Attachments To Letter NPD-NRC-2009-196

Test Hole W-170

Owner	:	Army Engineers
Location	:	Trans-Florida Canal, Route 12, Hole 6, near Williston.
County	:	Levy
Elevation	:	83.9
Remarks	:	Test hole drilled late in 1932

0-5	Sand, fine quartz; some brown humus.
5-10	Clay, red, sandy.
10-15	Same as last.
15-20	Same as last with a few fragments of soft white limestone containing Lepidocyclina ocalina.
20-25	A mixture of red sandy clay and soft white Ocala limestone. Fossils noted L. ocalana and Operculinella willcoxi.
25-30	Soft limestone with slightly yellow discoloration. Same fossils.
30-35	Soft white limestone. Same fossils.
35-40	Same as last.
40-45	Same as last. Same fossils plus Gypsina globulus.
45-85	Same as last.
85-90	Same as last. (perhaps somewhat hard).
90-125	Same as last.

SUMMARY: Surface to 5 ft. Soil
5 to 20 (about) Residual clay from Ocala limestone.
20 to 125 ft. Typical Ocala limestone.

Tops - R. O. Vernon

20'	Ocala limestone (restricted)
50'	Williston member - Lower Jackson group
80'	Inglis member - Lower Jackson group
	Bottomed in Inglis member

OWNER	:	U S E D (CD 6A, Rt. 12)
LOCATION	:	1340' from south line, 1750' from west line, Sec. 35, T12S, R18E, Williston, Fla., on Williston-Bronson Road, Approx. 500' east of Sta. 1414+09
COUNTY	:	Levy
ELEVATION	:	73.63' Grd. (oil scouts)
DRILLER	:	U S E D
STARTED	:	Dec. 10, 1932
COMPLETED	:	Dec. 10, 1932
DEPTH	:	114
CASING	:	
HEAD	:	44.0'
YIELD	:	
DRAWDOWN	:	
USE	:	
QUALITY	:	
REMARKS	:	25 samples, 0-114'

0-2	Fine surface sand with some brown humus
2-5	Fine white quartz sand
5-10	Fine sand with a little red clay
10-15	Same as last
15-20	Same as last
20-25	Same as last
25-30	Same with a very few small fragments of limestone
30-35	Mixture of red clayey sand and soft white limestone with Lepidocyclina ocalana and Operculinella willcoxii
35-40	Mainly soft white limestone with some red sandy clay Same fossils as last
40-45	Soft white limestone with slightly yellow stain. Same fossils with addition of Gypsina globulus
45-65	Same
65-70	Soft yellow limestone with some brown clay
70-75	Same
75-80	Same
80-85	Soft white limestone. Perhaps somewhat harder than any above. With very small amount of brown clay
85-90	Same as last
90-95	Same, but no clay
95-100	Same
100-105	Same as last with some brown clay
105-110	Same with very little brown clay
110-114	Same

SUMMARY: Surface to 5 feet (about) Surface soil

SUMMARY (Con't)

5 feet about to 30 feet, about Residual clay
30 feet about to 114 feet Ocala limestone
The brown clay at 65 feet to 70 feet etc. is fillings of solution channels

Tops - R. O. Vernon

30' Ocala limestone (restricted)
40' Williston member (Lower Jackson group)
70' Inglis member (Lower Jackson group)
Bottomed in Inglis member

OWNER	:	U S E D (CD7, Rt. 12)
LOCATION	:	2250' from N line, 2030' from E line, Sec. 8, T13S, R18E. 7 miles SW of Williston, Fla. Sta. 1247+88.
COUNTY	:	Levy
ELEVATION	:	89.6 (Oil Scouts)
DRILLER	:	U S E D
STARTED	:	Dec. 10, 1932
COMPLETED	:	Dec. 10, 1932
DEPTH	:	124.0'
CASING	:	
HEAD	:	
DRAWDOWN	:	
YIELD	:	
QUALITY	:	
USE	:	
REMARKS	:	25 samples beginning with the surface and continuing to 124' total depth

0-5	Fine yellow sand
5-10	Same as last with very small amount of clay
10-15	Same
15-20	Same
20-25	Same, with a little more clay and a very small amount of limestone
25-45	Same
45-50	Soft white limestone. Lepidocyclina ocalana, Operculinella willcoxii, Gypsina globulus and Amusium ocalana.
50-55	Same. Some small echinoids present
55-60	Same. Laganum dalli (?)
60-85	Same
85-90	Fine sharp quartz sand and limestone
90-95	Soft white limestone
95-100	Same
100-105	Fine sharp quartz sand and limestone
105-110	Soft white limestone
110-115	Same, with a little sand
115-124	Same

SUMMARY: Surface to 5 feet. Surface soil
5 to 45" Residual material. Much more sandy than usual
45 to 124" Ocala limestone

Tops - R. O. Vernon

45' - Williston member (Lower Jackson group)
80' - Inglis member (Lower Jackson group)
Bottomed in Inglis member

OWNER	:	U S E D (CD5, Rt. 12)
LOCATION	:	Sec. 7, T12S, R20E. 7 miles northeast of Raleigh, , Fla., approx. 6500' southeast of Sta. 1902-73. Lat. 29-27-30, Long. 82-21-00. 2080' from S line, 1970' from W line
COUNTY	:	Marion
ELEVATION	:	97.44' 97.4' (Oil Scouts)
DRILLER	:	U S E D
STARTED	:	Dec. 2, 1932
COMPLETED	:	Dec. 2, 1932
DEPTH	:	142'
CASING	:	
HEAD	:	51.7'
YIELD	:	
USE	:	
DRAWDOWN	:	
QUALITY	:	
REMARKS	:	28 samples beginning with the surface and continuing to 142' total depth

0-5	Fine gray sand and humus.
5-10	Fine gray and yellow slightly clayey sand.
10-15	Brown slightly clayey sand.
10-20	Same as last.
20-25	Brown and gray sandy clay with a little carbonaceous material. Fresh water shell fragments, fish and rodent remains. One tooth of Ondatra zibethica (?)
25-35	Brown clayey sand with fragments of small bones.
35-50	Gray very sandy fullers-earth-like clay.
50-65	Soft gray clayey sandy marl, likely phosphatic.
65-70	Same as last with one fragment of hard yellow limestone.
70-85	Soft gray sandy clayey phosphatic marl.
85-90	Soft white impure limestone with fragments of Operculinella sp. ?
90-95	Same as last.
95-100	Same as last with but few impurities and some chert. Fragments of Lepidocyclina sp., Operculina ocalana, Operculinella willcoxi, Gypsina globulus, Heterostegina ocalana.
100-105	Soft white limestone and a little chert. Fossils same as last with one specimen of Laganum archerensis.
105-110	Same as last.
110-142	Same as last with Lepidocyclina ocalana.

SUMMARY:	Surface to 35	There seems to be an admixture of material from Pleistocene to possibly Miocene but laid down likely not earlier than Pliocene.
	35 to 50	Seems to be weathered Hawthorn formation and if so might be placed in the Alachua formation of Pliocene age.

50 to 85	Hawthorn formation (Miocene)
85 to 95	Mixture of Hawthorn and Ocala limestone.
95 to 142	Ocala limestone.

