166-3180

Remarks: I.E.S. log, sonic log and samples 20-3180 ft. Formational tops by Dr. S. M. Herrick.

#### TREUTLEN COUNTY

Operator: McCain and Nicholson	G.G.S. No. 964 D.P. No. 70
Landowner: James Gillis No. 2	Elevation: 344 ft. G.L.
Location: 2100 ft. S. 45 deg. E. from Gillis No. 1; Soperton GMD 1386	Total Depth: 3253 ft.
	Completed: July 26, 1964



Remarks: I. E. S. log, Baroid log (lithologic and drilling rate) and samples 90-3200 ft.

#### TREUTLEN COUNTY

Operator: F. W. McCain and John Becsi  
Landowner: James Gillis No. 1  
Location: 1.5 mi. N. of Soperton, Ga. and  
330 ft. E. of Hwy. 221; GMD 1386

G.G.S. No. D.P. No. 75  
Elevation: 358 ft. G.L.  
Total Depth: 3100 ft.  
Completed: 1967

#### TWIGGS COUNTY

Operator: R. O Haubelt and W.W. Walke  
Landowner: Cline B. Patrick No. 1  
Location: 330 ft. S.E. of public rd. and 330 ft.  
N.W. of S.W. line of L.L. 16, L.D. 27,  
"Hammock" GMD 1322

G.G.S. No. D.P. No. 59  
Elevation:  
Total Depth: 300 ft.  
Completed: 1960

#### WALKER COUNTY

Operator: T. P. Posey  
Landowner: Vernon Close No. 1  
Location: 225 ft. E. and 660 ft. S. of N.W.  
corner of L.L. 5, L.D. 7

G.G.S. No. 382 D.P. No. 28  
Elevation: 870 ft. G. L.  
Total Depth: 1925 ft.  
Completed: August 11, 1953

Description	Depth
Mississippian (Fort Payne Ch.)	0- 160
No samples	160- 185
In Devonian (Chattanooga Sh.)	185- 235
Silurian	235-1040
Ordovician (Maysville-Trenton Ls.)	1040-1925

Remarks: Samples 10-1920 ft. Formational tops by Vaux Owen Jr.

#### WALKER COUNTY

Operator: H. L. Chapman  
Landowner: J. H. Fitzpatrick No. 1  
Location: 330 ft. S. and 330 ft. E. of N.W.  
corner of L.L. 251, L.D. 26

G.G.S. No. 344 D.P. No. 29  
Elevation: 900 ft. D.F.  
Total Depth: 2064 ft.  
Completed: December 24, 1954

Description	Depth
Mississippian (Floyd Sh.)	0- 990
Mississippian (Gasper-St. Genevieve Ls.)	0- 780
Mississippian (St. Louis Ls.)	780- 892
Mississippian (Fort Payne Ch.)	892- 990
Devonian (Chattanooga Sh.)	990-1008
Devonian (Armuchee Ch.)	1008-1046
Silurian (Red Mountain Fm.)	1046-1106
Samples not worked	1106-1384

Remarks: Samples 42-1384 ft.

#### WALKER COUNTY

Operator: T. O. Posey	G.G.S. No.	D.P. No. 32
Landowner: Vernon Close No. 1-B	Elevation:	815 ft.
Location: 250 ft. S. and 880 ft. W. of N.E. corner of L.L. 33, LD. 7, sect. 4	Total Depth:	3008 ft.
	Completed:	April 5, 1954

Remarks: Radioactivity log.

#### WALKER COUNTY

Operator: T. O. Posey	G.G.S. No. 477	D.P. No. 37
Landowner: Calvin Fowler No. 1	Elevation:	830 ft. G.L.
Location: 1250 ft. S. 250 ft. E. of N.W. corner of L.L. 270, L.D.7	Total Depth:	2490 ft.
	Completed:	October 14, 1954

Remarks: Samples 10-2490 ft.

#### WARE COUNTY

Operator: Waycross Oil and Gas Co.	G.G.S. No. 63	D.P. No.
Landowner: Fredel No. 1	Elevation:	130 ft. G.L.
Location: 10 mi. S. of Waycross, Georgia, at Fredel, Georgia, in L.L. 443, L.D. 8	Total Depth:	3040 ft.
	Completed:	March, 1918

Remarks: Driller's log, lithologic log and samples 100-3000 ft.

#### WARE COUNTY

Operator: Merica Oil Co.	G.G.S. No.	D.P. No.
Landowner:	Elevation:	135 ft. G. L.
Location: 600 ft. S. and 600 ft. E. of N.W. corner of L.L. 465, L.D.8	Total Depth:	4200 ft.
	Completed:	1957

#### WASHINGTON COUNTY

Operator: Middle Georgia Oil & Gas Co.	G.G.S. No. 223	D.P. No.
Landowner: Lillian B. No. 1	Elevation:	480 ft. G. L.
Location: 12 mi. N.W. of Sandersville, Ga.	Total Depth:	605 ft.
	Completed:	January 1, 1921

Description	Depth
No samples	0- 300
In U. Cretaceous (Tuscaloosa Fm.)	300- 392
Basement complex	392- 605

Remarks: Samples 300-605 ft. Formational tops by Dr. S. M. Herrick.

#### WAYNE COUNTY

Operator: Oil Prospecting Co.	G.G.S. No.	D.P. No.
Landowner: C. A. Gilson No. 1	Elevation:	74 ft. G.L.
Location: 1 mi. S. of Doctortown, Ga.;	Total Depth:	1901 ft.
L.L. 161	Completed:	May, 1906

Remarks: Lithologic log.

#### WAYNE COUNTY

Operator: California Co.	G.G.S. No. 52	D.P. No.
Landowner: Brunswick Peninsula Corp. No. 1	Elevation:	60 ft. G.L.
Location: 625 ft. N. and 2500 ft. E. in	Total Depth:	4626 ft.
L.L. 7, GMD 333	Completed:	December 17, 1944

Description	Depth
No samples	0- 74
In Miocene	74- 680
Oligocene	680- 739
U. Eocene (Ocala Ls.)	739- 895
M. Eocene (Claiborne Gp.)	895-2205
L. Eocene (Wilcox Gp.)	2205-2545
Paleocene (Clayton Fm.)	2545-2862
U. Cretaceous (Navarro Age)	2862-3497?
U. Cretaceous (Taylor Age)	3497?-3571
U. Cretaceous (Austin Age)	3571-3889
U. Cretaceous (U. Atkinson Fm.)	3889-4308
U. Cretaceous (L. Atkinson Fm.)	4308-4462
L. Cretaceous (Comanche series)	4462-4570
Pre-Cretaceous ?	4570-4626

Remarks: Electric log, petrographic analysis of core and samples 74-4625 ft. Formational tops from 0-2862 ft. by Dr. S. M. Herrick and from 2862-4626 ft. by Mrs. Esther R. Applin.

#### WAYNE COUNTY

Operator: Harry Byars	G.G.S. No.	D.P. No.
Landowner: Dean No. 1	Elevation:	175 ft. G. L.
Location: L.L. 127, L.D. 3, 4.5 mi.	Total Depth:	345 ft.
N.W. of Jesup, Ga.	Completed:	1945

### WAYNE COUNTY

Operator: Harry Byars  
 Landowner: Dean No. 2  
 Location: 300 ft. N.W. of Byars-Dean  
 No. 1; L.L. 127, L.D. 3

G.G.S. No. D.P. No.  
 Elevation: 175 ft. G. L.  
 Total Depth: 1965 ft.  
 Completed: February 6, 1945

### WAYNE COUNTY

Operator: Humble Oil and Refining Co.  
 Landowner: Union Bag and Paper Co. No. 1  
 Location: 14,150 ft. E. of N.E. corner of  
 L.L. 54, "Gardi" GMD 333;  
 20,587 ft. S. 44 deg. 39 min.  
 8 sec. W. to USC and GS Sta.  
 "Granger"

G.G.S. No. 651 D.P. No. 60  
 Elevation: 49 ft. G.L.  
 Total Depth: 4552 ft.  
 Completed: November 22, 1960

Description	Depth
Pleistocene	0- 40
Miocene	40- 450
Oligocene	450- 500
U. Eocene (Ocala Ls.)	500- 910
M. Eocene	910-2030
L. Eocene (Wilcox Gp.)	2030-2440
Paleocene (Clayton Fm.)	2440-2850
U. Cretaceous (Navarro Age)	2850-3180
U. Cretaceous (Taylor Age)	3180-3440
U. Cretaceous (Austin Age)	3440-3695
U. Cretaceous (Atkinson Fm.)	3695-4204
L. Cretaceous (Comanche series)	4204-4356
Basement complex	4356-4552

Remarks: I.E.S. log, proximity-microlog, sonic log and samples 40-4552 ft. Formational tops by Dr. S. M. Herrick.

### WHEELER COUNTY

Operator: Telfair Oil Co.  
 Landowner: Dugas No. 1  
 Location: A few miles S. of Alamo, Ga.

G.G.S. No. D.P. No.  
 Elevation:  
 Total Depth: 2100 ft.  
 Completed: 1919

### WHEELER COUNTY

Operator: Dixie Oil Co.  
 Landowner: Wilcox No. 1

G.G.S. No. 221 D.P. No.  
 Elevation: 240 ft. G.L.

Location: N. ¼ L.L. 219, L.D. 10;  
near McRae, Ga.

Total Depth: 3384 ft.  
Completed: August 9, 1923

Remarks: Lithologic log and samples 338-3216 ft.

#### WHEELER COUNTY

Operator: Parsons and Hoke  
Landowner: Clyde E. Hinton No. 1  
Location: 240 ft. S. and 172 ft. W. of N.E.  
corner of L.L. 288, L.D. 10

G.G.S. No. D.P. No. 34  
Elevation: 206 ft. D.F.  
Total Depth: 3630 ft.  
Completed: October 26, 1953

Remarks: Electric log.

#### WHEELER COUNTY

Operator: T. R. Davis (Natural Resources Corp.)  
Landowner: Charles M. Jordan Heirs No. 1  
Location: 330 ft. N. and 330 ft. W. of S.E.  
corner of L.L. 486, L.D. 7

G.G.S. No. 336 D.P. No. 26 & 50  
Elevation: 195 ft. D.F.  
Total Depth: 4002 ft.  
Completed: June 23, 1956

Description	Depth
Miocene	0- 360
Oligocene	360- 450
U. Eocene (Ocala Ls.)	450- 860
M. Eocene (Claiborne Gp.)	860-1330
In L. Eocene and Paleocene	1330-1780
U. Cretaceous (Providence Sand and Ripley Fm.)	1780-2180
Samples not worked	2180-3995

Remarks: Electric log, microlog, baroid log (lithologic log and drilling rate) and samples 0-3995 ft. Formational tops by Dr. S. M. Herrick. This is an OWDD with an original TD of 2268 ft.