OWNER	:	U S E D (CD 8, Rt. 12)
LOCATION	:	1080' from S line, 400' from W line. Approx. 2000 ' north of Sec. 31, T13S, R17E. 7 miles SE of Otter Creek, Fla. Sta. 780+99
COUNTY	:	Levy
ELEVATION	:	39.8 Grd. (Oil Scouts)
DRILLER	:	U S E D
STARTED	:	Dec. 8, 1932
COMPLETED	:	Dec. 8, 1932
DEPTH	:	70'
CASING	:	
HEAD	:	
YIELD	:	
DRAWDOWN	:	
USE	:	
QUALITY	:	
REMARKS	:	17 samples, 0-70' total depth

0-2	Fine sand and much humus and roots
2-5	Fine yellow sand
5-10	Same as last
10-15	Same as last
15-20	Same
20-25	Fine sand with a very little brown clay
25-30	Brown slightly sandy clay with detrital fragments of hard limestone. Numerous fragments of flat echinoids.
30-35	Same with less limestone
35-36.5	Cavity
36.5-40	Brown sandy clay with small fragments of detrital limestone. Fragments of flat echinoids noted
40-42.5	Cavity
42.5	Same as last but with considerable detrital limestone
45-46.5	Cavity
46.5-50	Same
50-51.5	Cavity
51.5-55	Same, with one specimen of Venericardia sp. which looks like a Pleistocene or Recent form
55-60	Same
60-65	Same, with 1 specimen each of Glycymeris pectinata and Cerithium sp.
65-70	Same as last but with very little limestone

SUMMARY: This well appears to have been drilled in an old solution channel. The mollusks at 51.5 to 55 feet and 60 to 65 feet are not older than Pleistocene. The detrital limestone all appears to represent what has been called the "Miliolite limestone" of Pleistocene age. The "Miliolite limestone" is found at the surface in the vicinity of this well and is but a thin strata whereever penetrated. It lies immediately on the Ocala limestone. Often the "Miliolite limestone" is made up of limestone detrital from the Ocala with Pleistocene material.

W-211
(E. E. Rainwater)
May 5, 1944

OWNER	:	U. S. E. D. (CD8, Rt. 12)
LOCATION	:	7 miles southeast of Otter-Creek, Fla., Approx. 2000' north of Sec. 31, T13S, R17E, Sta. 780+99
COUNTY	:	Levy
ELEVATION	:	39.8' Gr.
STARTED	:	December 8, 1932
COMPLETED	:	DEcember 8, 1932
DEPTH	:	70'
DRILLER	:	U.S.E.D.
REMARKS	:	17 samples beginning with the surface and continuing to 70' total depth

0-10	Fine sand.
10-20	Medium coarse sand.
20-25	Slightly indurated sand.
25-30	Soft, dirty brown, calcareous sandstone. Common chalky shells.
30-35	Same, with very rare Asterigerina (?) sp. and Gypsina (?) sp.
36.5-40	Brown, calcareous, medium-grained sand, with rare leached fossils.
42.5-45	Hard to soft, buff, sandy, porous, dolomitic limestone, with miliolids and rare and poorly preserved megafossils.
46.5-50	Buff, sandy, dolomitic limestone, and porous, calcareous, friable sandstone.
51.5-55	Buff, medium-coarse sand. Miliolids and rare echinoid and molluscan fragments.
55-65	Buff, calcareous sand. Few leached fossils.
67-70	Last sample. Dirty brown, soft, calcareous sandstone, like that in sample 25-40 feet.

W-211
(Eleanor Caldwell)
March, 1946

OWNER	:	U.S.E.D. (CD8, Rt. 12)
LOCATION	:	7 miles southeast of Otter-Creek, Fla., Approx. 2000' north of Sec. 31, T13S, R17E, Sta. 780+99
COUNTY	:	Levy
ELEVATION	:	39.8'Gr.
STARTED	:	December 8, 1932
COMPLETED	:	December 8, 1932
DEPTH	:	70'
DRILLER	:	U.S.E.D.
REMARKS	:	17 samples beginning with the surface and continuing to 70' total depth.

0-25	Fine, yellowish-stained sand.
25-30	Possible Top Avon Park - ?Middle Eocene. White, porous, fossiliferous limestone, badly stained; common echinoid fragments: ?Coskinolina sp. (rare).
30-35	Same.
36.5-70	Tan, porous, saccharoidal dolomite; fossil molds fairly common; in Avon Park at T. D.

OWNER	:	U S E D (CD 9, Rt. 12)
LOCATION	:	2555' from N line, 855' from E line, Sec. 20, T14S, R16E. At Gulf Hammock, Florida
COUNTY	:	Levy
ELEVATION	:	11.9 (Oil Scouts)
DRILLER	:	U S E D
STARTED	:	Dec. 5, 1932
COMPLETED	:	Dec. 5, 1932
DEPTH	:	40'
CASING	:	
HEAD	:	8.8'
YIELD	:	
USE	:	
DRAWDOWN	:	
QUALITY	:	
REMARKS	:	9 samples beginning with the surface and continuing to 40' total depth

0-1	Sandy loam
1-5	Very sandy red to gray clay with a very few small pieces of soft white Ocala limestone. Lepidocyclina ocalana (The limestone looks like sample contamination).
5-10	Soft yellow fine grained marl with fragments of hard slightly sandy limestone which looks like detrital material. One fragment of Chione cancellata. A few fragments of phosphatic (?) material
10-15	Same
15-20	Same, a few fragments of recent (?) shells
20-25	Mainly detrital hard limestone fragments discolored brown to black with fine silt and sand. Fragments of flat echinoids and recent (?) shells.
25-30	Same
30-35	Same
35-40	Same

SUMMARY: All the material in this hole appears to be detrital and perhaps not older than Pleistocene. The well is likely all in river channel material.

W-212
(Eleanor Caldwell)
March, 1946

OWNER	:	USED (CD9, Rt 12)
LOCATION	:	At Gulf Hammock, Fla., Sec. 20, T14S, R16E
COUNTY	:	Levy
ELEVATION	:	11.9'
STARTED	:	December 5, 1932
COMPLETED	:	December 5, 1932
DEPTH	:	40'
DRILLER	:	U S E D
HEAD	:	8.8'
REMARKS	:	9 samples beginning with the surface and continuing to 40' total depth

0-5	Fine, white sand.
5-10	Probable top Avon Park - ?Middle Eocene. Tan, fine-grained, porous, saccharoidal dolomite. ?*Coskinolina floridana*, (one dolomitized fragment).
10-15	Same.
15-20	Same plus gray, dense, fine-grained dolomite. *Dictyoconus cookei* (rare)
20-35	Gray and brown, vuggy, saccharoidal dolomite. *Dictyoconus cookei*.

OWNER	:	U.S.E.D. (CD 6A, Rt. 12)
LOCATION	:	345' from N line, 2180' from W line, Sec. 27, T13S, R17E, 9 miles southeast of Bronson, Fla. at Sta. 986+17
COUNTY	:	Levy
ELEVATION	:	72.2 (Oil Scouts)
DRILLER	:	U S E D
STARTED	:	Dec. 17, 1932
COMPLETED	:	Dec. 17, 1932
DEPTH	:	95'
CASING	:	
HEAD	:	
YIELD	:	
USE	:	
DRAWDOWN	:	
QUALITY	:	
REMARKS	:	19 samples beginning with the surface and continuing to 95' total depth

0-2.5	Fine light yellow sand
2.5-5	Same as last
5-10	Fine sand and yellow ocher
10-15	Same as last
15-20	Same, but less ochre
20-25	Same
25-30	Fine white sand
30-35	Same
35-40	Same
40-45	Same
45-50	Same
50-55	Same
55-60	Same
60-65	Same
65-70	Same
70-75	Same
75-80	Same
80-85	Same
85-90	Same
90-95	Same

SUMMARY: There is nothing present in this hole on which to base a correlation. It is likely that there is nothing present older than Pliocene or even perhaps Pleistocene. The hole is in a solution depression apparently as Ocala limestone should be fairly close to the surface.