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# GRAPH OF NUMBER OF WELLS DRILLED VERSUS YEAR DRILLED

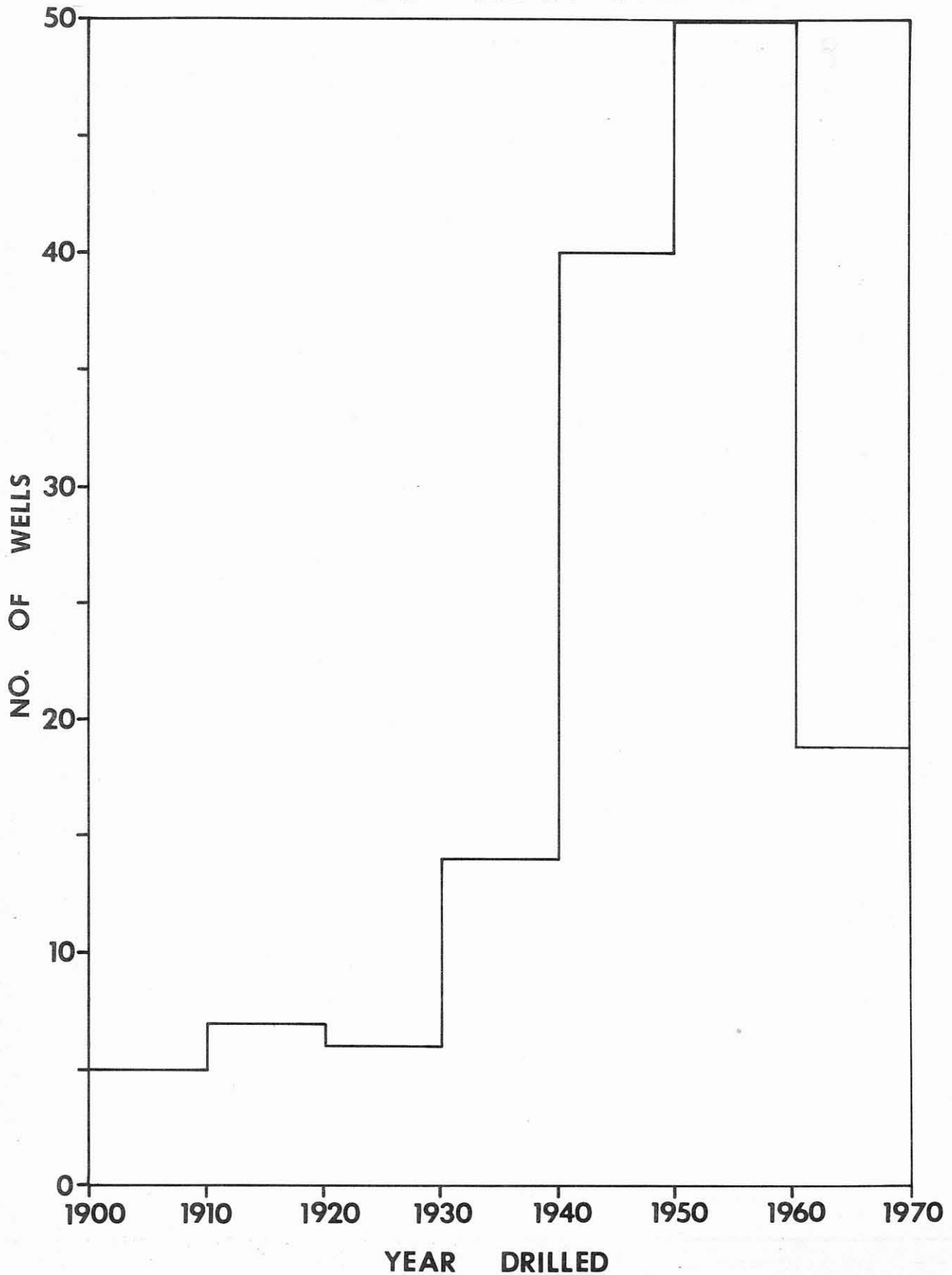


Fig. No. 1

# GRAPH OF NUMBER OF WELLS DRILLED VERSUS DEPTH DRILLED

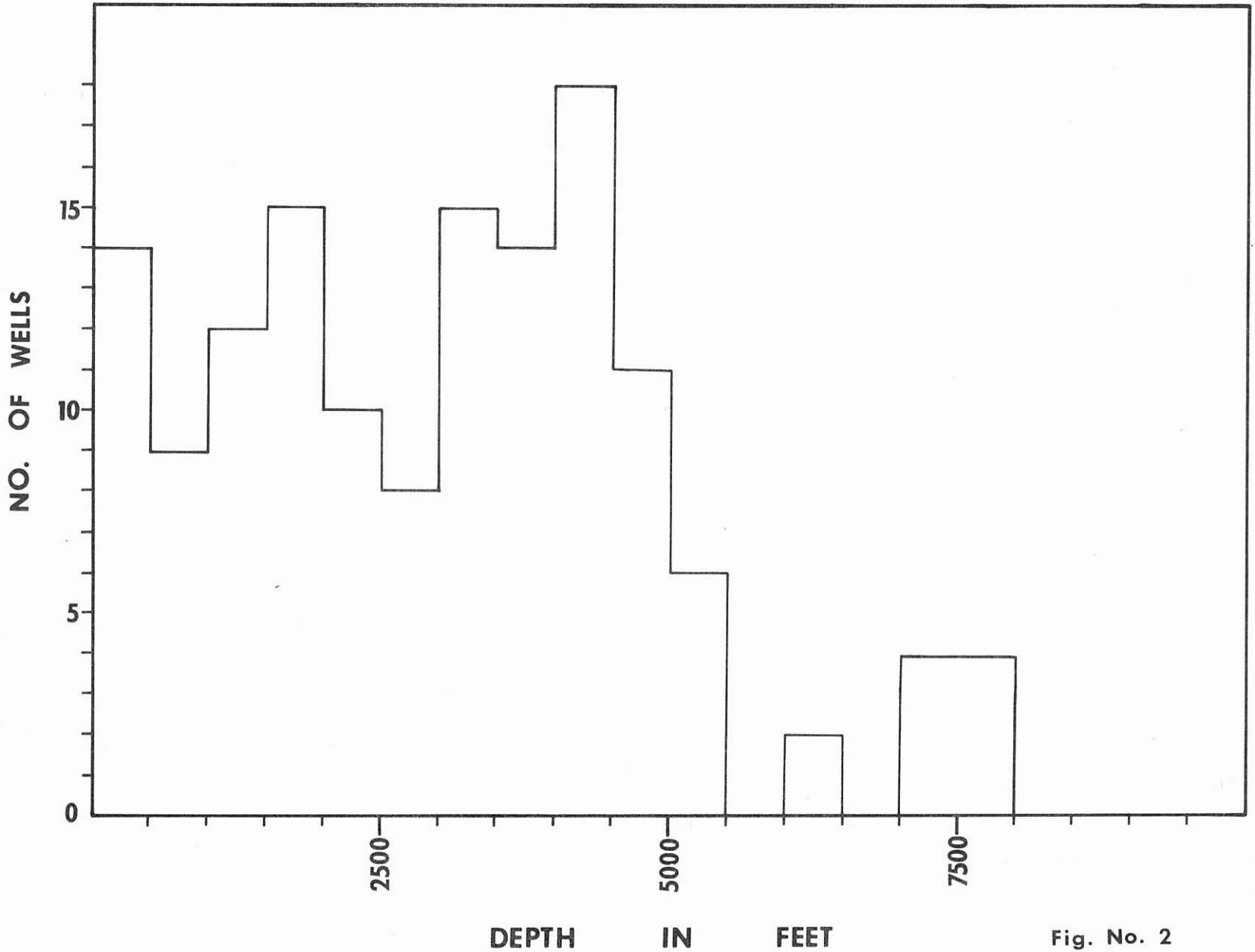


Fig. No. 2



ERA	SYSTEM	SERIES	GROUP, FORMATION AND MEMBER			
CENOZOIC	Quaternary	Recent and Pleistocene	Recent Deposits Undifferentiated Pleistocene Terrace Material			
	Tertiary	Pliocene	Charlton Fm.			
		Miocene	Duplin Marl Hawthorn Fm. Tampa Ls.			
		Oligocene	Vicksburg Gp.	Suwanee Ls.-Flint River Fm. Byram Fm. Cooper Marl		
		Eocene	Jackson Gp.	WESTERN GA. & DOWN DIP	CENTRAL & EASTERN GA.	
				Ocala Ls. Tivola Tongue Mem.	Sandersville Ls. Mem. Irwinton Sd. Mem. Twiggs Cl. Mem.	Barnwell Fm.
			Claiborne Gp.	WESTERN GA. Lisbon Fm. Tallahatta Fm.	CENTRAL & EASTERN GA. McBean Fm.	DOWN DIP FACIES Avon Park Ls. Lake City Ls.
		Wilcox Gp.	WESTERN GA.	CENTRAL & EASTERN GA.	DOWN DIP FACIES	
			Hatchetigbee Fm. Bashi Marl Mem. Tuscahoma Fm. Nanafalia Fm.	Undifferentiated	Oldsmar Ls.	
	Paleocene	Midway Gp.	Clayton Fm.			
MESOZOIC	Cretaceous	Upper	Navarro Gp.	WESTERN & CENTRAL	EASTERN GA.	DOWN DIP FACIES
			Taylor Gp.	Providence Sd. Perote Sd. Mem. Ripley Fm.	Undifferentiated	Lawson Ls.
			Austin Gp.	Cusseta Sd. Blufftown Fm.		
			Eagle Ford Gp. & Woodbine Gp.	Eutaw Fm. Tuscaloosa Fm.		Atkinson Ls.
		Lower	Comanche Gp.	Undifferentiated		
	Jurassic	Not Recognized				
	Triassic	Newark Gp.				
PALEOZOIC	Permian	Not Present				
	Pennsylvanian	Lookout Fm.				
	Mississippian	Floyd Sh. & Undiff. Limestones Ft. Payne Ch.				
	Devonian	Chattanooga Sh. Armuchee Ch.				
	Silurian	Red Mt. Fm.				
	Ordovician	Sequatchie Fm. Chickamauga Ls.				
	Cambrian	Knox Dol. Conasauga Ls. Rome Fm. Shady Dol. Weisner Qtzite				
PRECAMBRIAN		Undifferentiated Crystalline Rocks				

Table 1.

## SEISMIC SURVEYS

Operator	Contractor	Method	Date	Permit No.
The Pure Oil Co.	Offshore Exploration Group, Inc.	Reflection	Aug. 1960-Jan. 1961	1
Pan American Petr. Corp.	Geophysical Service, Inc.	Reflection	Aug. 1960-Nov. 1960	2
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Reflection	May 1962-Aug. 1962	3
The California Oil Co.	Independent Exploration Co.	Gravity and Echo Sounder	April 1964-May 1964	4
The California Oil Co.	Western Geophysical Co. of Amer.	Reflection & Refraction	Aug. 1964-Sept. 1964	5
Texaco, Inc.	Geophysical Service, Inc.	Reflection	Sept. 1966-Oct. 1966	6
Cities Service Oil Co.	Geophysical Service, Inc.	Reflection	Sept. 1966-Oct. 1966	6
Mobil Oil Corp.	Mobil Oil Corp.	Reflection	Sept. 1967-Nov. 1967	7
Ray Geophysical Div.	Ray Geophysical Div.	Marine Vibroseis	Oct. 1967-Nov. 1967	8
Triangle Refineries, Inc.	Triangle Refineries, Inc.	Drilling & Sampling	Jan. 1968-April 1968	9
Continental Oil Co.	Delta Exploration Co., Inc.	Vibroseis	March 1968-May 1968	10
Shell Oil Co.	Shell Oil Co.	Sparker	June 1968-Aug. 1968	11
Shell Oil Co.	Shell Oil Co.	Sparker	Sept. 1968-Sept. 1968	12
Mobil Oil Co.	Mobil Oil Co.	Seismic, Gravity and Magnetic	Oct. 1968-Nov. 1968	13
McClure Oil Co.	Teledyne Exploration Co.	Sparker	May 1969-May 1969	14
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Vibroseis	April 1969-June 1969	15
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Vibroseis	June 1969-Aug. 1969	16
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Vibroseis	Aug. 1969-Oct. 1969	17
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Vibroseis	Oct. 1969-Dec. 1969	18
Pan American Petr. Corp.	Digicon's Atlantic Seal Marine	Air Gun	Nov. 1969-Jan. 1970	19
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Vibroseis	Dec. 1969-Feb. 1970	20
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Vibroseis	Feb. 1970-April 1970	21
Self-Potential Geophysical Co.	Self-Potential Geophysical Co.	Self-Potential	Feb. 1970-Feb. 1970	22
U. S. Geological Survey	Marine Resources Inc.	Air Gun	Mar. 1970-Mar. 1970	23
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Vibroseis	April 1970-June 1970	24
Pan American Petr. Corp.	Western Geophysical Co. of Amer.	Vibroseis	July 1970-Sept. 1970	25

**STATE MINERAL LEASING COMMISSION**

Department of Mines  
19 Hunter Street, S.W.  
Atlanta, Georgia 30334

**APPLICATION FOR EXPLORATION PERMIT**

DATE:.....

(Name and Address of Applicant)

PHONE:.....

doing exploration work for.....

(Name and Address of Company or Individual for Whom Exploration Work is to be conducted)

hereby applies for a permit to conduct geological or geophysical explorations or other surveys and investigations for a period of not less than seven (7) days by the..... method in the following area owned by the State of Georgia or within the jurisdiction of the State of Georgia described as follows:.....

for a period of..... (not less than seven days) beginning..... and ending....., these dates are inclusive.

NUMBER OF APPLICANT'S FIELD PARTY:.....

NAME OF FIELD PARTY CHIEF OR MANAGER:.....

NAME AND LOCATION OF DOCKS WHERE VESSEL MAY BE BOARDED BY INSPECTOR.....

PHONE:.....

NAME OF VESSEL..... CALL LETTERS:.....

**Stipulation:**

The permit issued hereunder is subject to all rules and regulations promulgated by the State Mineral Leasing Commission pursuant to statute (Ga. Laws 1945, pp. 352-354; 1959, pp. 270-274). Copy of said rules being attached hereto and by reference made a part hereof.

Above stipulation agreed to and application made by:

Signed, sealed and delivered in the presence of:..... (Name of Applicant)

BY:..... (Signature)

Notary Public

(Title)

**EXPLORATION PERMIT**

PERMIT NO.....

Pursuant to the foregoing application, I, J. H. Auvil, Jr., State Geologist, by virtue of the authority vested in me by the State Mineral Leasing Commission, do hereby authorize the applicant therein to conduct explorations on the area therein described for the period therein requested.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this the..... day of....., 19.....

STATE MINERAL LEASING COMMISSION

By:..... STATE GEOLOGIST

Note 1: Applicant will be the person, firm or corporation who, or whose officers, agents or employees, shall have the right to direct, supervise and control the details of the operations to be conducted under the permit herein applied for.

Note 2: This form is to be submitted in sextuplet, two executed copies of which will be returned to applicant.

# OIL WELLS

ACT NO. 317—S.B. NO. 315



1958  
SESSION  
OF THE  
GENERAL ASSEMBLY

## AN ACT

To implement Article VII, Section I, Paragraph II, Subparagraph I of the Constitution; to provide for the payment of two hundred and fifty thousand dollars (\$250,000.00) to the first person, firm or corporation, or combination thereof, which puts down and brings in the first commercial oil well in the State of Georgia; to provide for the required production of such oil well to be one hundred (100) barrels of oil per day at least, and for the determination as to whether such well is producing this amount by the Director of the State Department of Mines, Mining and Geology; to provide for the distribution of said amount between the company or individual who drills or causes to be drilled said well, the contractor who furnishes the equipment, workmen and employees actually engaged in the job, the mineral and/or property owner where the well is drilled; to provide for the payment of such amount by the Governor, and the method of payment; and for other purposes.  
**BE IT ENACTED BY THE GENERAL ASSEMBLY OF**

**THE STATE OF GEORGIA**, and it is hereby enacted by authority of the same, as follows:

Section 1. There shall be paid the sum of two hundred and fifty thousand dollars (\$250,000.00) to the first person, firm or corporation, or combination thereof, which puts down and brings in the first commercial oil well in this State, subject to the following provisions: Such well must produce at least one hundred (100) barrels of oil per day, and the determination as to whether such well is producing this amount is hereby vested in the Director of the State Department of Mines, Mining and Geology.

Section 2. The said amount of \$250,000.00 shall be distributed as follows: (1) Fifty Thousand dollars (\$50,000.00) to the mineral and/or property owner, or owners, where the well is drilled, to be divided, where there are multiple owners of the minerals, among them in the proportion of their respective interests therein; provided, however, that the owner or owners, of mineral interest which does not include oil shall not share in said payment. (2) One Hundred Thousand Dollars (\$100,000.00) to the company or individual, or combination of persons, firms and corporations, who drills

or causes to be drilled the said oil well, being those persons, firms or corporations who own the working interest in the well as "working interest" is known and defined in the oil industry. (3) Eighty Seven Thousand Five Hundred Dollars (\$87,500.00) to the contractor who furnishes the equipment for the drilling of said well, and who performs the job of drilling and completion of the well, provided that if there are more than one contractor the said sum shall be divided only between or among those who engage in drilling the well and in completing same for production and who carry out and complete their contracts. (4) Twelve Thousand Five Hundred Dollars (\$12,500.00) to be equally divided among the workmen and employees actually engaged in the job of drilling and completing the well, being those persons certified to the Governor by the contractor or contractors, or owners of the working interest, or both, as being his or their bonafide employees who were working on the job when the drilling, or completion of the well for production, or the contractor's contract, was completed, or who otherwise carried out and completed their employment.

Section 3. The Governor shall be, and he is hereby authorized, to make the payments provided for herein from the surplus and/or contingent funds of the State.

Section 4. The provisions of this Act are severable, and if any provision herein shall be held unconstitutional, or to be for any reason inoperative, by any court of competent jurisdiction, the decision shall not affect or impair any of the remaining provisions.

Section 5. All laws and parts of laws in conflict with this Act are hereby repealed.

Approved March 25, 1958.

**RULES AND REGULATIONS**  
**Governing**  
**Geological, Geophysical**  
**And Other**  
**Surveys and Investigations**



**STATE MINERAL LEASING COMMISSION**  
Department of Mines  
19 Hunter Street, S.W.  
Atlanta, Georgia 30334

**RULES AND REGULATIONS GOVERNING GEOLOGICAL, GEOPHYSICAL AND OTHER SURVEYS AND INVESTIGATIONS IN AREAS WITHIN THAT PORTION OF THE ATLANTIC OCEAN UNDER THE JURISDICTION OF THE STATE OF GEORGIA AS PROMULGATED BY THE STATE MINERAL LEASING COMMISSION, PURSUANT TO STATUTE (GA. LAWS, 1945, pp. 352-354; 1959, pp. 270-274). THESE RULES SHALL BECOME EFFECTIVE THE 22nd DAY OF JUNE, 1960.**

**I.**

Whenever the word "explorations" is referred to in these Rules, it shall mean geological, geophysical and other surveys and investigations, including seismic methods for the discovery and location of oil, gas or other mineral prospects, and which may or may not involve the use of explosives. The word "seismic explorations" shall mean any geophysical exploration method which involves the use of explosives. The word "shot" as used in these Rules shall mean the use and detonation of powder, dynamite, nitroglycerin or other explosives.

**II.**

No explorations on unleased areas within that portion of the Atlantic Ocean under the jurisdiction of the State of Georgia shall be conducted until permit therefor has been issued by the State Geologist. Applications for such permit shall be made upon forms prescribed by the State Geologist by the person, firm or corporation who, or whose offices, agents or employees, shall have the right to direct, supervise and control the details of the exploration operations to be conducted under the permit applied for and showing thereon the name and address of the company or individual for whom the exploration is to be conducted. Before commencing exploration operations under any permit, each exploration party shall give notice to the State Geologist by letter or telegram of the date and place such operations are to be commenced. Such notice shall be given so that it will be received by the State Geologist at least one week in advance of the beginning of operations. Im-



mediately after the expiration date of a permit the permittee thereunder shall file with the State Geologist a report under oath in form designated by the State Geologist showing all days during which any part of the operations necessary or incident to such survey, investigation or explorations, including locative surveying, drilling, shooting and pipe pulling operations was conducted in any area within that portion of the Atlantic Ocean under the jurisdiction of the State of Georgia, during the period covered by the permit, and if seismic operations are conducted under any permit issued by the State Geologist, shot point location maps shall be maintained and kept by the permittee or the person, firm or corporation for whom the permittee performs such operations and such shot point location maps shall be made available for inspection to the State Geologist, the Game and Fish Commission of Georgia and the U. S. Corps of Engineers or their representatives, should it become necessary to determine the exact location of any such shot points.

### III.

No shots shall be discharged within five hundred (500) feet of any dredged channel, nor within three hundred (300) feet of any dock, pier, causeway and other structures, nor a marked oyster bed or marked red snapper bank. No shots shall be discharged except during daylight hours. No shots shall be used in excess of forty (40) pounds. The State Geologist may, upon application and after investigation, permit shooting in other than daylight hours and may also permit the use of larger shots in areas specified by the State Geologist and upon such terms and conditions as will be in keeping with the intent and purpose of these rules. The application for use of shots in excess of forty (40) pounds shall specify the maximum size shots to be used, describe the area by tract number for which such application is made and specify the period of time for which permit is requested, not to exceed sixty (60) consecutive days.

### IV.

Except as hereinafter provided, all shots discharged in the waters of the Atlantic Ocean

shall either be suspended in the water at a depth not greater than one half the distance from the surface to the bottom and in no event nearer to the bottom than five (5) feet or buried at least ten (10) feet below the bottom. No shots shall be discharged closer than one mile to any pass, jetties, mouth of river or other entrance from inland water to the Atlantic Ocean without a permit applied for and issued in accordance with the procedure specified herein for securing permits for shots larger than forty (40) pounds. Irrespective of the minimum depth specified above, all buried shots shall be placed below the bottom at a sufficient depth to prevent cratering. All shot charges suspended in the water by floats shall be of such type and packaged in such manner that same will disintegrate and neutralize in the water within a short time, and any suspended charge which fails to discharge shall be immediately removed from the water if same can, in the opinion of the party chief or manager, be done without endangering the life of any member of the party, but, in no event, shall any such undischarged suspended charge be abandoned without destroying the floats attached thereto. Where inflated floats are used, all charges will be suspended from dual floats, either of which will be capable of retaining the charge at the proper depth.

When shots are buried in the Atlantic Ocean, they shall be buried at least ten (10) feet below the bottom through pipes. Where charges are buried beneath the bottom through pipes and the pipes are allowed to remain in place until the charge is fired, a substantial float or suitable device shall be attached securely to the pipe to prevent it from being lost when the charge is fired. Buried charges, if properly anchored at the required depth where all pipes are removed or properly anchored two (2) feet below the bottom of the pipes where pipes are left standing, may be left overnight and discharged the following day provided all wires are properly shunted so as to prevent accidental discharge. No charges left over night shall be located closer than one thousand three hundred twenty (1320) feet to any shore line generally open to the public. Where shots are discharged within the pipe all the pipe remaining above

the shallowest seismic shot will be removed immediately. All pipes, buoys and other markers not constituted of easily destructible materials used in connection with the seismic work shall be distinctly marked with the name or initials of the permittee using same and, if not constituted of easily destructible materials so they will cause no substantial damage to any boat which may collide therewith shall be properly flagged in the daytime and properly lighted at night so that they are visible for one nautical mile on a clear, dark night. All buoys and other markers shall be anchored by sash weights or similar weights which cannot cause injury to the nets of commercial fishermen, and all such buoys and markers not constituted of easily destructible materials and all weights and markers placed in the offshore waters shall be removed after they have served their purpose, except those buoys placed in the water in accordance with Rules and Regulations of the Department of the Army of the United States Coast Guard.

No seismic operations may be conducted in or on any of the islands, salt water lakes, bays, inlets, marshes and reefs owned by the State of Georgia and that portion of the Atlantic Ocean within the jurisdiction of the State of Georgia and landward from that fifteen (15) foot depth line without the presence of an inspector assigned to the operation by the State Geologist or his designated representative.

## V.

Before any shot is discharged in the Atlantic Ocean, the exploration party shall employ methods approved by the industry to frighten or drive away the fish and/or marine life which may be in the area where the shot is to be discharged. If there is a school or schools of fish in the area to be shot, operations must be suspended in that particular area until said school or schools of fish have been driven away.

## VI.

If any person, firm or corporation should drill a well or wells in the Atlantic Ocean, he shall drill said well or wells in such manner as will so far as practicable prevent the pollution of said

waters, and in such manner as to interfere as little as possible with the fishing and/or shrimping industries. Upon the abandonment of such well, all of the rigging and material shall be removed, and the bottom the Ocean where said well was drilled shall be restored to its former condition as nearly as possible.

## VII.

Each exploration party shall furnish representatives of the State Geologist and the State Game and Fish Commission with transportation facilities from the field office of the exploration party upon reasonable notice at any time they desire to enable them to visit the working area. The exploration party shall also furnish said representatives with meals and sanitary living quarters while they are on the ships engaged in such work when the ships are equipped for such services.

## VIII.

Any person, firm or corporation violating any of the provisions of these Rules after due notice has been given shall be prohibited from further exploring the public lands covered by these Rules, except upon such terms and conditions as the Mineral Leasing Commission may expressly stipulate.

## IX.

The approval of the State Geologist, through his duly authorized officer, of any permit, is granted subject to any future rules and regulations which may be, from time to time, adopted by the State Mineral Leasing Commission. In the event any changes in the rules and regulations are effected, ten (10) days written notice shall be given to all permittees whose permits are still in effect.

## X.

No shot shall be detonated within one mile of a shrimping fleet previously and in good faith operating in the area. By "shrimping fleet" is meant ten or more boats trawling for shrimp within an area or not more than one mile in diameter.

## XI.

As a safety precaution, caps and primers will not be stored in the same container with other explosives. All extra caps and lead wifes will remain short circuited until ready to fire. All caps will be stored in a properly insulated magazine and kept at a safe distance from other explosives.

## XII.

No shots shall be detonated during the months of May, June, July, August and September within one and one-half miles of a major resort beach.

## XIII.

These Rules shall not be construed to enlarge or restrict the rights of any properly licensed fisherman or of an owner of a mineral lease.

STATE MINERAL LEASING COMMISSION

By \_\_\_\_\_

J. H. Auvil, Jr.  
State Geologist





## INSTRUCTIONS

Show all data requested for each well separately, and determine the gas-oil ratio according to the following procedure:

**(1) General:**

(a) Each well shall have produced its current daily allowable, if such well is capable of producing such allowable, during the 24 hour period immediately preceding the test, and the well shall be producing at the time the actual test begins.

(b) The volume of gas used in computing the gas-oil ratio and reported as being produced during the test (except tests on gas lift or jetting wells) shall be the total volume of gas produced from the well in the test period. This total volume of gas shall include all gas withdrawn from the casing as well as that produced through the tubing.

(c) The amount of oil produced during the test shall not be less than the well's then current daily allowable (if the well is capable of producing its allowable) and shall not exceed the daily allowable by more than ten (10) per cent, except that in the case of a well having an allowable already penalized due to its gas oil ratio, the operator may select any rate he desires between the penalized allowable and ten (10) per cent above the unpenalized allowable.

**(2) Flowing Wells That are Produced Continuously:**

The oil flow shall be stabilized during the 24-hour period immediately preceding the test. Adjustments in the rate of flow should be made during the first 12 hours of the stabilization period and no adjustments shall be made during the last 12 hours or during the time in which the well is being tested.

**(3) Flowing Wells That are Produced Intermittently (Stop-cocked):**

In computing the operating gas-oil ratio, the total volume of gas and the total barrels of oil produced during the 24 hour test period must be used regardless of the flowing time in the 24 hour period. On wells which are stop-cocked, both the closed-in casing pressure at the beginning of the test period and the closed-in casing pressure at the conclusion of the test must be shown and properly identified on the report. The closed-in casing pressure at the end of the 24 hour test period shall not exceed the closed-in casing pressure at the beginning of the test period by more than six-tenths (0.6) pounds per square inch per barrel of oil produced during the test.

**(4) Gas Lift or Jetting Wells:**

In submitting gas-oil ratio tests for gas lift or jetting wells, the total input and total output gas volumes shall be reported separately. These volumes shall be properly identified and determined by continuous measurement during the test. The volume of gas used in determining the operating gas-oil ratio hereunder shall be the volume remaining after the total input gas has been deducted from the total output volume.

**(5) Pumping Wells:**

In computing the operating gas-oil ratio, the total volume of gas and the total barrels of oil produced during the test period must be used regardless of the pumping time in the test period.

**(6) Definitions:**

Under Status, use the following symbols: F—Flowing, P—Pumping, GL—Gas Lift, SI—Shut in, D—Dead, TA—Temporarily Abandoned, GI—Gas Injection, WI—Water Injection.

Under Pressure, show the stabilized working pressures on the tubing, and casing, at the rate at which the well is tested. The Gas Production listed shall be the total volume of gas produced during the test in thousands of cubic feet (MCF) measured at a base pressure of \_\_\_\_\_ pounds per square inch, absolute, and a standard base and flowing temperature of 60° Fahrenheit; correction to be made for pressure according to Boyles Law, and for specific gravity according to test made by the Balance Method. All well status and gas-oil ratio tests submitted to the Commission (Board, Department) on this form shall be made by a person qualified by training or experience to make such tests. Methods of gas measurement used shall be those prescribed by the

(Name of Regulatory Body)



## PLUGGING RECORD

Operator		Address		
Name of Lease		Well No.	Field & Reservoir	
Location of Well		Sec-Twp-Rge or Block & Survey		County
Application to drill this well was filed in name of		Has this well ever produced oil or gas	Character of well at completion (initial production): Oil (bbls/day)      Gas (MCF/day)      Dry?	
Date plugged:		Total depth	Amount well producing when plugged: Oil (bbls/day)      Gas (MCF/day)      Water (bbls./day)	
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging		Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.

### CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped etc)	Packers and shoes

Was well filled with mud-laden fluid, according to regulations?      Indicate deepest formation containing fresh water.

### NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well:

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail  
File this form in duplicate with \_\_\_\_\_

Executed this the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
 State of \_\_\_\_\_ }  
 County of \_\_\_\_\_ }      Signature of Affiant \_\_\_\_\_

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_ known to me to be the person whose name is subscribed to the above instrument, who being by me dully sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

SEAL  
 My commission expires \_\_\_\_\_  
 Notary Public in and for \_\_\_\_\_  
 County, \_\_\_\_\_

Name of Regulatory Body \_\_\_\_\_  
 Plugging Record  
 Form No. P-15  
 Authorized by Order No. \_\_\_\_\_  
 Effective \_\_\_\_\_, 19\_\_\_\_

# WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well     Work-Over     Deepen     Plug Back     Same Reservoir     Different Reservoir     Oil     Gas     Dry

## DESCRIPTION OF WELL AND LEASE

Operator		Address		
Lease Name		Well Number	Field & Reservoir	
Location		Sec.—TWP—Range or Block & Survey		
County	Permit number	Date Issued	Previous permit number	Date Issued
Date spudded	Date total depth reached	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.) feet	Elevation of casing hd. flange feet
Total depth	P.B.T.D.	Single, dual or triple completion?	If this is a dual or triple completion, furnish separate report for each completion.	
Producing interval (s) for this completion		Rotary tools used (interval)	Cable tools used (interval)	
Was this well directionally drilled?	Was directional survey made?	Was copy of directional survey filed?	Date filed	
Type of electrical or other logs run (check logs filed with the commission)			Date filed	

## CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled

## TUBING RECORD

## LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

## PERFORATION RECORD

## ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval

## INITIAL PRODUCTION

Date of first production		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)				
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas—oil ratio

Disposition of gas (state whether vented, used for fuel or sold):

Executed this the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

State of \_\_\_\_\_  
County of \_\_\_\_\_

Signature of Affiant \_\_\_\_\_

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_ known to me to be the person whose name is subscribed to the above instrument, who being by me dully sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

**SEAL**  
My commission expires \_\_\_\_\_ Notary Public in and for \_\_\_\_\_  
County, \_\_\_\_\_

Name of Regulatory Body \_\_\_\_\_  
Well Completion or Recompletion Report and Well Log  
Form No. P-7  
Authorized by Order No. \_\_\_\_\_  
Effective \_\_\_\_\_, 19\_\_\_\_



# APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL  DEEPEN  PLUG BACK

NAME OF COMPANY OR OPERATOR \_\_\_\_\_

DATE \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

## DESCRIPTION OF WELL AND LEASE

Name of lease \_\_\_\_\_

Well number \_\_\_\_\_

Elevation (ground) \_\_\_\_\_

Well location (give footage from section lines) \_\_\_\_\_

Section--township--range or block & survey \_\_\_\_\_

Field & reservoir (If wildcat, so state) \_\_\_\_\_

County \_\_\_\_\_

Distance, in miles, and direction from nearest town or post office \_\_\_\_\_

Nearest distance from proposed location to property or lease line: \_\_\_\_\_

feet

Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: \_\_\_\_\_

feet

Proposed depth: \_\_\_\_\_

Rotary or cable tools \_\_\_\_\_

Approx. date work will start \_\_\_\_\_

Number of acres in lease: \_\_\_\_\_

Number of wells on lease, including this well, completed in or drilling to this reservoir: \_\_\_\_\_

If lease, purchased with one or more wells drilled, from whom purchased: \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Status of bond \_\_\_\_\_

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

Executed this the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

State of \_\_\_\_\_

County of \_\_\_\_\_

Signature of Affiant \_\_\_\_\_

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_ known to me to be the person whose name is subscribed to the above instrument, who being by me dully sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

SEAL

My commission expires \_\_\_\_\_

Notary Public in and for \_\_\_\_\_

County, \_\_\_\_\_

Permit Number: \_\_\_\_\_

Approval Date: \_\_\_\_\_

Approved By: \_\_\_\_\_

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

See Instruction on Reverse Side of Form

Name of Regulatory Body \_\_\_\_\_

Application to Drill, Deepen or Plug Back

Form No. P-1

Authorized by Order No. \_\_\_\_\_

Effective \_\_\_\_\_, 19\_\_\_\_

## INSTRUCTIONS

### READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

#### NOTE

Instructions concerning the protection of fresh water sands—inasmuch as each state has a different method of determining requirements for protection of fresh water sands, each state should include an appropriate instruction for that purpose.

Space is left on the back of the form for states desiring to do so to have the plat drawn on the back of the form; however, some states may prefer to have a separate plat attached to the form.