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REPORT ON SAMPLES FROM THE FLORIDA OIL DISCOVERY COMPANY WELL NO. 2, CEDAR KEYS COMPANY, LEVY COUNTY, FLORIDA

9-20-1937

40- 55	Cuttings of hard, white, chalky, highly micro-fossiliferous limestone; fauna present generally firmly imbedded in the limestone fragments, but species noted indicate that the sample is Ocala (Upper Eocene) in age.
89- 92	Cuttings of a hard, white, somewhat porous, miliolid limestone and fragments of a light brown, crystalline limestone. In addition to the numerous miliolids present, many small specimens of Operculina cf. willcoxi noted. The character of the lithology and fauna present in this sample indicate that it represents a phase of the lower Ocala, common in central Florida.
93-381 (?)	"Second Reamings". Cuttings of pebbly, water-worn, tan to cream-colored, rather spongy-looking limestone and some fragments of grayish-brown, finely granular, crystalline limestone; impressions of fragments of fossils occasionally noted; about 25% clear, quartz sand present in the fine screenings; a few Ocala small forams noted, no representations of older horizons seen.
398	Cuttings of a highly, porous (spongy), grayish-cream-colored limestone; limestone probably originally highly micro-fossiliferous but so altered, probably by percolating waters, as to make the fossil content indeterminable; a few fragmentary impressions and internal broken molds noted.
420	Cuttings of a dense, cream-colored, occasionally slightly porous limestone, apparently non-fossiliferous.
443	Cuttings of a cream-colored, hard, porous limestone; impressions of fragments of large fossils (Pecten cf.) occasionally noted.
463	Cuttings of a hard, cream-colored, irregularly porous limestone; a few fragments of Ocala forams apparently coming down the hole.
484	Fragments of limestone, as above; also many fragments of a dark brownish-gray, hard, calcareous and carbonaceous shale; and many fragments of selenite.
506	Sample composed mainly of fragments of a dark grayish-brown, granular crystalline limestone, carrying small inclusions of selenite; some fragments of dense, cream-colored, irregularly porous limestone.
529	Like the preceding.
552	Cuttings of material similar to the preceding; also many fragments of a dense, deep cream-colored, somewhat porous and somewhat gypsiferous limestone.

573 Cuttings of a deep cream-colored, slightly porous, calcitic limestone, showing occasional small inclusion of selenite; no fossils noted.

NOTE: Samples 40-92', represent the Ocala upper Eocene horizon.

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575-596 Cuttings of light brown, granular, porous and gypsiferous calcite, gypsum about 10%; no fossils noted.

596-615 Like the preceding.

615-638 Similar to the preceding, but lighter in color and somewhat less porous; a small number of the fragments show splotches and streaks of a brownish-black (carbonaceous?) material.

638-659 Like the preceding.

659-679 Like the preceding.

679-701 Fragment of light and dark brown, granular, crystalline, porous limestone, and about 10% selenite.

701-723 Cuttings of light brown, granular, crystalline, porous limestone, and about 2% selenite.

725-746 Cuttings of light to dark brown, granular, crystalline, somewhat porous limestone, showing some small traces and a few nodules of brownish-black (carbonaceous?) material, and many fragments of a hard, light tan-colored, somewhat porous limestone; about 10% selenite.

745-768 Cuttings of light brown, granular, crystalline to cryptocrystalline, somewhat porous limestone; a few fragments of chalky limestone, possibly coming from higher depths; and a fraction of a percent of selenite.

768-790 Cuttings of a brown, granular, crystalline, somewhat porous limestone, and about 5% selenite.

790-811 Like the preceding; a few of the fragments showing small streaks and inclusions of the brownish-black, earthy (carbonaceous?) material.

811-833 Cuttings of a light brown, porous, granular, crystalline, limestone, about 20% fragmentary fossil material present in the limestone; fragments of Dictyoconus sp., some Bryozoan fragments and specimens common to this horizon a few Ostracod carapaces and a few Echinoid spines; about 1% selenite also present.

833-855 Cuttings of a white, calcitic and chalky, highly fossiliferous, porous limestone; fragments of Dictyoconus, Echinoid and Bryozoan; many species of Rotalidae and Miliolids common to the Dictyoconus (Middle Eocene) zone of Florida; a few specimens of Lepidocyclina, also common to phase of this zone; some characteristic Ostracod carapaces are also present, and a few specimens of Amphistegina cf. lopeztrigoi; a small amount of selenite and a trace of glauconite present.

855-877 Like the preceding; some specimens of Patellina sp. also present.

877-898 Similar to the preceding, but material more granular and calcitic and fossils not so well preserved.

NOTE: The top of the Dictyoconus (Middle Eocene) horizon was found in the sample taken from 811' to 833'; the remaining samples represent the upper phase of that horizon.

939-961 Cuttings of dark brown, granular, crystalline limestone and about 25% small fragments of a hard, light gray, slightly porous fossiliferous limestone; a few fragments of selenite and an occasional fragment of Dictyoconus gunteri.

961-983 Like the preceding; the hard, gray limestone is apparently interbedded with or scattered irregularly through the brown, granular, crystalline limestone; Bryozoan fragments and fragments of Dictyoconus species fairly common at this depth; selenite present as above.

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983-1068 Cuttings of a cream-colored limestone, loosely consolidated and highly impregnated with chalk and calcite molds of microfossils and fragments of microscopic fossils, including an abundance of Bryozoan fragments and many molds of small Gastropods; the material is finely cut and most of the fossil material very fragmentary; common forms noted, were:

Dictyoconus sp. (a few fragments)
Massinilina sp.
Triloculina cf. trigonula
Amphistegina cf. lopeztrigoi
Gunteria floridana (present, but rare)
Asterigerina sp.
Eponides sp.
Rotalia cf. viennote
Haplostiche (?) sp.
Discorbis (?) sp.

1068-1091 Cuttings of a hard, cream-colored, fossiliferous limestone, similar to the preceding, but fewer fossils present, Gunteria floridana, the only fairly abundant species noted; scattered specimens of the other forms mentioned above also present.

1091-1102 Cuttings of a dense, light cream-colored, somewhat fossiliferous limestone, and a small amount of selenite; some fragments of Bryozoans and fragments of a small worm-like structure and reticulate tubular structure fairly common; a few fragments of Gunteri (?) and a few fragments of Dictyoconus sp. present.

1102-1132 Cuttings of a dense, white limestone, similar to the preceding in character and fauna; selenite about 5% of sample; some fragments of Gunteri floridana and Dictyoconus gunteri, and a few specimens of Helicostegina cf. gyralis and several bivalves and gastropods also noted.