BOND

KNOW ALL MEN BY THESE PRESENTS,

That we: \_\_\_\_\_ of the \_\_\_\_\_ in the \_\_\_\_\_ County of: \_\_\_\_\_ State of: \_\_\_\_\_ as Principal, and \_\_\_\_\_ of \_\_\_\_\_

as surety, authorized to do business in this State, are held and firmly bound unto the State in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas, or stratigraphic purposes in and upon the following described land situated within the State, to wit:

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Conservation Commission of the State, especially with reference to the proper plugging of said well or wells, and filing with the Oil and Gas Conservation Commission of this State all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of \_\_\_\_\_

Witness our hands and seals, this \_\_\_\_\_ day of \_\_\_\_\_

Principal

Witness our hands and seals, this \_\_\_\_\_ day of \_\_\_\_\_

Surety

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

STATE OF GEORGIA OIL AND GAS COMMISSION

Approved \_\_\_\_\_ Date \_\_\_\_\_

Director

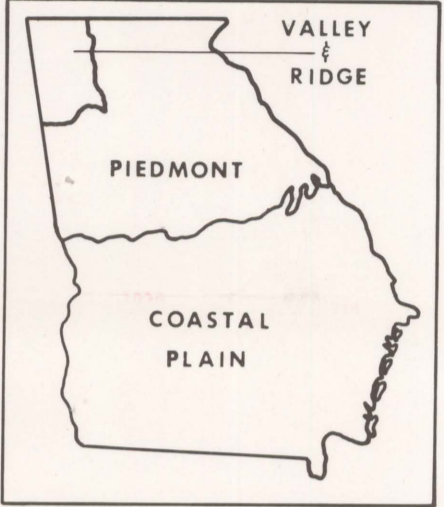
Name of Regulatory Body \_\_\_\_\_ Bond Form No. P-2 Authorized by Order No. \_\_\_\_\_ Effective \_\_\_\_\_, 19\_\_\_\_\_

# OIL TESTS IN GEORGIA

1970



LOCATION AND DEPTH OF WELLS SHOWN IN RED.  
OPEN CIRCLE = APPROXIMATE LOCATION; DOT = ACCURATE LOCATION.



COMPILED BY WILLIAM E. MARSALIS



# State of Georgia



## OIL AND GAS CONSERVATION ACT 1945



PUBLISHED BY  
OIL AND GAS COMMISSION

Commissioner  
Jesse H. Auvil, Jr.  
State Geologist and Director  
Georgia Department of Mines, Mining and Geology



# AN ACT

To prevent waste, foster, encourage and provide conservation of crude oil and natural gas, and products thereof, and protect the vested, co-equal or correlative rights of owners of crude oil or natural gas, as defined in this Act and in furtherance thereof, creating an Oil and Gas Commission; authorizing it to prescribe rules, regulations and orders; authorizing it to provide for the spacing of wells and to designate drilling units; providing penalties for the violation of the provisions of this Act, and of the rules, regulations and orders of the Commission; providing that the provisions of this Act are severable; repealing all laws in conflict herewith, and for other purposes.

BE IT ENACTED BY THE GENERAL ASSEMBLY OF GEORGIA AND IT IS HEREBY ENACTED BY AUTHORITY OF SAME:

## SECTION 1

The General Assembly having knowledge that gas and oil leases are being entered into over a large area of the State, that oil wells are being drilled in different sections seeking the discovery of oil, and recognizing the evils that would become imminent on the discovery of oil in the State were the State without legal means of regulation, therefore, enacts this law for the protection of the public and private interests against such evils as would likely result under such circumstances.

## SECTION 2

There is hereby created the "Oil and Gas Commission," composed of three members hereinafter in this Act called the "Commission," to be appointed by the Governor immediately after this Act takes effect for terms of the following duration: One member for a term of two years, one member for a term of four years, and one member for a term of six years; provided that at the expiration of the term for which each of these appointments is made, each successor member shall be appointed for a term of six years, and in the event of a vacancy, the Governor shall by appointment fill such unexpired term. The Governor shall designate one of said members as Chairman of the Commission. All of the members of said Commission shall be residents and citizens of the State. Each member shall qualify by taking an oath of office, and shall hold office until his successor is appointed and qualified. The Commission shall establish an office at the County seat of some county in Georgia, which place shall be designated by resolution of the Commission, and at which the records of the Commission shall be kept. The Commission shall meet or hold hearings at such times and places as may be found by the Commission to

be necessary to carry out its duties, and each member shall receive as compensation for his service the sum of \$10.00 for each day he attends a meeting or hearing, and in addition thereto, all necessary traveling expenses.

#### **SECTION 3**

A majority of said Commission shall constitute a quorum, and two affirmative votes shall be necessary for adoption or promulgation of any rule, regulation or order.

#### **SECTION 4**

The Attorney General shall be attorney for the Commission provided, that in cases of emergency the Commission may call upon the Solicitor General of the Circuit where the action is to be brought or defended to represent the Commission until such time as the Attorney General may take charge of the litigation. Any member of the Commission, or the Secretary thereof, shall have power to administer oaths to any witness in any hearing, investigation or proceeding contemplated by this Act or by any other law of this State relating to the conservation of oil or gas.

#### **SECTION 5**

The Commission may appoint one Director of Production and Conservation at a salary not to exceed \$4,000.00 per annum and may at its discretion appoint such other assistants, petroleum and natural gas engineers, bookkeepers, auditors, gaugers, and stenographers, and other employees as may be necessary properly to administer and enforce the provisions of this Act.

The Director of Production and Conservation shall be ex-officio Secretary of the Commission and shall keep all minutes and records of the Commission, and in addition thereto, shall collect and remit to the State Treasurer all monies collected. He shall, as such Secretary, give bond in such sum as the Commission may direct with corporate surety to be approved by the Commission, conditioned that he will well and truly account for all funds coming into his hands as such Secretary.

#### **SECTION 6**

The Commission is hereby empowered and authorized to promulgate and set up rules and regulations to control the production of oil and gas from crude oil and natural gas where the common sources of supply are discovered after January 1, 1945. The Commission is further authorized to assess against each barrel of oil produced and saved a charge of not to exceed five (5) mills, and against each thousand cubic feet of gas produced and saved from a gas well a charge not to exceed one-half (1-2) mill on each one thousand cubic feet of gas. All monies so collected shall be paid into the State Treasury. Should charges be assessed against oil or gas any person purchasing oil or gas in this State at the well, or any person taking oil or gas from any well in this State for use or resale, is hereby authorized, empowered and required to deduct from the sum due the owner the amount of the charges due the Commission on such oil and gas and to remit the same to the Commission.

## SECTION 7

There is hereby created in the State Treasury Department a special account to be known as the Oil and Gas Conservation fund, and all monies collected under the provisions of this Act, when paid to the Treasurer of the State shall be deposited to the credit of such fund. The said fund is hereby made available to the Commission for the purpose of administering this Act and shall be withdrawn and used by the Commission for such purposes in the same manner as State funds are now administered under the Budget Act in force in this State.

## SECTION 8

Unless the context otherwise requires the words defined in this section shall have the following meaning when found in this Act:

A. "Commission" shall mean the Oil and Gas Commission as created by this Act.

B. "Person" shall mean any natural person, corporation, association, partnership, receiver, trustee, guardian executor administrator, fiduciary or representative of any kind.

C. "Oil" shall mean crude petroleum oil, and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods, and which are not the result of condensation of gas after it leaves the reservoir.

D. "Gas" shall mean all natural gas, including casing-head gas, and all other hydrocarbons not defined as oil in sub-section C above.

E. "Pool" shall mean an underground reservoir containing a common accumulation of crude petroleum oil or natural gas or both. Each zone of a general structure which is completely separated from any other zone in the structure is covered by the term "pool" as used herein.

F. "Field" shall mean the general area which is overlaid or appears to be overlaid by at least one pool; and "field" shall include the underground reservoir or reservoirs containing crude petroleum oil or natural gas, or both. The words "field" and "pool" mean the same thing when only one underground reservoir is involved; however, "field" unlike "pool" may relate to two or more pools.

G. "Owner" shall mean the person who has the right to drill into and produce from any pool, and to appropriate the production either for himself or for himself and another, or others.

H. "Producer" shall mean the owner of a well or wells capable of producing oil or gas or both.

I. "Waste" in addition to its ordinary meaning, shall mean "Physical waste" as that term is generally understood in the oil and gas industry, it shall include:

(1) The inefficient, excessive or improper use or dissipation of reservoir energy; and the locating, spacing, drilling, equipping, operating or producing of any oil or gas well or wells in a manner which results or tends to result, in reducing the quantity of oil or gas ultimately to be recovered from any pool in this State.

(2) The inefficient storing of oil; and the locating, spacing, drilling, equipping, operating or producing of any oil or gas well or

wells in a manner causing, or tending to cause, unnecessary or excessive surface loss or destruction of oil or gas.

(3) Abuse of the correlative rights and opportunities of each owner of oil or gas in a common reservoir due to non-uniform, disproportionate, and unratable withdrawals causing undue drainage between tracts of land.

(4) producing oil or gas in such manner as to cause unnecessary water channeling or zoning.

(5) The operation of any oil well or wells with an inefficient gas-oil ratio.

(6) The drowning with water of any stratum or part thereof capable of producing oil or gas.

(7) Underground waste however caused and whether or not defined.

(8) The creation of unnecessary fire hazards.

(9) The escape into the open air, from a well producing both oil and gas, of gas in excess of the amount which is necessary in the efficient drilling or operation of the well.

(10) The use of gas for the manufacture of carbon black.

(11) Permitting gas produced from a gas well to escape into the air.

J. "Product" means any commodity made from oil or gas, and shall include refined crude oil, crude tops, topped crude, processed crude petroleum, residue from crude petroleum, cracking stock, uncracked fuel oil, fuel oil, treated crude oil, residuum, gas oil, casing-head gasoline, natural gas gasoline, naphtha, distillate gasoline, kerosene, benzine, wash oil, waste oil, blended gasoline, lubricating oil, blends or mixtures of oil with one or more liquid products or by-products derived from oil or gas, and blends or mixtures of two or more liquid products or by-products derived from oil or gas, whether hereinabove enumerated or not.

K. "Illegal oil" shall mean oil which has been produced within the State of Georgia from any well during any time that that well has produced in excess of the amount allowed by rule, regulation or order of the Commission, as distinguished from oil produced within the State of Georgia from a well not producing in excess of the amount so allowed, which is "legal oil."

L. "Illegal gas" shall mean gas which has been produced within the State of Georgia from any well during any time that that well has produced in excess of the amount allowed by any rule, regulation or order of the Commission, as distinguished from gas produced within the State of Georgia from a well not producing in excess of the amount so allowed, which is "legal gas."

M. "Illegal product" shall mean any product of oil or gas, any part of which was processed or derived, in whole or in part, from illegal oil or illegal gas or from any product thereof as distinguished from "legal product," which is a product processed or derived to no extent from illegal oil or illegal gas.

N. "Tender" shall mean a permit or certificate of clearance for the transportation of oil, gas or products, approved and issued or registered under the authority of the Commission.

## SECTION 9

Waste of oil or gas as defined in this Act is hereby prohibited.

## SECTION 10

The Commission shall have jurisdiction and authority of and over all persons and property necessary to administer and enforce effectively the provisions of this Act and all other acts relating to the conservation of oil and gas.

The Commission shall have the authority and it shall be its duty to make such inquiries as it may think proper to determine whether or not waste over which it has jurisdiction exists or is imminent. In the exercise of such power the Commission shall have the authority to collect data; to make investigations and inspections; to examine properties, leases, papers, books and records; to examine, check, test and gauge oil and gas wells, tanks, refineries and means of transportation; to hold hearings; and to provide for the keeping of records and the making of reports; and to take such action as may be reasonably necessary to enforce this Act.

## SECTION 11

The Commission shall have authority to make, after hearing and notice as hereinafter provided, such reasonable rules, regulations and orders as may be necessary from time to time in the proper administration and enforcement of this Act, including rules, regulations or orders for the following purposes:

A. To require the drilling, casing and plugging of wells to be done in such manner as to prevent the escape of oil or gas out of one stratum to another; to prevent the intrusion of water into an oil or gas stratum from a separate stratum; to prevent the pollution of fresh water supplies by oil, gas or salt water; and to require reasonable bond and conditioned for the performance of the duty to plug each dry or abandoned well.

B. To require the making of reports showing the location of oil and gas wells, and the filing of logs and drilling records.

C. To prevent the drowning by water of any stratum or part thereof capable of producing oil or gas in paying quantities, and to prevent the premature and irregular encroachment of water which reduces, or tends to reduce, the total ultimate recovery of oil or gas from any pool.

D. To require the operation of wells with efficient gas-oil ratios, and to fix such ratios.

E. To prevent "blow outs," "caving" and "seepage" in the sense that conditions indicated by such terms are generally understood in the oil and gas business.

F. To prevent fires.

G. To identify the ownership of all oil or gas wells, producing leases, refineries, tanks, plants, structures, and all storage and transportation equipment and facilities.

H. To regulate the "shooting," perforating and chemical treatment of wells.

I. To regulate secondary recovery methods, including the in-

roduction of gas, oil, water, or other substance into producing formations.

J. To limit and prorate the production of oil or gas or both, from any pool or field for the prevention of waste as herein defined.

K. To require, either generally or in or from particular areas, certificates of clearance or tenders in connection with the transportation of oil or gas.

L. To regulate the spacing of wells and to establish drilling units.

M. To prevent, so far as is practical, reasonably avoidable drainage from each developed unit which is not equalized by counter-drainage.

#### SECTION 12

A. The Commission shall prescribe its rules or order or procedure in hearings or other proceedings before it under this Act, but in all hearings the rules of evidence as established by law shall be applied; provided, however, that the erroneous ruling by the Commission on the admissibility of evidence shall not of itself invalidate any rules, regulations or order.

B. No rule, regulation or order, including change, renewal, or extension thereof, shall, in the absence of an emergency, be made by the Commission under the provisions of this Act except after a public hearing held at such time, place and in such manner, and upon at least seven days notice, as may be prescribed by the Commission. Any person having any interest in the subject matter of the hearing shall be entitled to be heard.

C. In the event an emergency is found to exist by the Commission which in its judgment requires the making, changing, renewal or extension of a rule, regulations or order without first having a hearing, such emergency rule, regulation or order shall have the same validity as if a hearing with respect to the same had been held after due notice. The emergency rule, regulation or order permitted by this section shall remain in force no longer than ten days from its effective date, and, in any event, it shall expire when the rule, regulation or order made after due notice, and hearing with respect to the subject matter of such emergency rule, regulation or order becomes effective.

D. Should the Commission elect to give notice by personal service, such service may be made by any officer authorized to serve process or by agent of the Commission in the same manner as is provided by law for the service of summons in civil actions in the courts of this State. Proof of the service by such agent shall be by the affidavit of the person making personal service.

E. All rules, regulations and orders made by the Commission shall be in writing and shall be entered in full by the Director in a book to be kept for such purpose by the Commission, which book shall be a public record and be open to inspection at all times during reasonable office hours. A copy of such rule, regulation or order, certified by such Director, shall be received in evidence in all courts of this State with the same effect as the original.

F. Any interested person shall have the right to have the

Commission call a hearing for the purpose of taking action in respect of any matter within the jurisdiction of the Commission by making a request thereof in writing. Upon the receipt of any such request the Commission shall promptly call a hearing thereon, and, after such hearing, and with all convenient speed and in any event within thirty days after the conclusion of such hearing, shall take such action with regard to the subject matter as it may deem appropriate.

#### SECTION 13

A. The Commission, or any member thereof, is hereby empowered to issue subpoenas for witnesses, to require their attendance and the giving of testimony before it, and to require the production of books, papers, and records in any proceeding before the Commission as may be material upon questions lawfully before the Commission. Such subpoenas shall be served by the sheriff or any other officer authorized by law to serve process in this State. No person shall be excused from attending and testifying or from producing books, papers and records before the Commission or a court, or from obedience to the subpoena of the Commission or a court, on the ground or for the reason that the testimony or evidence, documentary or otherwise, required of him may tend to incriminate him or subject him to a penalty or forfeiture; provided, that nothing herein contained shall be construed as requiring any person to produce any books, papers or records, or to testify in response to any inquiry, not pertinent to some question lawfully before the Commission or Court for determination. No evidence given by, or required of, any natural person shall be used or admitted against such a person in any criminal prosecution for any transaction, matter or thing concerning which he may be required to testify or produce evidence, documentary or otherwise, before the Commission in obedience to its subpoena; provided, that no person testifying shall be exempted from prosecution and punishment for perjury committed in so testifying.