1132-1155 Cuttings of a cream-colored, hard, highly fossiliferous limestone and a small amount of selenite; fossil material very fragmentary and poorly preserved; as a rule, species noted same as for the preceding sample, some fragmentary molds of small gastropods and Pelecypods also noted. In addition to the Dictyoconus gunteria and Gunteria floridana, which were fairly common in the preceding sample, the following species were also noted:

Rotalia cf. viennoti
Ceratobulimina (?) sp.
Verneuilina (?) (a large triangular form)
An unidentified Orbitoid
Discorbis (?) sp.

1155-1177 Cuttings of a dense, light cream-colored limestone, fragments of which frequently have a rolled, pebble-like, water-worn appearance and about 50% brown, finely granular dolomite limestone with a small amount of selenite also present; fauna present, the same as for the preceding sample.

1177-1199 Cuttings of a soft, white, chalky, micro-fossiliferous limestone, which contained about 30% irregular areas of granular crystalline calcite, apparently scattered through the chalky lime; fragments of Bryozoans and (poor molds, often fragmentary) micro-fossils common in the material. Of these, the following species were common:

Discorbis (?) sp., as above.
Verneuilina (?) sp.
Eponides yeguaensis.

1199-1220 Cuttings of a hard, white, fossiliferous limestone, and a small amount of selenite present; some fragments of Dictyoconus gunteri, Gunteria floridana and some poorly preserved smaller foraminifera common to the zone; also some fragments of Bryozoans, Echinoid spines and a few molds of small Gastropods present; most of the fossil material at this depth, fragmentary and very poorly preserved.

1222-1243 Cuttings of chalky, fossiliferous limestone with many calcite inclusions and a small amount of selenite; fossil material preserved in form of fragmentary chalk or calcite molds; fauna the same as for the preceding sample and generally poorly preserved.

1243-1265 Cuttings of a hard, white, highly fossiliferous limestone and about 25% fragments of moderately coarse, granular calcite, apparently formed as inclusions in open spaces in the limestone, Gunteria floridana very common at this depth; small Miliolids also very common; some small, rounded, conical specimens

of Dictyoconus also present and scattered specimens of some smaller foraminifera characteristic of the Dictyoconus zone, and fragments of Bryozoans and some microscopic fossils; a small amount of glauconite present in the limestone, and selenite also present, as in the preceding samples.

1265-1287 Cuttings composed mainly of fragmentary light brown, slightly glauconitic, granular, crystalline limestone, frequently streaked with calcite; about 25% fragments of hard, white, highly fossiliferous limestone, as in the preceding sample; Dictyoconus gunteri very abundant at this depth; Gunteria floridana still common, although their preservation suggests that they possibly are coming mainly from the white limestone just above this depth; an Orbitoid form is also common and apparently indigenous; some species of smaller foraminifera common throughout the Dictyoconus zone also present, including Rotalia cf. viennoti.

1287-1300 Cuttings of a cream-colored, fossiliferous and somewhat calcitic and slightly glauconitic limestone, similar to that described from 1243-1265'; selenite forms about 10% of the sample at this depth; Dictyoconus gunteri and Gunteria floridana common and many molds of a small Gastropod, resembling Conus sp., present.

SUMMARY

All of the samples covered by this report represent the Dictyoconus horizon.

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1301-1308 Cuttings of a hard, white micro-fossiliferous limestone, carrying fragments of Bryozoans, Echinoids, fragments of a small, many chambered gastropod, and numerous forams, Dictyoconus gunteri common, and the following species present but not abundant:

Gunteria floridana
Orbitoid (Sp. ?)
Helicostegina cf. gyralis
Amphistegina cf. lopeztrigoi

and several species of smaller foraminifera common to the Dictyoconus-Middle-Eocene horizon; some selenite in pockets in the limestone.

1308-1312 Cuttings of limestone, similar to the preceding and about 50% fragments of a light brown, granular, crystalline limestone; the granular fragmentary material probably fills pockets in the hard limestone; some selenite present, as above; forams also the same as for the preceding sample.

1312-1331 Like the preceding.

1331-1352 Hard, fossiliferous limestone like the preceding and about 20% fragments of a greenish-tan-colored, very finely granular,

crystalline limestone; fauna similar to that noted in the preceding samples, with fragments of a large, low variety of Dictyoconus gunteri very common; in addition to the Dictyoconus gunteri, the following species were well represented at this depth:

*Gunteria floridana
Rotalia cf. viennoti var.
Orbitoid sp. B
* Helicostegina cf. gyralis
Discorbis sp.
Triloculina trigonula

The forms marked with the asterisk are strongly dominant.

1352-1375 Cuttings of a white, hard, chalky, fossiliferous limestone and some fragments of rather coarsely granular, greenish-tan-colored calcite; fauna the same as for the preceding sample, Helicostegina cf. gyralis very common in this and the immediately preceding depth.

1375-1387 Materials similar to the preceding, but with fewer forams present. General faunal assemblage same as for the preceding samples; a small amount of light gray chert and some selenite also present.

1387-1394 Cuttings of cream-colored fossiliferous limestone as above, and about 25% light brown, granular calcite (evidently filling crevices in the limestone); a small amount of selenite and about 5% light gray and brown chert; foram fauna same as listed from 1331-1352.

1394-1416 Cuttings of a cream-colored, hard fossiliferous limestone; a small amount of chert and some fragments of brown, granular calcite; fauna similar to that of the preceding sample, but specimens comparatively rare.

1416-1438 Cuttings of cream-colored, fossiliferous limestone similar to the preceding; a few nodules of brown, granular calcite; a trace of selenite and about 1% chert present; forams rare, the most common species present is a fairly large, finely beaded Orbitoid sp. scattered specimens of all foram species noted from higher depths in this report also present.

1438-1461 Like the preceding.

1461-1482 Cuttings of a hard, cream-colored, slightly porous and somewhat fossiliferous limestone, carrying a small amount of selenite and some inclusions of granular calcite; some specimens of Gunteria floridana, a few fragments of Dictyoconus gunteri, and some specimens of smaller foraminifera common to the Dictyoconus horizons and numerous sections of small Miliolids present in the rock fragments.

1482-1495 Cuttings of a hard, cream-colored limestone, as above; also many fragments of a white, porous limestone, having a finely oolitic appearance from being composed mainly of calcitic molds of very small foraminifera; this limestone also carried

many specimens of a small elongated, conical-form (related probably more closely to Coskinolina than to Dictyoconus gunteri) and Gunteria floridana present.

1495-1505 Cuttings composed mainly of brown, granular, crystalline, dolomitic limestone; a few fragments of limestone and a few forams (species same as for the preceding sample), and about 1% selenite also present.

1505-1510 Cuttings of dark brown, granular, crystalline, dolomitic limestone, with about 5% selenite (filling small, inter-spaces between the limestone crystals), a small amount of hard, white, fossiliferous limestone; and a number of specimens of Gunteria floridana, Dictyoconus gunteri, Dictyoconus "X" Helicostegina cf. gyralis, some gastropod molds, and a few specimens of smaller foraminifera common to the zone; Dictyoconus gunteri is obviously indigenous; the other species present may have come down the hole from slightly higher depths.

1510-1515 Core. Hard, white lime; the lime has an oolitic appearance from being composed mainly of chalky molds of small foraminifera; some scattered crystals of brown calcite present; Dictyoconus (?) sp. "Z" is the common and characteristic foram species present; many specimens of a small, conical Amphistegina (?) sp. (?) also present.

1518-1525 Cuttings of a hard, white, fossiliferous limestone, and some fragments of brown, granular, crystalline limestone; the fossils are preserved as chalky molds; the dominant foram at this depth is a large and highly ornamented variety of Rotalia viennoti; other common species at this depth are species of a Miliolid (new to the section), fragments of a large variety of Dictyoconus gunteri, a specimen of a larger and more broadly conical variety of Amphistegina? sp. as noted in the preceding sample; a few, apparently indigenous, specimens of Gunteria floridana also present.

1518-1521 Core. Hard, white limestone; a white, porous coquina composed largely of chalky and often calcite encrusted molds of micro-fossils; Miliolids common in this material; other common species noted were: Dictyoconus (large variety) and Rotalia viennoti variety.

1525-1548 Like the preceding, with many of the limestone fragments showing calcite crystals, singly and in small clusters, filling porous spaces in the limestone.

1548-1570 Cuttings of a brown, granular, crystalline limestone and about 25% fragments of a cream-colored, chalky, fossiliferous limestone, which apparently represents at least partly unaltered portions of the original limestone; some forams present, including Gunteria floridana, which is apparently coming down the hole from higher depths; fauna otherwise like that noted in the preceding sample; some fragments of the chalky portions of the limestone show small inclusions of glauconite.

OWNER	:	Florida Oil Discovery Company
FARM NAME	:	No. 2 Sholtz land
LOCATION	:	98' from N line, 2700' from E line. NE/4 of NW/4 of Sec. 16, T15S, R13E. 1500' north of old test abandoned in 1932 at 4010'. About 4 miles NE from Cedar Keys on State Highway No. 13.
COUNTY	:	Levy
ELEVATION	:	8.9' Grd. (Oil Scouts) 12 df.
CONTRACTOR	:	M. Stoner, Supt., Fred Swenson, Driller
STARTED	:	May 10, 1937, lost first hole or No. 1 skidded 20' and started No. 2
COMPLETED	:	Aug. 5, 1939
USE	:	Oil test
DEPTH	:	5266'
DRAWDOWN	:	
CASING	:	38' of 18" Steel-Surface; 94' of 10" conductor; 382' of 8" casing 3986' of 6" casing
HEAD	:	
YIELD	:	
REMARKS	:	First 12 samples received from Dr. E. A. Hill, 9/13/37, 40'-573' Samples have been received at periodic intervals from Dr. Hill so now the Survey has complete set terminating at 5266'. (263 cuttings & 8 cores). Halliburton from 3986 to 4948', Driller's log from 0 to 5266'. 263 cuttings, 40-5266' & 8 cores 4059-62' to 4964-66'

Pipe and Casing in Hole:

18" Steel-surface	38'
10" Conductor	94'
8" Casing	382'
6" Casing	3986'

There was sunk first a cribbing 15' then material filled around it and the 18" was run to 38' and set on lime. The 10" and 8" are set in limestone.

18	Surface Sand
18-48	Soft lime
48-85	Hard lime
85-97	Flint rock
97-100	Soft with cavity
100-104	Hard rock
104-130	Hard lime soft streaks

130-133	Hard lime
133-146	Broken lime
146-149	Hard lime
149-165	Soft lime
165-211	Hard lime
211-214	Hard rock
214-265	Hard lime, soft streaks
265-330	Soft lime
330-333	Hard streaks
333-355	Lime
355-382	Soft sulphur water
382-386	Hard lime
386-388	Hard lime
388-400	Soft lime
400-402	Hard lime
402-442	Soft lime, hard streaks
442-446	Hard rock
446-495	Hard lime, and streaks of shale
495-524	Solid hard lime
524-529	Soft brown, lime and shale
529-540	Hard lime and shale
540-620	Hard brown, lime in streaks
620-677	Brown lime and some gypsum
677-683	Soft black lignite
683-692	Gypsum and brown lime streaks
692-710	Hard lime and gypsum
710-809	Lime, lignite and shale
809-813	Soft lignite
813-904	Soft lime and lignite
904-912	Hard lime
912-920	Soft lime, streaks lignite
920-932	Soft lime, water
932-940	Hard brown lime
940-970	Lime, sand and lignite
970-980	Hard lime
980-1040	Sand, lime and lignite
1040-1046	Lime soft streaks
1046-1060	Sand and lime
1060-1070	Lime
1070-1107	Sand and lime
1107-1112	Soft lime
1112-1122	Lime
1122-1145	Hard lime
1145-1153	Soft lime
1153-1177	Hard dolomite rock
1177-1200	Soft sand
1200-1240	Soft brown lime
1240-1260	Broken formation
1260-1265	Hard limestone
1265-1277	Brown lime and shale
1277-1285	Hard lime and dolomite
1285-1288	Soft lime

1288-1309	Hard limestone
1309-1328	Secondary chalk
1328-1333	Hard limestone
1333-1340	Secondary chalk
1340-1360	Hard limestone, water
1360-1395	Secondary chalk, limestone hard
1395-1403	Gray limestone
1403-1450	Chalk soft broken
1450-1465	Hard gray limestone
1465-1490	Chalk and limestone
1490-1506	Hard limestone and dolomite
1506-1535	Soft marl lime
1535-1545	Hard limestone and dolomite
1545-1548	Soft marl lime
1548-1564	Hard gray limestone
1564-1569	Soft marl lime
1569-1596	Hard gray limestone
1596-1603	Soft marl lime
1603-1608	Hard gray limestone
1608-1614	Soft marl lime
1614-1622	Hard gray limestone
1622-1656	Hard gray limestone, and dolomite
1656-1659	Soft marl lime
1659-1730	Hard gray limestone and dolomite
1730-1772	Chalky limestone soft
1772-1785	Hard lime and clay
1785-1840	Dark lime, sand and dolomite
1840-1911	Hard limestone and sand
1911-1912	Soft marl lime
1912-1960	Dark limestone and dolomite
1960-1968	Crystallized formation
1968-2035	Sandy lime and shale
2034-2055	Secondary chalk
2055-2166	Dark shaly limestone
2166-2179	Limestone, dolomite and shale
2179-2210	Chalk and dark limestone
2210-2230	Gray limestone, dolomite and blue chalk
2230-2295	Hard gray limestone and dolomite
2295-2360	Brown limestone
2360-2397	Gray limestone and dolomite
2397-2400	Hard limestone
2400-2415	Gray limestone and dolomite
2415-2489	Gray limestone
2489-2540	Dark shaly lime
2540-2570	Blue shaly, chalky lime
2570-2590	Blue shaly, soft chalky lime
2590-2660	Chalky lime
2660-2670	Chalky white lime hard
2670-2720	Brown lime muddy
2720-2768	Chalky lime
2768-2780	Brown limestone
2780-2815	Chalky lime
2815-2820	Hard brown limestone