B. In case of failure or refusal on the part of any person to comply with any subpoena issued by the Commission or any member hereof, or in case of the refusal of any witness to testify or answer as to any matter regarding which he may be lawfully interrogated, any Judge of any Superior Court in this State, on application of the Commission, may in term time or vacation, issue an attachment for such person and compel him to comply with such subpoena and attend before the Commission and produce such documents, and give his testimony upon such matters, as may be lawfully required, and such court shall have the power to punish for contempt as in case of disobedience of like subpoena issued by or from such court, or for refusal to testify therein.

#### SECTION 14

For the prevention of waste and to avoid the augmenting and accumulation of risk arising from the drilling of excessive number of wells, the Commission shall, after due investigation and hearing, have full power and authority to establish such drilling unit or units as may, in their discretion, seem most reasonable and practicable. Said

Commission shall have control of the allocation of production over such units and shall, after investigation and hearing, set up, establish and allocate to each unit its just and equitable share of production, and shall make such orders, rules and regulations as will give to each producer the opportunity to use his just and equitable share of the reservoir energy of any pool. The Commission shall have power to review and approve, or disapprove, agreements made between owners or operators, or both, in the interest of conservation of oil or gas or both or for the prevention of waste, and to do such other acts as will assure just and fair dealing between lessors, lessees, producers and other interested parties.

#### SECTION 14 A

(a) When two or more separately owned tracts of land are embraced within an established drilling unit, the owners thereof may validly agree to integrate their interests and to develop their lands as a drilling unit. Where, however, such owners have not agreed to integrate their interests, the Commission shall, for the prevention of waste or to avoid the drilling of unnecessary wells, require such owners to do so and to develop their lands as a drilling unit.

(b) When two or more separately owned tracts of land are embraced within a pool or a portion of a pool suitable for gas cycling, the owners thereof may validly agree to integrate their interest therein and develop their lands as a unit. Where, however, such owners have not agreed to so integrate their interest the Commission may, in order to prevent waste and to avoid the drilling of unnecessary wells, after notice and upon hearing, determine the feasibility of, and require, the cycling of gas in any pool or portion of a pool productive of gas from which condensate may be separated or natural gasoline extracted, and promulgate rules to unitize separate ownership and to regulate production of gas and re-introduction of gas into productive formation, after separation of condensate or extraction of natural gasoline for such gas.

(c) All orders requiring such integration shall be made after notice and hearing and shall be upon terms and conditions that are just and reasonable, and will afford to the owner of each tract the opportunity to recover or receive his just and equitable share of the oil and gas in the pool without unnecessary expense, and will prevent or minimize reasonably avoidable drainage from each integrated unit which is not equalized by counter drainage. The portion of the production allocated to the owner of each tract included in an integrated unit formed by an integration order shall, when produced, be considered as if it had been produced from such tract by a well drilled thereon. In the event such integration is required, the operator designated by the Commission to develop and operate the integrated unit shall have the right to charge to each other interested owner the actual expenditures required for such purpose not in excess of what are reasonable, including charges for supervision, and the operator shall have the right to receive the first production from any well drilled by him thereon, which otherwise would be delivered or paid to the other parties jointly interested in the drilling of the well, so that



the amount due by each of them for his share of the expense of drilling, equipping and operation of the well may be paid to the operator of the well out of production, with the value of the production calculated at the market price in the field at the time such production is received by the operator or placed to his credit. In the event of any dispute relative to such costs, the Commission shall determine the proper costs.

(d) Should the owners of separate tracts embraced within a drilling unit fail to agree upon the integration of the tracts and the drilling of a well on the unit, and should it be established that the Commission is without authority to require integration as provided for in sub-division (a) of this section, then subject to all other applicable provisions of this Act, the owner of each tract embraced within the drilling unit may drill on his tract but the allowable production from said tract shall be such proportion of the allowable for the full drilling unit as the area of such separately owned tract bears to the full drilling unit.

(e) Agreements made in the interest of conservation of oil or gas or both, or for the prevention of waste, between and among owners or operators, or both, owning separate holdings in the same oil or gas pool, or in any area that appears from geological or other data to be underlined by a common accumulation of oil or gas, or both, or between and among such owners or operators, or both, and royalty owners therein, or the pool or area, or any part thereof, as a unit for establishing and carrying out a plan for the cooperative development and operation thereof, when such agreements are approved by the Commission, are hereby authorized and shall not be held or construed to violate any of the statutes of this State relating to trust, monopolies, or contracts and combinations in restraint of trade.

#### SECTION 15

Any interested person adversely affected by any statute of this State with respect to conservation of oil or gas or both, or by any provisions of this Act, or by any rule, regulation or order made by the Commission thereunder, or by any act done or threatened thereunder, and who has exhausted his administrative remedy, may obtain court review and seek relief by a suit for injunction against the Commission as defendant or the members thereof by suit in the Superior Court of the county in which the property involved is located. In such trial, the burden of proof shall be upon the plaintiff, and all pertinent evidence with respect to the validity and reasonableness of the order of the Commission complained of shall be admissible. The right of review accorded by this section shall be inclusive of all other remedies, but the right of appeal shall lie as hereinafter set forth.

#### SECTION 16

No temporary restraining order or injunction of any kind shall be granted against the Commission, its members, employees, or representatives restraining the enforcement of any statute of this State or any rule, regulation or order made thereunder except after three days notice served upon some person in the principal office of said

Commission of the time, place and court before which applications for such order shall be made.

#### **SECTION 17**

Whenever it shall appear that any person is violating, or threatening to violate, any statute of this State with respect to the conservation of oil or gas, or both, or any provision of this Act, or any rule, regulation or order made thereunder by any act done in the operation of any well producing oil or gas, or by omitting any act required to be done thereunder, the Commission, through the Attorney General, may bring suit against such person in the Superior Court in the county in which the well in question is located, to restrain such person or persons from continuing such violations or from carrying out the threat of violation. In such suit the Commission may obtain injunctions, including temporary restraining orders and temporary injunctions, as the facts may warrant, including when appropriate, an injunction restraining any person from moving or disposing of illegal oil, illegal gas or illegal product, and any or all such commodities may be ordered to be impounded or placed under the control of an agent appointed by the court if, in the judgment of the court, such action is advisable.

#### **SECTION 18**

Any person who, for the purpose of evading this Act, or of evading any rule, regulation, or order made thereunder, shall intentionally make or cause to be made any false entry or statement of fact in any report required to be made by this Act or by any rule, regulation, or order made hereunder; or who, for such purpose, shall make or cause to be made any false entry in any account, record, or memorandum kept by any person in connection with the provisions of this Act or of any rule, regulation or order made thereunder, or who, for such purpose, shall omit to make, or cause to be omitted, full, true and correct entries in such accounts, records, or memoranda, of all facts and transactions pertaining to the interest or activities in the petroleum industry of such persons as may be required by the Commission under authority given in this Act or by any rule, regulation, or order made hereunder; or who, for such purpose, shall remove out of the jurisdiction of the State, or who shall mutilate, alter, or by any other means falsify, any book, record, or other paper, pertaining to the transactions regulated by this Act, or by any rule, regulation, or order made hereunder, shall be deemed guilty of a misdemeanor and upon conviction shall be punished as for a misdemeanor.

#### **SECTION 19**

Any person who knowingly and wilfully violates any provision of this Act, or any rule, regulation, or order of the Commission made thereunder, shall, in the event a penalty for such violation is not otherwise provided for herein, be subject to a penalty of not to exceed One Thousand Dollars (\$1,000.00) a day for each and every day of such violation, and for each and every act of violation, such penalty to be recovered in a suit in the Superior Court of the county where the defendant resides, or in the county of the residence of any defendant if

there be more than one defendant, or in the Superior Court of the county where the violation took place. The place of suit shall be selected by the Commission, and such suit, by direction of the Commission, shall be instituted and conducted in the name of the Commission by the Attorney General. The payment of any penalty as provided for herein shall not have the effect of changing illegal oil into legal oil, illegal gas into legal gas, or illegal product into legal product, nor shall such payment have the effect of authorizing the sale or purchase or acquisition, or the transportation, refining, processing, or handling in any other way, of such illegal oil, illegal gas or illegal product, but to the contrary, penalty shall be imposed for each prohibited transaction relating to such illegal oil, illegal gas or illegal product.

Any person knowingly and wilfully aiding or abetting any other person in the violation of any statute of this State relating to the conservation of oil or gas, or the violation of any provision of this Act, or any rule, regulation, or order made thereunder, shall be subject to the same penalties as are prescribed herein for the violation by such other person.

#### SECTION 20

(A) The sale, purchase or acquisition, or the transportation, refining, processing or handling in any other way of illegal oil, illegal gas or illegal product is hereby prohibited.

(B) Unless and until the Commission provides for certificates of clearance or tenders or some other method, so that any person may have an opportunity to determine whether any contemplated transaction of sale, purchase or acquisition, or of handling in any other way, involves illegal oil, illegal gas or illegal product, no penalty shall be imposed for the sale, purchase or acquisition, or the transportation, refining, processing or handling in any other way of illegal oil, illegal gas or illegal product, except under circumstances hereinafter stated. Penalties shall be imposed for the commission of each transaction prohibited in this section when the person committing the same knows that illegal oil illegal gas or illegal product is involved in such transaction, or when such person could have known or determined such fact by the exercise of reasonable diligence or from facts within his knowledge. However, regardless of lack of actual notice or knowledge, penalties as provided in this Act shall apply to any sale purchase or acquisition, and to the transportation, refining, processing or handling in any other way, of illegal oil, illegal gas or illegal product, where administrative provision is made for identifying the character of the commodity as to its legality. It shall likewise be a violation for which penalties shall be imposed for any person to sell, purchase or acquire, or to transport, refine, process or handle in any other way any oil, gas or any product without complying with any rule, regulation or order of the Commission relating thereto.

#### SECTION 21

Apart from, and in addition to, any other remedy or procedure which may be available to the Commission, or any penalty which may be sought against or imposed upon any person with respect to viola-

tions relating to illegal oil, illegal gas, or illegal product, all illegal oil, illegal gas and illegal product shall except under such circumstances as are stated herein, be contraband and shall be seized and sold, and the proceeds applied as herein provided. Such sale shall not take place unless the court shall find, in the proceeding provided for in this paragraph, that the commodity involved, is contraband. Whenever the Commission believes that illegal oil, illegal gas or illegal product is subject to seizure and sale, as provided herein, it shall through the Attorney General, bring a civil action in rem for that purpose in the Superior Court of the county where the commodity is found, or the action may be maintained in connection with any suit or cross action for injunction or for penalty relating to any prohibited transaction involving such illegal oil, illegal gas or illegal product. Any interested person who may show himself to be adversely effected by any such seizure and sale shall have the right to intervene in such suit to protect his rights.

#### SECTION 22

The action referred to in Section 21 shall be strictly in rem and shall proceed in the name of the State against the illegal oil, illegal gas or illegal product seized or sought to be condemned as contraband. Upon the filing of the complaint the judge of the court wherein filed shall issue a show cause order requiring any and all interested parties to show cause within thirty days why such illegal oil, illegal gas, or illegal product, as defined in this Act, and mentioned in the complaint should not be decreed to be contraband and ordered sold. The show cause order shall be served by the sheriff upon any person known to be interested therein, and by publishing a certified copy of the order in the official newspaper of the county wherein legal notices are published for once a week for two weeks. After thirty days from the date of the order, where defense or claim is filed or where no defense or claim is filed, the judge of said court shall proceed to hear evidence and to determine the truth of the complaint. Should the oil, gas or product be found to be illegal within the sense of this Act, the same shall be decreed to be contraband and ordered sold under such terms as the judge, in his order may direct. The judge may order same sold in bulk, in lots or parcels or under such other regulations as may be deemed to be proper. No illegal oil, gas, or product shall be sold for less than the average market value at the time of the sale of similar products of like grade and character. When complaint is presented the judge may order such alleged illegal oil, gas, or product held by the sheriff, a conservator, or agent or employee of the Commission. When held or sold by a sheriff or conservator the court shall provide by order for the payment of a reasonable remuneration for services rendered by such officer. Nothing in this section shall deny or abridge any cause of action of a royalty owner, or lien holder, or other claimant, may have because of the forfeiture of the illegal oil, illegal gas, or illegal product, against the person whose act resulted in such forfeiture. Funds arising from the sale of illegal oil, gas, or products, after payment of all cost and expenses approved by order of the court shall be paid to the Treasurer of the State for credit to the Conservation Fund provided for by this Act.

### SECTION 23

Before any well, in search of oil or gas shall be drilled, the person desiring to drill the same shall notify the Commission under such form as it may prescribe and shall pay a fee of Twenty-five Dollars (\$25.00) for each well. The drilling of any well is hereby prohibited until such notice is given and such fee has been paid and permit granted.

Each abandoned well and each dry hole promptly shall be plugged in the manner and within the time required by regulations to be prescribed by the Commission, and the owner of such well shall give notice, upon such form as the Commission may prescribe, of the drilling of each dry hole and of the owner's intention to abandon. No well shall be abandoned until such notice has been given, provided, however, that the drilling of shot-holes and core-holes for geophysical and geological explorations shall not be considered to be the drilling of a well within the meaning of this Act.

### SECTION 24

(A) After permit to drill a well has been granted, the owner, operator, contractor, driller or other person responsible for the conduct of the drilling operations shall furnish the Commission a surety bond in the amount of Two Thousand (\$2,000.00) Dollars to insure the faithful performance of the requirements of this Act with respect to the filing of reports required thereunder within a period of three (3) years from its date. If during said three (3) year period the operations of the person furnishing said bond in the drilling of wells shall be so extensive that in the discretion of the Commission the amount of said bond is not sufficient to insure prompt filing of the reports, it may require an increase of said bond in an amount not exceeding Five Thousand (\$5,000.00) Dollars to cover all of said operations and said responsible person shall also file a report describing progressively the Strata, water, oil, and other minerals encountered in drilling the well with such other and additional information as to gas volumes, pressures, rate of fill-up, water depths, caving strata, casing records and such other information as is usually recorded in the normal procedure of drilling. It shall be the duty of the Director of Petroleum and Conservation, as Secretary of the Commission, to furnish all such information to the Department of Mines and Geology of the State, and to cooperate with such division of the State, in assembling and supplying information, and in the conservation of any other mineral resources discovered through drilling wells for oil and gas.

(B) Within six months after the completion of a well, the complete record, duly signed and sworn to before a notary public, including logs, electrical logs and drilling records, and the logment in the office of the State Geologist of a typical set of drill cuttings or cores, if cores are taken, shall be filed in triplicate with the State Geologist on form to be prescribed by the Commission. This record shall include the name, number and location of the well; name and address of the well owner and drilling contractor; drilling dates; elevation of derrick above mean sea level; depth and thickness of oil or gas sands and important water sands; a full casing record; mudding and

cementing record; shooting and treating record; results of drill stem and other tests; records of deviation surveys; a complete electrical log, if such was taken. It shall include also a complete formation log which shall specify the formations yielding water, the rate of water inflow, and the elevations to which water rose in the hole; it shall also give in detail the formations passed through, their depth and thickness; it shall also give data regarding upper oil and gas shows, and any additional pertinent information, including a drilling time log.