4556-4568	Core: yellow, quartz sand (ashy?)
4570-4606	Yellowish-brown, ashy sand with streaks gray, calcareous shale
4606-4642	Same. More shale
4645-4731	Same
4731-4760	Yellow, silty, ashy sand
4760-4821	Same, with streaks of grayish-green shale
4821-4837	Sand and red and gray shale
4837-4861	Same
4861-4879	White sand with streaks of varicolored shale. Yellow quartz grains
4879-4903	Bit sample: calcareous, red shale
4903-4944	Brownish sand and varicolored, calcareous shale
4944-4964	Same
4964-4966	Core: light gray, ashy sand and mustard-brown shale
4966-5014	Gray, calcareous shale (few pieces brown shale) and sand (rounded, frosted grains).
5014-5031	Same
5031-5083	Brownish sand with streaks varicolored shale
5083-5095	Brownish sand and mustard-brown, sandy shale with streaks of red shale
5095-5103	Sand and varicolored shale
5103-5118	Gray shale with streaks of red shale and sand
5107	Bit sample: red, white and yellow, sandy shale
5118-5139	Yellowish sand and gray shale with streaks of red and brown shale
5139-5144	Yellowish sand, streaks of varicolored shale
5144-5159	Same
5159-5166	Same
5170	Bit sample: Yellow to pink to gray mottled with inclusions
5166-5173	Same
5173-5181	Same
5181-5194	Same
5194-5218	Same
5200	Bit Sample: Yellowish-brown calcareous (pseudoolitic?) shale.
5200-5265	Same

NOTE: All Lower Cretaceous red and yellowish-brown shales are somewhat mottled and have inclusions - evidence that much of this section was undergoing weathering during time of deposition.

SUMMARY

Ocala limestone	40-?
Avon Park	?-400'
Tallahassee equiv.	400-811
Lake City limestone	811-1308
Oldsmar limestone	1308-1986
Cedar Keys limestone	1986-2531
Lawson limestone	2531-3239
Taylor	3239-3675
Austin	3675-?
Lower Cretaceous	4268-5265'

OWNER: Farris Packing Company
LOCATION: Floral City, NW/4 SW/4 NW/4 Sec. 15, T20S, R20E.
COUNTY: Citrus
ELEVATION: 63.59' (This elev. is pump house floor)(H. T. Chittum, Jr., 2/17/49
STARTED:
COMPLETED: May 20, 1943
CASING: 146' of 8"
DEPTH: 200'
DRILLER: Layne-Atlantic Company, Orlando, Florida
HEAD: -35'
YIELD: 150 GPM DRAWDOWN: 10'
USE:
REMARKS: 19 samples, from 20' to 179' brought in by H. Gunter, Dec. 6, 1944. Some samples illegible, discarded.

0-10	No sample.	
10-20	Fine to very coarse, yellow, angular quartz sand. Pleistocene.	
20-30	Same.	
30-35	As above, but colorless.	Lower Ocala?
35-40	Fine to very fine, yellow, argillaceous, quartz sand with white limestone fragments.	
40-45	Coarse to medium, yellow, very argillaceous, quartz sand and limestone fragments.	
45-55	No sample	
55-60	White, soft, finely granular porous limestone. Lower Ocala. Gypsina, large Amp. pinarensis var. Massilina sp.	
60-65	Same.	
65-70	As above, harder, many echinoid fragments. Gypsina, large Amp. pinarensis var. Massilina sp.	Gulf Hammock fm. Eodictyoconus Bed.
75-80	Light gray, hard, granular, dense, miliolid limestone. Many echinoid rhombs. Coskinolina.	
80-85	Same.	
85-90	Same as above. Dictyoconus. (Slide)	
90-95	Same.	
95-100	No sample.	
100-110	As above plus brown, finely crystalline, dense, dolomitic limestone. Coskinolina. Elphid. "A" (Slide)	Avon Park Limestone.
110-120	Cream to tan, dense, hard, dolomite (?) limestone. Fossils above.	
120-125	No sample.	
125-135	Limestone as above and granular, dense dolomite and tan silty dolomite.	
135-140	Hard, brown, dense, dolomite.	
140-145	Same.	
145-147	Tan, very finely crystalline(silty), porous dolomite, as above, but indurated at 147 feet.	
147-160	Cream, porous, soft, granular, miliolid limestone.	

160-170	Dolomite as above.
170-179	Very porous, spongy, brown dolomite.

SUMMARY

0-35	Pleistocene sands.
35-70	Eocene
	Lower Ocala limestone 35-70'
	Gulf Hammock formation 70-179'
	Eodictyoconus Bed at 70'
	Avon Park limestone at 100'

W-1007
E. R. Applin

PERMIT # 13
OWNER : Sun Oil Company
FARM NAME : J. T. Goethe No. 1
LOCATION : 1980' N, 660' E of SW cor. of Sec. 31 T14S, R17E, about 4 mi SE of Gulf Hammock
COUNTY : Levy
ELEVATION : 28.8' grd., 34' DF
STARTED : April 2, 1946
COMPLETED : June 8, 1946
DEPTH : 3997'
CASING : 40' of 16", 1046' of 10¾" w/546 sks 2478' of 7 5/8" w/175 sks.
CONTRACTOR : Penrod Drilling Company
USE : Test for Oil
REMARKS : 442 samples 45-3985½', brought in in May and June 1946. Water Analysi Core record, Schlumberger.

45' Depth of first sample

TOP OF AVON PARK - UPPER MIDDLE EOCENE

45-75 Limestone, hard, cream, coquinoidal; abundant molds of miliolids; and dolomite, tan and dark brown, very fine grained, very finely porous, in part, moldic with chalky traces of fossil remnants in the voids. A few specimens of Dictyoconus floridana.

75-105 Limestone, as above 50%, and dolomite, brown, highly moldic with some inclusions carbonaceous material. Specimens of D. floridanus and Spirolina coryensis, washing from the limestone.

105-135 Limestone, like the preceeding and a trace of dolomite. Many specimens of forams characteristic of the Avon Park.

135-165 Limestone and dolomite as above, also fragments dense, moderately hard, tan, dolomitic limestone with irregular gray pyritic areas.

165-195, 195-225, 225-255 Same

APPROXIMATE TOP OF LAKE CITY - LOWER MIDDLE EOCENE

255-285 Materials similar to preceeding with addition of some fragments of a light gray moldic and dolomitic limestone; a few chert inclusions. A worn specimen of Dictyoconus americanus and a few of Fabularia vaughani.

285-315 Cut of large nodular fragments of white and light tan finely porous and highly moldic limestone (abundant traces of fragmental fossil impressions). Some gray cherty areas in the light tan lime-stone. Good section of Dictyoconus americanus in a tan limestone chip.

315-345 Materials similar to preceeding but limestone chips less moldic and porous and no determinable faunal material noted.

345-375 Same and many fragments of a white, chalky limestone containing a few vague traces of fossil material.

375-405 Same, white, chalky textured limestone fragments about 50% of sample.

405-435 Same and many fragments of dark brown chert.

435-465 Limestone, brown, dolomitic, highly moldic and porous, and some fragments dense, slightly moldic.

465-495 Same and some dark brown, hard, dense dolomite.

495-525, 525-555 Same, no change to 675'.

675-705 Dolomite limestone, and moldic dolomite like that above, also fragments of a tan, coquinoidal limestone with much chalky, fragmental, fossil material; scattered small, qlauconitic areas. Some specimens of Dictyoconus americanus and Discorbis inornatus, and fragment of Lepidocyclina cedarkeysensis.

705-735 Finely cut fragments of dolomitic and chalky, coquinoidal limestone discribed from preceeding. Contains abundant but fragmental, chalky fossil material. Lepidocyclina cedarkeysensis fairly common. Some specimens of Amphistegina lopeztrigoi and fragments of D. americanus.

735-765 Cut of dolomite and hard limestone (probably mainly caveing).

765-795 Brown dolomite, medium crystalline, loosely consolidated. Some fragments of chalky, coquinoidal limestone as described from 675-705'.

795-825 Same

825-855 Dolomite like preceeding, but more consolidated. Some imbedded, chalky and fragmental fossil material. Fragment of cream limestone fossil material about 50% of sample.

855-885 Limestone, coquinoidal, cream, composed of molds of microfossils and rolled molds of fossil material. Specimens of Triloculina trigonula (a common Middle Eocene species) and many specimens of Discorbis inornatus. A trace of glauconite in this limestone. Some fragments of D. americanus.

885-915, 915-945 Same

945-975 Limestone, white, coquinoidal, irregular calcitic, fossil material, molds and fragmentary molds of micro-fossiliferous material. Specimens of Amphistegina lopeztrigoi, Clavulina floridana. Trace of glauconite in the limestone.

975-1005 Same

1005-1035 Several types of limestone and dolomite. (Probable caving in large part). Many fragments of light brown dolomite.

1035-1065 Abundant cavings as in preceeding, also many fragments of light brown, coarsely grained dolomite with many, irregular distributed pyritic areas.

1090-1120 Dolomite, tan, finely crystalline; and limestone, white and cream. Some specimens Amphistegina lopeztrigoi.

TOP OF OLDSMAR - LOWER EOCENE

1120-1150 Dolomite as above 50%; limestone, white chalky textured; fossiliferous, many specimens of Helicostegina gyralis.

1150-1180 Same and some specimens of Pseudophragmina cedarkeyensis.

1180-1210, 1210-1240, 1240-1270 Same

1300-1330 Dolomite, brown, finely crystalline, some partly dolomitized chalky areas. Some fragments, thinly flaky, brownish-gray, shale with soapy luster.

1330-1360 Limestone, cream, moderately hard, irregular porous, 50%; and dolomite, tan, dense, very finely crystalline. Some specimens of Coskinolina elongata.

1360-1370 Limestone, light cream, chalky textured, hard, platy, 75%; and dolomite, as above, 25%.

1370-1380 Limestone 50%, dolomite 50%.

1380-1390 Dolomite, tan, fine to medium crystaline; trace of limestone.

1390-1400 Same

1400-1410 Limestone, cream, moderately hard, platy; and dolomite, light tan, platy 25%.

1410-1420 Limestone, light tan, irregularly finely porous and moldic.

1420-1430 Limestone, as above, 50%; dolomite, light tan, platy, 50%.

1430-1440 Similar to preceeding. Limestone more porous and moldic.

1440-1450 Limestone buff, crypto-crystaline.

1450-1460, 1460-1470 Same

1470-1480 Limestone, light brown. A few moldic areas, vague traces of an original microfaunal content.

1480-1490 Limestone, as above, some dark brownish gray fragments of limestone similar in general character.

1490-1500 Dolomitic limestone, medium crystaline to crypto-crystaline, buff to olive gray.

1500-1510 Similar to preceeding, some fragments coarsely crystaline.

1510-1520 Same

1520-1530 Coarsely crystalline, light tan dolomite.

1530-1540 Dolomite as above (probable caving) also many fragments of a finely dolomitic, highly, finely porous, highly gray spotted limestone which is Cedar Keys in appearance. No supporting faunal evidence.

1540-1550 Same and cavings of limestone and dolomite and micro-fossils from several higher levels.

1550-1560 Dolomite, coarsely crystaline, light tan, 50%; and limestone, olive gray, irregular, finely porous and finely moldic, 50%.

1560-1570 Dolomite, as above 50% and light cream, fossiliferous limestone with some specimens of Cookinolina elongata (this limestone may be caving).

1570-1580 Same

1580-1590 Dolomite 50%, limestone chalky, porous and micro-fossiliferous. 50% (the latter may be caving).

1590-1600, 1600-1610, 1610-1620 Same

1620-1658 Chalk, white, soft, 50%; sand, fine to medium, 50%. (Sample probably not representative of material being drilled).

APPROXIMATE TOP CEDAR KEYS - PALEOCENE

1658-1688 Dolomite and chalk, as above, and chips of a cream, coquinoidal limestone, with many specimens of Borelis gunteri. Sample definitely Cedar Keys, Paleocene in age. See also description of sample 1530-1540'.

W-1007
(Driller's Log)

Permit #13

OWNER	:	Sun Oil Company
FARM NAME	:	No. 1 J. T. Goethe
LOCATION	:	1980' N, 660' E of SW corner of Sec. 31, T14S, R17E about 4 miles SE of Gulf Hammock
COUNTY	:	Levy
ELEVATION	:	28.8 ground 34' DF Schl. from Rileys 30'
STARTED	:	April 2, 1946
COMPLETED	:	June 8, 1946
DEPTH	:	3997'
CASING	:	40' of 16"; 1046' of 10-3/4" w/546 sks., 2478' of 7-5/8" w/175 sks.
CONTRACTOR	:	Penrod Drilling Co.
USE	:	Test for oil
YIELD	:	
REMARKS	:	Samples 182 from 45 to 2650', 280 from 2650 to 3985-1/2'. Analysis of water. Driller's log 0-3997' Schl. log 1050-3997'

0-30	Sand
30-595	Lime
595-619	Dolomite
619-656	Lime
656-1089	Dolomite
1089-1275	Lime
1275-1351	Shale
1353-1361	Dol. lime
1361-3190	Dolomite
1390-1403	Limestone
1403-1447	Dol. lime
1449-1480	Lime
1480-1658	Dolomite & chalk
1658-1766	Chalk & shale
1766-1803	Lime & chalk
1803-1900	Dolomite & chalk
1900-1968	Dol. lime
1968-2044	Chalk
2044-2123	Sand
2123-2442	Lime
2442-2516	Chalk
2516-2762	Lime & dolomite
2762-3058	Chalk
3058-3078	Marl
3078-3300	Chalk
3300-3539	Dolomite
3539-3575	Shale
3575-3595	Chalk
3595-3645	Shale
3645-3745	Sand
3745-3885	Shale
3885-3889-1/2	Sand
3889-1/2-3896	Shale
3896-3997	Quartzite sand

SUMMARY *

Pleistocene	0-25	Late middle Eocene
Miocene ? -Alachua	25-50	Lake City 1165-1800
Lower Miocene -Hawthorn	50-85	
Lower Miocene -Tampa	85-210	
Oligocene -Suwannee	210-450	
Upper Eocene		
Ocala	450-500	
Lower Jackson group		
Williston member	500-570	
Inglis member	570-615	
Upper Middle Eocene		
Avon Park	615-1165	

*Info. given M. Blount by Dr. Herman Gunter Sept. 19, 1951

(Driller's Log)

Lon 82 Deg 39 min 3.98 sec

at 29.22384519 Decimal
on 82.65110456 Degree

permit 13
W-1007

Permit #13

OWNER : Sun Oil Company
FARM NAME : No. 1 J. T. Goethe
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CONTRACTOR: Penrod Drilling Co.
USE : Test for oil
YIELD :
REMARKS : Samples 162 from 45 t0 2650', 280 from 2650 to 3985-1/2'. Analysis of water. Driller's log 0-3997' Schl. log 1050-3997'