(C) Within six months after the completion of abandonment of a well a complete set of cuttings or cores, if cores have been taken, correctly labeled and identified as to depth, shall be filed with the State Geologist.

(D) If the reports, cuttings and cores herein required, shall be furnished to the commission and the State Geologist before the expiration of the six (6) months' period, they shall in all respects be confidential and shall not be subject to examination in whole or in part by any member of the public, nor shall any information contained therein be made public by the Commission or any employee or member thereof, or by the State Geologist, or any other person until within six (6) months after the report shall have been filed, or the well abandoned, if the owner or operator or other person furnishing said report or drill cutting or cores shall so request in writing.

#### SECTION 25

In order to protect further the natural gas fields and oil fields in this State, it is hereby declared to be unlawful for any person to permit negligently any gas or oil well to go wild or to get out of control. The owner of any such well shall, after twenty-four (24) hours' written notice by the Commission given to him or to the person in possession of such well, make reasonable efforts to control such well.

In the event of the failure of the owner of such well within twenty-four (24) hours after service of the notice above provided for, to control the same, if such can be done within the period, or to begin in good faith upon service of such notice, operations to control such well, or upon failure to prosecute diligently such operations, then the Commission shall have the right to take charge of the work of controlling such well, and it shall have the right to proceed, through its own agents or by contract with a responsible contractor, to control the well or otherwise to prevent the escape or loss of gas or oil from such well, all at the reasonable expense of the owner of the well. In order to secure to the Commission the payment of the reasonable cost and expense of controlling or plugging such well, the Commission shall retain the possession of the same and shall be entitled to receive and retain the rents, revenues and incomes therefrom until the costs and expenses incurred by the Commission shall be repaid. When all such costs and expenses have been repaid, the Commission shall restore possession of such well to the owner; provided, that in the event the income received by the Commission shall not be sufficient to reimburse the Commission as provided for in this Section, the Commission shall have a lien or privilege upon all of the property of

the owner of such well, except such as to exempt by law, and the Commission shall proceed to enforce such lien or privilege by suit brought in any court of competent jurisdiction, the same as any other like civil action, and the judgment so obtained shall be executed in the same manner now provided by law for execution of judgment. Any excess over the amount due the Commission which the property seized and sold may bring, after payment of court costs shall be paid over to the owner of such well.

#### SECTION 26

If any part or parts of this Act be held to be unconstitutional, such unconstitutionality shall not affect the validity of the remaining portion of this Act. The General Assembly hereby declares that it would have passed the remaining parts of this Act if it had known that such part or parts thereof would be declared unconstitutional.

#### SECTION 27

That all laws and parts of laws in conflict herewith be and the same are hereby repealed.

ROY V. HARRIS,  
Speaker of The House of Representatives.

P. T. McCUTCHEN, JR.  
Clerk of The House of Representatives

FRANK C. GROSS  
President of The Senate.

MRS. HENRY W. NEVIN  
Secretary of The Senate

Approved by  
ELLIS ARNALL, Governor.

This 9th day of March, 1945.

I, John B. Wilson, Secretary of State of the State of Georgia, do hereby certify that the foregoing is a true and correct copy of Act No. 366 of the 1945 General Assembly, as the same appears of file in this office.

This 21st day of March, 1945.

JOHN B. WILSON  
Secretary of State

# General Rules and Regulations

Governing The

## Conservation of Oil and Gas In Georgia

Commissioner

Jesse H. Auvil, Jr.

State Geologist and Director

Georgia Department of Mines, Mining and Geology

### Introduction

Pursuant to the power and authority delegated to the Oil and Gas Commission of the State of Georgia by an Act approved March 9, 1945 (Act. # 366, H. B. 284) after notice and public hearings, duly advertised, and held at Waycross, Georgia, June 26, 1945, and August 27, 1945, the Oil and Gas Commission of the State of Georgia, hereinafter designated as the Commission, do hereby make, adopt and promulgate the following general rules and regulations deemed by the Commission to be reasonably necessary to prevent waste of oil or gas as defined by law, and otherwise to carry out the purpose of the Act. These rules and regulations shall become effective the ninth day of November, 1945.

#### RULE A-1

The following rules and regulations have been adopted by the Oil and Gas Commission and are General Rules of state-wide application, applying to the conservation and prevention of waste of oil and gas, as defined in Section 8 of the Act approved March 9, 1945, in the State of Georgia, and protection of the vested, co-equal or correlative rights of owners of oil and gas. Special rules, regulations and orders will be issued when required and shall prevail as against general rules, regulations and orders if in conflict therewith.

#### RULE A-2

Regulations and rules other than the ones herein adopted, all special rules, orders, changes to the rules this day adopted, and renewals of orders and regulations shall be made under the terms and conditions provided for in Section 12 of the Act. Hearings shall be held at the office of the Commission at Waycross, Georgia, unless otherwise specified in the notice of the Commission. Notice to the public and interested parties shall be given seven days before the hearing is held. The Commission may provide in its notice a longer period of



time if in its opinion a longer period is desirable. After notice of hearing is once given, the hearing may be continued to another day by order of the Commission entered on the day advertised for hearing. The notice shall specify the date of hearing, the place of hearing, the subject matter of the hearing, and shall be served on interested parties by mail and publicity in newspapers. Any interested party may bring a petition to the Commission requesting a hearing for consideration of the adoption of rules, regulations, special rules, orders or changes. In case of an emergency any rule, regulations or order necessary to meet the emergency may be passed, changed, modified, renewed or extended without first having had a hearing. When so entered, the same shall be of force for ten days only. The Commission shall immediately, on the adoption of such emergency order, call a public hearing for consideration of same. Notice of said hearing shall be given as herein provided. At such hearing the order may be extended, made permanent, changed or modified as may appear to be just and equitable to the Commission.

#### **RULE A-3—DEFINITIONS**

Unless the context otherwise requires, the words defined shall have the following meaning when found in these rules, to-wit:

"BARREL" OR BARRELS OF OIL" shall mean 42 United States gallons of oil at a test of 60 degrees Fahrenheit, with deductions for the full per cent of basic sediment, water and other impurities present, ascertained by centrifugal or other recognized and customary test.

BLOW-OUT shall mean a sudden or violent escape of oil or gas, as from a drilling well, when high formation pressure is encountered.

BLOW-OUT PREVENTER shall mean a heavy casing head control filled with special gates or discs which may be closed around the drill pipe, or which completely closes the top of the casing if the pipe is withdrawn.

BOTTOM HOLE PRESSURE shall mean the pressure in pounds per square inch at or near the bottom of an oil or gas well determined at the face of the producing horizon by means of a pressure recording instrument, adopted and recognized by the oil and gas industry.

CASING PRESSURE shall mean the pressure built up between the casing and tubing when the casing and tubing are packed off at the top of the well.

CASINGHEAD GAS shall mean any gas or vapor, or both gas and vapor, indigenous to an oil stratum and produced from such stratum with oil.

CHRISTMAS TREE shall mean an assembly of valves and fittings at the head of the casing of a well to control the flow. Also spoken of as "well head connections."

CIRCULATION shall mean the passing of an approved fluid down through the drill stem and up to the surface in the process of rotary drilling or in setting casing.

COMMISSION shall mean the Oil and Gas Commission, as defined in Section 2 of Act. # 366.

**COMMON SOURCE OF SUPPLY** shall mean geographic area or horizon definitely separated from any other such area of horizon and which contains, or from competent evidence appears to contain, a common accumulation of oil or gas or both. Any oil or gas field or part thereof which comprises and includes any area which is underlaid, or which from geographical or other scientific data or experiments or from drilling operations or other evidence appears to be underlaid by a common pool or accumulation of oil and gas or both oil and gas.

**CONDENSATE** shall mean the liquid produced by the condensation of a vapor or gas either after it leaves the reservoir or while still in the reservoir. Condensate is often called distillate, drips, white oil, etc.

**CONSERVATION** shall mean the conserving, preserving, guarding or protecting the oil and gas resources of the state by obtaining the maximum efficiency with minimum waste in the production, transportation, processing, refining, treating and marketing of the unrenovable oil and gas resources of the state.

**CUBIC FOOT OF GAS** shall mean that amount of gaseous hydrocarbons contained in a cubic foot of space at a base temperature of 60 degrees Fahrenheit and an absolute pressure of 14.4 lbs. per square inch plus 4 ozs. per square inch, which temperature and pressure are referred to as the base temperature and pressure, respectively.

**DAY** shall mean a period of twenty-four (24) consecutive hours, from 7:00 a. m. one day to 7:00 a. m. the following day.

**DRY GAS** shall mean natural gas obtained from sands that produce gas only; or natural gas obtained which does not contain the heavier fractions which may easily condense under normal atmospheric conditions; not casinghead gas.

**FIELD** shall mean the general area which is underlaid or appears to be underlaid by at least one pool; and "Field" shall include the underground reservoir or reservoirs containing crude petroleum oil or natural gas, or both. The words "field" and "pool" mean the same thing when only one underground reservoir is involved; however, "field," unlike "pool," may relate to two or more pools.

**GAS** shall mean all natural gas, including casing-head gas, and all other hydro-carbons not defined as oil.

**"ILLEGAL OIL"** shall mean oil which has been produced within the State of Georgia from any well during any time that that well has produced in excess of the amount allowed by rule, regulation or order of the Commission, as distinguished from oil produced within the State of Georgia from a well not producing in excess of the amount so allowed, which is "legal oil."

**"ILLEGAL GAS"** shall mean gas which has been produced within the State of Georgia from any well during any time that that well has produced in excess of the amount allowed by any rule, regulation or order of the Commission, as distinguished from gas produced within the State of Georgia, from a well not producing in excess of the amount so allowed, which is "legal gas."

**"ILLEGAL PRODUCT"** shall mean any product of oil or gas, any part of which was processed or derived, in whole or in part, from

illegal oil or illegal gas or from any product thereof, as distinguished from "legal product," which is a product processed or derived to no extent from illegal oil or illegal gas.

LEASE TANK shall mean the tank or other receptacle into which oil is produced either directly from a well or from a well through gas separator, gun barrel or similar equipment.

MONTH AND CALENDAR MONTH shall mean the period or interval of time from 7 a. m. on the first day of any month of the calendar to 7 a. m. of the first day of the next succeeding month of the calendar.

MUD-LADEN FLUID shall mean any approved mixture of water and clay or other materials as the term is commonly used in the industry which will effectively seal the formation to which it is applied.

OIL shall mean crude petroleum oil, and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods, and which are not the result of condensation of gas after it leaves the reservoir.

OPERATOR shall mean any person who, duly authorized, is in charge of the development of a lease or the operation of a producing well.

OWNER shall mean the person who has the right to drill into and to produce from any pool, and to appropriate the production either for himself or for himself and another, or others.

PERSON shall mean any natural person, corporation, association, partnership, receiver, trustee, guardian, executor, administrator, fiduciary or representative of any kind.

POOL shall mean an underground reservoir containing a common accumulation of crude petroleum oil or natural gas or both. Each zone of a general structure which is completely separated from any other zone in the structure is covered by the term "Pool" as used herein.

PRESSURE BASE shall mean an absolute pressure agreed upon or set as a base for converting the volume of gas metered to a correct volume.

PRESSURE MAINTENANCE shall mean (1) the reintroduction (in the early stages of field development) of gas or liquid produced from an oil or gas well to maintain the pressure of the reservoir; (2) the introduction of gas or fluid for the same purpose but obtained from an outside source.

PRODUCER shall mean the owner of a well or wells capable of producing oil or gas or both.

PRODUCT means any commodity made from oil or gas and shall include refined crude oil, crude tops, topped crude, processed crude petroleum, residue from crude petroleum, cracking stock, uncracked fuel oil, fuel oil, treated crude oil, gas oil, casinghead gasoline, natural gas gasoline, naphtha, distillate, gasoline, kerosene, benzine, wash oil, waste oil, blended gasoline lubricating oil, blends or mixtures of oil with one or more liquid products or by-products derived from oil or

gas and blends or mixtures of two or more liquid products or by-products derived from oil or gas, whether hereinafter enumerated or not.

**PURCHASER** shall mean any person who directly or indirectly purchases, transports, takes or otherwise removes production to his account from a well, lease or common sources of supply.

**SEPARATOR** shall mean an apparatus for separating oil, gas, water, etc., with relative efficiency, as it is produced.

**SHUT IN PRESSURE** shall mean the pressure noted at the well head when the well is completely shut in. Not to be confused with Bottom Hole Pressure.

**TENDER** shall mean a permit or certificate of clearance for the transportation of oil, gas or products, approved and issued or registered under the authority of the Commission.

**TRANSPORTER** shall mean and include any person engaged in the transportation of oil and gas.

**WASTE**, in addition to its ordinary meaning, shall mean "physical waste" as that term is generally understood in the oil and gas industry. It shall include:

(1) The inefficient, excessive or improper use or dissipation of reservoir energy; and the locating, spacing, drilling, equipping, operating or producing of any oil or gas well or wells in a manner which results or tends to result in reducing the quantity of oil or gas ultimately to be recovered from any pool in this state.

(2) The inefficient storing of oil; and the locating, spacing, drilling, equipping, operating or producing of any oil or gas well or wells in a manner causing, or tending to cause, unnecessary or excessive surface loss or destruction of oil or gas.

(3) Abuse of the correlative rights and opportunities of each owner of oil or gas in a common reservoir due to non-uniform, disproportionate, and unratable withdrawals causing undue drainage between tracts of land.

(4) Producing oil or gas in such manner as to cause unnecessary water channeling or coning.

(5) The operation of any oil well or wells with an inefficient gas-oil ratio.

(6) The drowning with water of any stratum or part thereof capable of producing oil or gas.

(7) Underground waste however caused, and whether or not defined.

(8) The creation of unnecessary fire hazards.

(9) The escape into the open air, from a well producing both oil and gas, or gas in excess of the amount which is necessary in the efficient drilling or operation of the well.

(10) The use of gas for the manufacture of carbon black.

(11) Permitting gas produced from a gas well to escape into the air.

**WELL LOG** shall mean the written record progressively describing the strata, water, oil or gas encountered in drilling a well with such additional information as to gas volumes, pressures, rate of fill-

up, water depths, caving strata, casing record, etc., as is usually recorded in the normal procedure of drilling.

## Drilling--Production

### **RULE B-1—APPLICATION TO DRILL**

Before any person, firm or corporation shall spud in and begin the actual drilling or deepening of any well in search of oil and/or gas in the State of Georgia, such person, firm or corporation shall file with the Oil and Gas Commission its application in such form as the Commission shall require for a permit to drill or deepen said well. The application shall be accompanied by the sum of \$25.00, which sum is fixed as the fee for granting of a permit to drill. There is no fee for the permit to deepen a well previously drilled under Commission permit. The permit so issued by the Commission shall be in such form as it may by its rules and regulations prescribe. A permit to drill will be given by the Commission to the applicant, on which will be noted the Commission's approval of the location if it complies with all requirements of applicable state-wide or field rules. Locations which do not comply with applicable spacing rules shall be approved or rejected by the Commission after notice and hearing have been given to all interested parties. Drilling or deepening shall not begin until the approval is obtained. An operator shall be required to obtain a permit to deepen when the well is to be recompleted in another reservoir, but not as long as the well does not exceed its original permit depth or as long as the well is recompleted in the same reservoir. No permit is required for workover as long as the well remains completed in the same reservoir.

### **RULE B-2—BOND TO BE FURNISHED BEFORE "SPUDDING IN"**

After permit to drill a well has been granted, the owner, operator, contractor, driller or other person responsible for the conduct of the drilling operations shall furnish the Commission a surety bond, in the amount of Two Thousand (\$2,000.00) Dollars to insure the faithful performance of the requirements of Act # 366 with respect to the filing of reports required thereunder within a period of three (3) years from its date; and further conditioned that the well when abandoned shall be properly plugged as required by said Act and in the manner and according to the method and procedure as outlined by the Commission in Rule B-8 and Rule B-9, this day adopted. If during said three (3) year period the operations of the person furnishing said bond in the drilling of wells shall be so extensive that in the discretion of the Commission the amount of said bond is not sufficient to insure prompt filing of the reports, it may require an increase of said bond in an amount not exceeding Five Thousand (\$5,000.00) Dollars to cover all of said operations and said responsible person shall also file a report describing progressively the strata, water, oil, and other minerals encountered in drilling the well, with such other and additional information as to gas volumes, pressures, rate of fill-up, water depths, caving strata, casing records and such other information as is usually recorded in the normal procedure of

drilling. It shall be the duty of the Director of Petroleum and Conservation, as Secretary of the Commission, to furnish all such information to the Department of Mines, Mining and Geology of the State, and to co-operate with such division of the State, in assembling and supplying information, and in the conservation of any other mineral resources discovered through drilling wells for oil and gas.

#### **RULE B-3—SLUSH PITS**

Before commencing to drill, proper and adequate slush pits shall be constructed for the reception of mud.

#### **RULE B-4—SPACING OF WELLS**

A. The spacing of wells in proven oil and gas fields, or in areas that the Commission may designate, shall be governed by special rules for that particular field or area, adopted after notice and hearing.

##### **B. All oil wells**

(1) must be located on a drilling unit consisting of at least forty (40) surface contiguous acres upon which no other drilling or producible well is located; and the location of the well shall not be greater than 330 feet from the center of the drilling unit, unless a special exception is granted after notice and hearing.

(2) the difference between any two points farthest apart on the drilling unit upon which the well is located must not exceed a distance of 2100 feet.

(3) no portion of the drilling unit attributed to the well shall fall within 330 feet of any other drilling or producible well located on the same lease or property; and

(4) the drilling unit upon which the well is located must not be attributed in whole or in part to any other drilling or producible well in the same reservoir; and

(5) all separate property interests in the drilling unit upon which the well is located must first be consolidated; and

(6) the well must be located at least 660 feet from every other drilling or producible well; and

(7) the well must be located at least 330 feet from every lease line, property line and subdivision line separating unconsolidated property interest; and

(8) if any well drilled in conformity with the provisions of this paragraph is completed as a gas or condensate well it shall not be produced except to provide fuel for drilling or fuel for other lease operations or for testing the well for a period of not exceeding fifteen (15) days until authorization has been granted by the Oil and Gas Commission after hearing.

##### **C. Every gas well or gas-condensate well**

(1) must be located on a drilling unit consisting of at least 640 contiguous surface acres upon which no other drilling or producible well is located; and

(2) the drilling unit upon which the well is located must not be attributed in whole or in part to any other drilling or producible well; and

(3) the difference between any two points farthest apart on the

drilling unit upon which the well is located must not exceed a distance of 8500 feet; and

(4) all separate property interests in the drilling unit upon which the well is located must first be consolidated; and

(5) the well must be located at least 5280 feet from every other drilling or producible well; and

(6) the well must be located at least 1320 feet from every lease line, property line and subdivision line separating unconsolidated property interests.

D. The Oil and Gas Commission, in order to prevent waste or to prevent the confiscation of property, may grant exceptions to permit drilling within shorter distances of the above prescribed, whenever the Commission shall determine, after hearing, that such exceptions are necessary to prevent waste or to prevent the confiscation of property. When exception to such rule is desired, application therefor shall be made to the Commission in duplicate on a form prescribed by the Commission, which application shall be accompanied by a plat or sketch drawn to the scale of one inch equalling 400 feet, accurately showing to scale the property on which the permit is sought to drilling a well under an exception to these rules, and accurately showing to scale all other completions, drilling and permitted wells on said property and accurately showing to scale all adjoining surrounding properties and well. Such application shall be verified by some person acquainted with the facts, stating that all facts therein stated are within the knowledge of the affiant true and that the accompanying plat is accurately drawn to scale and correctly reflects pertinent and required data. Such exception shall be granted only after at least seven (7) days notice to all adjoining lessors affected thereby has been given, after public hearing at which all interested parties may appear and be heard, and after the Commission has determined that an exception to such rule is necessary either to prevent waste or to protect property belonging to the applicant from confiscation.

E. No well drilled in violation of these rules without special permit obtained issued or granted in the manner prescribed in these rules and no well drilled under such special permit which does not conform in all respects to the terms of such special permit shall be permitted to produce oil, gas or condensate and any such well so drilled in violation of these rules shall be plugged.

#### **RULE B.5—IDENTIFICATION OF WELLS**

Hereafter every person drilling for oil or gas in the State of Georgia, or operating, owning or controlling or in possession of any well drilled for oil or gas, shall paint or stencil and post and keep posted in a conspicuous place near the well, the name of the person, corporation, company or association drilling, operating, owning or controlling the well, the name of the farm, the number of the well and the number of the permit for the well, together with the name of the county, the land lot number and the land district number.

#### **RULE B-6—WELL RECORD (LOG)**

During the drilling of every well, the owner, operator, contractor

driller, or other person responsible for the conduct of drilling operations, shall keep at the well a detailed and accurate record of the well, reduced to writing from day to day, which shall be accessible to the Commission and its agents at all reasonable times. A copy of the record shall be furnished to the Commission upon Form Number 9, prescribed by the Commission, within thirty (30) days after the completion of any well. Well logs and electric logs shall be kept confidential, if the operator so requests in writing, for a period not to exceed six months. The well record shall describe progressively the strata, water, oil or gas encountered in drilling a well with such additional information as to gas volumes, pressures, rate of fill-up, water depths, caving strata, casing record, shooting, perforating, chemical treatment, etc., as is usually recorded in the normal procedure of drilling.

Any electrical logging or surveying of the well shall also be recorded and copy furnished the Commission within six months after completion.

#### **PULE B-7—OIL, GAS AND WATER TO BE PROTECTED**

##### **A. Protection of fresh and artesian waters**

All fresh waters and waters of present or probably future value for domestic, commercial or stock purposes shall be confined to their respective strata and shall be adequately protected. Special precautions shall be taken in drilling and abandoning wells to guard against any loss of artesian water from the strata in which it occurs, and the contamination of fresh water by objectionable water, oil, or gas.

##### **B. Strata to be sealed off and produced separately**

Before any oil or gas well is completed as a producer, all oil, gas and water strata above and below the producing horizon shall be sealed or separated in order to prevent their contents from passing into other strata. No well shall be permitted to produce oil or gas simultaneously from different strata through the same string of casing.

#### **RULE B-8—NOTICE OF INTENTION TO ABANDON SUPERVISION (PLUG)**

Before any work is commenced to abandon any well drilled for the discovery of oil or gas, including any well drilled below the fresh water level, except such holes as are described in Rule B-11, the owner or operator thereof shall give written notice to the Commission of his intent to abandon such well and submit Form Number 10 within five days. Upon receipt of such notice, the Commission or its duly authorized representative shall either approve or reject the manner of plugging proposed and may send a duly authorized representative to the location specified, to be present at the time indicated in such notice, to supervise the plugging of such well.

#### **RULE B-9—PLUGGING METHODS AND PROCEDURE**

The methods and procedure for plugging a well shall be as follows:

##### **A. The bottom of the hole shall be filled to the top of each pro-**



ucing formation, or a bridge shall be placed at the top of each producing formation, and in either event a cement plug not less than 15 feet in length shall be placed immediately above each producing formation whenever possible.

B. A cement plug not less than 50 feet in length shall be placed at approximately 50 feet below all fresh water-bearing strata.

C. A plug shall be placed at the surface of the ground in each hole plugged in such manner as not to interfere with soil cultivation.

D. The interval between plugs shall be filled with an approved heavy mud-laden fluid.

E. An uncased rotary drilled hole may be plugged with approved heavy mud up to the base of the surface string, and in the lower part of the surface pipe a plug of not less than 50 feet of cement shall be placed. The hole shall also be capped similar to other abandoned holes.

F. Any other method approved by the Commission may be used.

#### **RULE B-10—AFFIDAVIT ON PLUGGING COMPLETION—COPIES**

Within 30 days after the plugging of any well has been accomplished, the owner or operator thereof shall file Form Number 11 with the Commission, setting forth in detail the method used in plugging the well.

#### **RULE B-11—SEISMIC CORE AND OTHER EXPLORATORY HOLES TO BE PLUGGED: METHODS: AFFIDAVIT**

Before any hole is abandoned which is drilled for seismic core or other exploratory purposes below the fresh water formation, it shall be the duty of the owner or driller of any such hole to plug the same in such manner as to properly protect all water-bearing formations.

#### **RULE B-12—WELLS USED FOR FRESH WATER**

When the well to be plugged may safely be used as a fresh water well and such utilization is desired by the landowner, the well need not be filled above the required sealing plug set below fresh water; provided, that written authority for such use is secured from the landowner and filed with the Commission.

#### **RULE B-13—ORGANIZATION REPORTS**

Every person acting as principal or agent for another or independent engaged in the production, storage, transportation (except railroads), refining, reclaiming, treating, marketing or processing of crude oil or natural gas shall immediately file with the Commission on Form No. 1: the name under which such business is being operated or conducted; the name and postoffice address of such person, the business or businesses in which he is engaged; the plan of organization and, in case of a corporation, the law under which it is chartered; and the names and postoffice addresses of any persons acting as

trustees, together with the names of the manager, agent or executive thereof, and the names and postoffice addresses of any officers thereof. In case where such business is conducted under an assumed name, such report shall show the names and postoffice addresses of all owners in addition to the other information required. Immediately after any change occurs as to facts stated in the report filed, a supplementary report under oath shall be immediately filed with the Commission with respect to such change.

#### **RULE B-14—CASING REQUIREMENTS**

All oil wells shall be completed with an oil string of casing which shall be properly cemented at a sufficient depth adequately to protect the oil-bearing stratum. Cement shall be allowed to stand at least a total of 24 hours before drilling plug. Gas-producing wells shall be cased in a similar manner.

#### **RULE B-15—BLOW-OUT PREVENTION**

In drilling in areas where high pressures are likely to exist, all proper and necessary precautions shall be taken for keeping the well under control, including the use of blow-out preventers and high pressure fittings attached to properly anchored and cemented casing strings.

#### **RULE B-16—DRILLING FLUID**

At the time of drilling any well, the operator shall continuously maintain in the hole, from top to bottom, good drilling fluid of sufficient weight to control pressures which may be encountered, and shall test the blow-out preventer on said well at 24-hour intervals, or less.

#### **RULE B-17—WELL HEAD FITTINGS**

Christmas tree fittings or well head connections shall have a working pressure or a test pressure in keeping with the expected depth of the well.

#### **RULE B-18—DAYLIGHT HOURS**

All swabbing, bailing operations, or drill stem tests shall be completed in the daylight hours before sunset. No well shall be brought into production except during daylight hours.

#### **RULE B-19—CLEANING WELLS**

All wells shall be cleaned into a pit not less than one hundred fifty (150) feet from the derrick floor and one hundred fifty (150) feet from any fire hazard.

#### **RULE B-20—BOILER OR LIGHT PLANT**

No boiler or electric lighting generator shall be placed or remain nearer than one hundred (100) feet to any producing well or oil tank.

#### **RULE B-21—RUBBISH OR DEBRIS**

Any rubbish or debris that might constitute a fire hazard shall be removed to a distance of at least one hundred fifty (150) feet from the vicinity of wells, tanks and pump stations. All waste shall be burned or disposed of in such manner as to avoid creating a fire hazard or polluting streams and fresh water strata.

#### **RULE B-22—TUBING**

All flowing wells shall be equipped with and produced through tubing.

#### **RULE B-23—CHOKES**

All wells shall be equipped with adequate chokes, or beans, to properly control the flow thereof.

#### **RULE B-24—SEPARATORS**

All flowing oil wells must be produced through an approved oil and gas separator.

#### **RULE B-25—FIRE WALLS**

All permanent oil tanks, or battery of tanks, must be surrounded by a dyke or fire wall with a capacity of one and one-half (1½) times that of the tanks or battery of tanks.

#### **RULE B-26—EMULSION, B. S., AND WASTE OIL**

Wells producing oil shall be operated in such manner as will reduce as much as practicable the formation of emulsion and B. S. These substances and waste oil shall not be allowed to pollute streams or cause surface damage.

#### **RULE B-27—CASING TESTS**

The operator shall test each string of casing, in accordance with the provisions of the rules governing the field or area in which the well was drilled, and report same on Form furnished by the Commission.

#### **RULE B-28—DEVIATION TESTS**

All wells must be drilled with due diligence to maintain a vertical well bore, provided, however, a well may be intentionally deviated from the vertical after written permission has been granted by the Supervisor of the Commission, provided, however, that permission cannot be granted without notice and hearing, except side-tracking mechanical difficulties are expressly excluded. Where a well is intentionally deviated from the vertical, a directional survey of the well bore must be filed with the Oil and Gas Commission within thirty (30) days after completion of the well.

The Commission shall have the right to make, or to require the operator to make a directional survey of the hole, at the request of

an off-set operator and at the expense of said off-set operator prior to the completion of the well; and the Commission shall have the right to make or to require the operator to make a directional survey of the hole at any time, and at the expense of the operator, in order to ascertain that the well has not deviated beyond the boundaries of property on which well is located.

#### **RULE B-29—NOTIFICATION OF FIRE, BREAKS, LEAKS OR BLOW-OUTS**

All drillers, owners, operators and individuals having an interest in any oil and gas wells or pipe lines, or receiving tanks, storage tanks, or receiving and storage receptacles into which crude oil is produced, received, or stored, or through which oil is piped or transported, shall immediately notify the Commission by letter giving full details concerning all fires which occur at oil or gas wells or tanks or receptacles owned, operated or controlled by them or on their property, and all such persons shall immediately report all tanks or receptacles struck by lightning and any other fire which destroys oil or gas, and shall immediately report any breaks or leaks in or from tanks or other receptacles and pipe lines from which oil or gas is escaping or has escaped. In all such reports of fires, breaks, leaks, or escapes, or other accidents of this nature the location of the well, tank, receptacle, or line break shall be given by county, land lot and land district, and property, so that the exact location thereof can be readily located on the ground. Such report shall likewise specify what steps have been taken or are in progress to remedy the situation reported and shall detail the quantity (estimated, if no accurate measurement can be obtained, in which case the report shall show that the same is an estimate) of oil or gas lost, destroyed, or permitted to escape. In case any tank or receptacle is permitted to run over, the escape thus occurring shall be reported as in the case of a leak.

The report thereby required as to oil losses shall be necessary only in case such oil loss exceeds twenty-five (25) barrels in the aggregate

#### **RULE B-30—DETERMINING AND NAMING COMMON SOURCE OF SUPPLY**

Wells shall be classified as to the common sources of supply from which they produce and common sources of supply shall be determined and named by the Commission, provided that in the event any person is dissatisfied with any such classification or determination, an application may be made to the Commission for such classification or determination deemed proper and the Commission will hear and determine the same.

In naming the common sources of supply, reference shall be given to common usage and geographic names. Separate common sources of supply within the same area shall preferably be named according to the producing formation.

#### **RULE B-31—TAKINGS TO BE RATABLE**

Every person, now or hereafter engaged in the business of pur-

chasing and selling crude oil or natural gas in this state, shall purchase, without discrimination in favor of one producer against another, or in favor of any one source of supply as against another.

**RULE B-32—AGENTS TO HAVE ACCESS TO ALL WELLS,  
ALL WELL RECORDS, TO MAKE WELL TESTS, AND  
MEASURE PRODUCTION FROM WELLS**

All operators of oil and gas wells are required to permit and assist the agents of the Commission in making any and all tests, including bottom hole pressure and gas-oil determinations, that may be required by the Commission and Director of Production on any or all wells. The agents of the Commission shall have access to all well records, and shall be permitted to come upon any lease or property to inspect any and all wells and to gauge the production therefrom at all times.

**RULE B-33—DUAL COMPLETIONS**

No well shall be completed in any field with the casing open to one strata and the tubing open to another without a permit granted by the Commission after due notice and hearing.

## Oil

**RULE C-1—PRODUCTION TESTS**

An operator completing a new oil well or placing an old oil well on production which has been closed in during at least one month shall test the well and file the results of the test with the Director of Production within five (5) days after the test is completed. The purpose of this test is to determine that the well is capable of producing and the amount it can produce up to and including its allowable. The test shall be taken in a manner prescribed by the Commission in its Rules and Regulations and shall be filed on a Form to be furnished by the Commission which is made a part of this order. Upon receipt of such Form, the Commission will assign an allowable to the well.

**RULE C-2—OIL TO BE MEASURED**

All oil as and when produced shall be adequately measured before the same leaves the lease on which it is produced, and sufficient tankage and separator capacity shall be provided by the producer to adequately take daily gauges of all oil and gas produced, provided exceptions may be granted by the Commission in cases of water bottom lands or when physical conditions make exceptions necessary.

**RULE C-3—OIL MEASUREMENTS**

A. Quantities of oil shall be computed from correctly compiled tank tables and no deduction shall be taken therefrom. Corrections shall be made for temperature to the basis of sixty degrees (60°) Fahrenheit in accordance with the Abridged Volume Correction Table for Petroleum Oils contained in the Supplement to the National Bureau

of Standards Circular C-410 issued April 20, 1937. The full per centum of B. S. & W. as shown by the centrifugal or other tests shall be deducted after making correction for temperature.

B. Combined Correction Tables for making both temperature and B. S. & W. Correction at the same time may be used, if the combined tables are based on the above-mentioned Abridged Volume Correction Table for Petroleum Oils, and if the factors are calculated in such a manner that they give the same results as would be obtained by making the temperature correction and the B. S. & W. deduction separately.

#### **RULE C-4—GAS-OIL RATIO**

Any oil well producing with a gas-oil ratio in excess of two thousand (2,000) cubic feet of gas per barrel of oil produced shall be allowed to produce daily only that volume of gas obtained by multiplying its daily oil allowable, as determined by the allocation formula applicable to said well, by two thousand (2,000) cubic feet. The gas volume thus obtained shall be known as the daily gas limit of such well. The daily oil allowable of such well in barrels shall then be determined by dividing its daily gas limit, obtained as herein provided, by its producing gas-oil ratio in cubic feet per barrel of oil produced.

A gas well producing from the gas cap of an oil reservoir in which an oil well or wells are completed and producing shall (to the extent it can produce without waste) be allowed to produce daily only that volume of gas and other hydrocarbons which under conditions of pressure and temperature existing in the reservoir from which produced is the equivalent in volume, under like pressure and temperature, to the oil and gas which would be produced daily from that oil well in the same reservoir producing the highest daily oil allowable if its gas-oil ratio were two thousand (2,000) cubic feet of gas per barrel of oil.

#### **RULE C-5—PLANT PROJECT HEARINGS REQUIRED**

The operation of pressure maintenance plants, cycling plants, gas return plants, salt water disposal systems, and other similar projects shall be governed by Commission Rules and Regulations issued after due notice and hearing. Any person desiring to operate one of the above-mentioned projects shall first request a hearing, after which testimony of all interested parties will be considered and the proper order issued.

#### **RULE C-6—CERTIFICATE OF COMPLIANCE AUTHORIZATION TO TRANSPORT**

No pipe line shall be connected with any oil or gas well until the operator thereto shall furnish a certificate from the Director of Production that the conservation laws of the State have been complied with and that the pipe line is authorized by the operator to transport oil from the lease; provided that this rule shall not prevent the temporary connection with any well in order to take care of production

and prevent waste until the operator shall have had a reasonable time, not to exceed thirty (30) days from the date of such connection, within which to secure a certificate.

No pipe line shall disconnect from any well or lease except upon the order of the Director of Production without first securing permission to do so from the Director of Production, or without the written consent of the owner or his duly authorized agent.

Whenever the operator of any oil or gas well shall have failed to comply with all applicable laws and all applicable rules and regulations of the Commission with respect to any such well, the certificate of compliance shall be revoked, and the pipe line company connected to such well and to such property shall upon notice to do so from the Director of Production disconnect its lines and keep said lines disconnected until authorization by the Director of Production to reconnect same.

## Gas

### **RULE D-1—POTENTIAL TEST AND GAS MEASUREMENTS**

A. The potential flow of producing gas wells shall be determined at least once each year. Gas wells shall not be tested by open flow methods, but the potential flow shall be determined by the U. S. Bureau of Mines back pressure test method, or some other method approved by the Commission.

B. Measurements of gas potentials by gas wells shall be taken under the following requirements:

(1) Basic orifice coefficients used in the calculation of gas flow shall be those contained in the American Gas Associations' Gas Measurement Committee Report No. 1 and No. 2, or some other basic orifice coefficients generally accepted in the industry and approved by the Department of Conservation. Corrections for supercompressibility are recommended when equal to or greater than one per cent (1%) in cases where data are available. Corrections for Reynolds number and expansion factor are recommended only in cases where their combined correction is equal to or exceeds one per cent (1%).

(2) Gas measurements with Pitot Tubes shall be based on Reid's formula and shall follow recommendations similar to those set forth in Appendix 4 of the Bureau of Mines Monograph 7. Corrections for base pressure, base temperature, shall be made as in orifice measurements.

(3) Gas Measurements with orifice Well Testers shall follow recommendations similar to those set forth in Bulletin #E-7 of the American Meter Company. Corrections for base pressure and base temperature and gravity shall be made as in orifice measurements.

### **RULE D-2—SUPERVISION OF TESTS**

All tests made in determining the potential flow of a gas well

shall be made under the supervision of the representative of the Commission.

#### **RULE D-3—DURATION OF TESTS**

The flow tests shall continue for such duration and at such intervals as may be necessary to accurately determine the same.

#### **RULE D-4—NOTICE OF TESTS**

The flow tests may be witnessed or observed by a representative of any producer in the field and the owners or representatives of the adjoining or offset leases must be notified by the owner of the well, or his representative, on which a test is to be taken, stating the time when said test will commence.

#### **RULE D-5—GAS TO BE METERED**

All gas produced from the deposits of this State shall be accounted for by measurement and reported to the Commission either by the producer or by the purchaser of the gas. Where gas is delivered to gasoline extraction plants or gas pipe line companies for light and fuel, oil and gas development, including drilling, gas lift and repressuring, gasoline extraction before redistribution as residue, the company operating the gasoline extraction plant or gas pipe line shall be responsible for the reporting of the portion of the gas taken by them and shall make a separate report for each field or reservoir from which the gas is taken and shall make a separate report for sweet, sour and casinghead gas taken in each field or reservoir. If any producer or well owner is taking gas from a well or wells for any purpose whatsoever, which gas is not delivered to a purchasing company or person and not reported to the Commission, said producer or well owner shall make a report of such gas to the Commission on forms furnished, upon request, by the Commission. Provided, however, the gas produced incident to the production of oil, where not sold, shall only be measured and reported when ordered by special order of the Commission, and that gas used for development purposes of a temporary nature in the same reservoir or field from which it was produced, or gas used for lease purposes such as lease houses, boiler stations, crude oil heating and treating plants and salt water disposal plants when not sold need not be metered but must be accounted for by estimate based upon its use and reported to the Commission. The record of the measurement or estimate, whether it be for the individual well or the entire property, shall be kept in a permanent file and made available to the Commission's representative at all times.

#### **RULE D-6—GAS UTILIZATION**

After the expiration of seven (7) days from the time of encountering gas in a gas well, no gas from such well shall be permitted to escape into the air, and all gas produced therefrom shall be utilized for the following purposes:



A. No gas well shall be utilized except for:

- (1) Light or fuel
- (2) Efficient chemical manufacturing
- (3) Bona fide introduction of gas into oil or gas bearing horizon, in order to maintain or increase the reservoir pressure or otherwise increase the ultimate recovery of oil or gas from such horizon.
- (4) The extraction of natural gasoline therefrom when the residue is returned to the horizon from which it is produced.

B. Casinghead gas may be used for any beneficial purpose.

C. Any producer of gas may use the same as gas lift in the bona fide production of oil where such gas is not used in excess of ten thousand (10,000) cubic feet per barrel of oil produced; provided that, in order to prevent waste in any case where the facts in such warrant it, the Commission may permit the use of additional quantities of gas to lift oil, provided all such gas so used in excess of ten thousand (10,000) cubic feet for each barrel of oil shall be processed for natural gasoline when same is reproduced.

D. In the event the operator needs further time to clean a gas well after a gas sand has been encountered, the Commission will, in deserving instances, grant an extension of time to be limited by the number of days and the volume of gas required for cleaning the well.

#### **RULE D-7—USE OF GAS FOR OTHER THAN LIGHT OR FUEL**

Before any person shall engage in the utilization of gas for purposes other than light and fuel, he shall file with the Commission a verified statement setting forth the names and addresses of the person or persons who are to engage in the proposed operation, the location of the plant or plants where the proposed utilization is to be carried on, the kind and probable volume of the gas that is to be used, the reservoir from which it is to be taken, the general type of the process, and the kind and condition of the equipment that is to be used, the results to be obtained in so far as such results can be reasonably anticipated, and such other pertinent facts as the Commission may require. Upon filing said statement the Commission may, if it deems the same necessary, conduct a public hearing with reference to the proposed utilization in order to determine whether such utilization or the use of the proposed processes and equipment will constitute waste.

## **Transportation**

#### **RULE E-1—PIPE LINES, PURCHASERS AND TRANSPORTS**

A. No transporter shall transport oil from any lease or wells after said transporter has been notified in writing by a representative of the Commission that the owner or operator of said lease or wells has violated any rule, regulation or order of the Commission or any conservation laws of the State with reference to oil and gas.

B. No transporter shall accept or receive any oil from any other

transporter after having been notified in writing by a representative of the Commission that said other transporter has violated any rule, regulation or order of the Commission or conservation law of this State with reference to oil and gas.

C. In order to carry out the spirit and purposes of this and other regulations tending to provide orderly production of crude oil without waste and to give equal opportunity for marketing oil to all operators bringing wells into production in said field, all pipe line companies are hereby directed to make connection of their lines to the lease tanks on properties or leases in rotation as wells are completed, regardless of ownership. Connections shall be accepted and taken by the pipe line which by geographical location and least expense is the logical connection unless some other line is willing to accept the same.

## Processing

### RULE F-1—GENERAL ORDER

The Commission will, if deemed necessary, issue special rules, regulations and orders relating to the erection and operation of any plant or factory separating products from oil or gas or both.

## Reports

### RULE G—

The Commission finds that certain operators of oil and gas wells, refiners, and transporters of crude petroleum shall make sworn reports of their operations. The following reports and the forms prescribed by the Commission shall on or before the fifteenth day of the month subsequent to the period for which the report is made, be filed with the Director of Production. Instructions for filling out the forms are printed on the back of the forms and are considered as a part of this order. Any person carrying on operations which fall within the classification of operator, transporter, or refiner, shall make out the reports applicable to his operations.

#### A. Producer's Monthly Reports

- (1) Oil Production Report
- (2) Condensate Production Report
- (3) Gas Production Report
  - a. Casinghead Gas
  - b. Gas From Gas Wells

#### B. Transporter's and Storer's Monthly Reports

#### C. Processor's Monthly Reports

- (1) Refiner's Monthly Report of operations
- (2) Natural Gasoline Report

# STATE OF GEORGIA

## Oil and Gas Commission

Waycross, Georgia  
November 9, 1945

**ORDER NO. 1**

IN RE: RULES AND REGULATIONS  
OF STATEWIDE APPLICATION

### Order

Pursuant to the provisions of Act. No. 366 of the 1945 General Assembly of the State of Georgia, approved March 9, 1945, and

WHEREAS, after notice and hearing at auditorium of A. C. L. Y. M. C. A. June 26, 1945 at Waycross, Georgia, as provided for in Act No. 366 of the General Assembly, the Commission finds that the rules, regulations and orders hereinafter prescribed are necessary in the proper administration and enforcement of said Act No. 366, and

THEREFORE, IT IS ORDERED that these rules and regulations of statewide application be, and the same are hereby adopted and are in full force and effect, effective this date.

IT IS FURTHER ORDERED that the violation of any of the rules or regulations hereby adopted by the Commission by any person knowingly and wilfully, or by any person aiding and abetting another person in the knowingly and wilfully violation will be dealt with as is provided for in Section 19 of Act No. 366 approved March 9, 1945.

STATE OF GEORGIA  
Oil and Gas Commission  
C. W. Deming,  
Director and Ex-officio Secretary

It is so ordered by the Commission:

George M. Bazemore, Chairman  
Paul Ploeger, Sr.  
J. A. Pope

Waycross, Georgia  
November 9, 1945

**STATE OF GEORGIA**  
**Oil and Gas Commission**

Waycross, Georgia

May 31, 1949

Order No. 2.

In Re: Modification of Rules and Regulations, reducing spacing rules, insofar as they affect the counties of Dade, Catoosa, Walker and Chattooga, in northwest Georgia, and these counties only.

**ORDER**

Pursuant to the provisions of Act No. 366 of the 1945 General Assembly of the State of Georgia, approved March 9, 1945, and

Whereas, after legal notice and advertising of a hearing to consider petition of John A. Dietzen and Associates, said hearing being held at the Commission's headquarters in Waycross, Ga., on May 31, 1949, as provided for in Act No. 366 of the General Assembly, and

Whereas, evidence presented at the hearing disclosed that Rule B-4, adopted by the Commission as part of its Rules and Regulations, Nov. 9th, 1945, while considered proper for the Cretaceous area of South Georgia, could not be adhered to, without affecting adversely the Paleozoic area of Northwest Georgia, in the counties named, due to the difference in formations, and their respective porosity, as to drainage, and

Whereas, Testimony was presented indicating that practical oil men regarded a 10 acre spacing allotment for these four counties as adequate, for the proper conservation of any oil found in these four counties, and that any additional spacing would result in retarding proposed development, if not actually prohibiting same, and

Whereas, After hearing all the evidence, pro and con, from both representatives of the Majors and Independents, the Commission voted unanimously to grant the petition of John A. Dietzen and Associates, for ten acre spacing in the counties of Dade, Walker, Catoosa and Chattooga, Georgia, with the requirement that each section be divided in ten acre plots, and the well on same be drilled in the center thereof,

Therefore, it is ordered that this ruling be attached to the Rules and Regulations of the Commission, as issued originally Nov. 9th, 1945, and be made a part of same.

**STATE OF GEORGIA**  
**OIL AND GAS COMMISSION**

It is so ordered by the Commission:

Liston Elkins

Acting Director and Ex-Officio Secretary

G. M. Bazemore, Chairman

H. D. Reed

James T. Dampier

Waycross, Georgia

May 31, 1949