0-30	Sand
30-595	Lime
595-619	Dolomite
619-656	Lime
656-1089	Dolomite
1089-1275	Lime
1275-1351	Shale
1353-1361	Dol. lime
1361-3190	Dolomite
1390-1403	Limestone
1403-1447	Dol. lime
1449-1480	Lime
1480-1658	Dolomite & chalk
1658-1766	Chalk & shale
1766-1803	Lime & chalk
1803-1900	Dolomite & chalk
1900-1968	Dol. lime
1968-2044	Chalk
2044-2123	Sand
2123-2442	Lime
2442-2516	Chalk
2516-2762	Lime & dolomite
2762-3058	Chalk
3058-3078	Marl
3078-3300	Chalk
3300-3539	Dolomite
3539-3575	Shale
3575-3595	Chalk
3595-3645	Shale
3645-3745	Sand
3745-3885	Shale
3885-3889-1/2	Sand
3889-1/2-3896	Shale
3896-3997	Quartzite sand

SUMMARY*

Pleistocene	0-25	Late middle Eocene
Miocene? -Alachua	25-50	Lake City 1165-1800
Lower Miocene -Hawthorn	50-85	
Lower Miocene -Tampa	85-210	
Oligocene -Suwannee	210-450	
Upper Eocene		
Ocala	450-500	
Lower Jackson group		
Williston member	500-570	
Inglis member	570-615	
Upper Middle Eocene		
Avon Park	615-1165	

*Info. given M. Blount by Dr. Herman Gunter Sept. 19, 1951

LEVY COUNTY, FLORIDA

Permt 13
W-1007

SUN OIL COMPANY
J. T. GOETHE #1
1980'N & 660'E SW/c Sec. 31-14S-17E
ELEV: 33.9'
BEGAN: 4-8-46
COMPLETED: 6-7-46
Csg. Record: 30' of 16", 1037.02' of 10 3/4", 2478.45' 7 5/8"
I.P. D & A
T.D. 3997'
SCHL.3997'

RECEIVED
JAN 24 1947
GEOLOGICAL SURVEY
TALLAHASSEE, FLORIDA

From P. K. Lansdell
Scout
Shell Oil Company
Tallahassee

DRILLER'S LOG

0-30	Sand
30-45	Lime
45-74	Dolomite lime
74-93	Med. soft lime w/stks dolomite
93-176	Lime
176-185	Dolomite lime
185-291	Med. soft brown lime
291-396	Med soft lime - some coquina & dolomite
396-498	Med soft lime
498-595	Broken lime w/dolomite streaks
595-619	Dolomite (broken)
619-656	Lime
656-712	Broken dolomite w/lime stks & black flinty rock
712-770	Dolomite w/stk flint & lignite
770-829	Dolomite
829-834	Very hd. dolomite
834-901	Dolomite lime, med soft
901-988	Dolomite w/stk chalky lime
988-1045	Dolomite
1045- 1089	Hard broken dolomite
1089-1148	Chalky lime
1148-1270	Soft mealy lime w/hd.lime stks and gypsum
1270-1275	Hard lime w/stks gray shale
1275-1307	Tough gray shale
1307-1351	Hard lime and shale
1353-1361	Hd. dolomite lime
1361-1364	Soft formation
1364-1366	Very hard dolomite or flint (broken)
1366-1390	Hard dolomite
1390-1403	Very hard flinty limestone
1403-1406	Broken dolomitic lime
1406-1447	" " "
1447-1449	Lost returns
1449-1459	Broken lime
1459-1480	Broken dolomite lime
1480-1525	Dolomite w/stk shale and chalk
1525-1581	Dolomite and chalk
1581-1613	Dolomite w/chalk and stks of shale
1613-1658	Dolomite-chalk and shale stks
1658-1766	Chalk and shale
1766-1803	Hd chalky lime and chalk
1803-1847	Dolomite and chalk
1847-1888	Dolomite and chalk
1888-1900	Dolomite and chalky shale (hard)
1900-1968	Dolomite lime and shale (med. hard)
1968-2044	Chalk, some dolomite
2044-2114	Dolomite & lime
2114-2123	Brown soft sand
2123-2125	Lime
2125-2185	Dolomitic lime w/stks of gypsum
2185-2278	Chalky lime
2278-2391	Lime
2391-2442	Lime w/dolomite stks (hard)

SUN OIL COMPANY - J.T. GOETHE #1 - SEC. 31-14S-17E-Levy County, Fla.

DRILLER'S LOG CONT'D

2442-2516	Chalk w/stk marl & shale
2516-2572	Lime & dolomite
2572-2614	Dolomite lime w/stks of hard dolomite
2614-2662	Lime and dolomite
2662-2669	Lime and dolomite & gypsum
2669-2671	Hard dolomite lime
2671-2762	Soft dolomitic lime and gmy lime
2762-2801	Chalk
2801-2890	Chalk
2890-2950	Chalky lime
2950-3042	Chalk and lime
3042-3058	Chalk
3058-3078	Gray marl
3078-3104	Chalk
3104-3172	Chalky lime
3172-3238	Chalk and lime
3238-3295	Chalk w/stk dolomite
3295-3300	Chalk
3300-3330	Dolomite
3330-3354	Hard Dolomite
3354-3391	Dolomite - hard flinty
3391-3424	
3424-3458	Hard dolomite
3458-3493	Hard gray dolomite
3493-3526	Dolomite
3526-3539	Dolomite
3539-3575	Marl shale
3575-3595	Chalk w/stks marl & shale
3595-3618	Hard shale
3618-3645	Hard shale stks & chalk & marl
3645-3657	Hard sand
3657-3663	Very soft sand
3663-3673	Broken sand
3673-3720	Soft sand w/hd stks of sand & shaley sand
3720-3745	Hard sandy shale
3745-3760	Sandy shale
3760-3770	Hard sandy shale
3770-3790	Hd shaley (very fine) sand
3790-3800	Sdy shale
3800-3816	Hard sandy shale
3816-3830	Hard shale w/ gmy stks
3830-3850	Very hard tight shale w/stks pyrites-silty
3850-3860	Hard shale
3860-3869	3860-62 blk shale & 3862-64½ hard sand
3869-3875	Gummy black shale
3875-3885	Drilled w/core bit & dummy, black shale
3885-3889½	Sand
3889½-3896	Black shale w/gmy stks.
3896-3899	Quartsite sand
3899-3901	Quartsite sand
3901-3903	Quartsite sand
3903-3906	Quartsite sand
3906-3909	Quartsite broken w/stks of yellow sd & lime
3909-3912	Quartsite sand
3912-3913½	" "
3913½-3920	" "
3920-25	Qtz. sand, granite wash.
3925-3928	Quartsite sand
3928-3932	Quartzite sand
3932-3936	Qtz. sand (3932-33½ - V. hd sd qtz.)
3936-3937	" " (3933½-34½ - hd. qtzite sd or gran)
3934½-3940	Qtz. sand and granite wash
3940-3941	Qtz. sand
3941-45½	Med. hard sand
3945½-3950	Qtz. sand

SUN OIL COMPANY - J.T.GOETHE #1 - SEC.31-14S-17E-LEVY COUNTY, FLA.

DRILLER'S LOG CONT'D

3950-3955	Qtz. sand
3955-3964	Hard sand
3964-3965½	Quartsite sand
3965½-3968	Qtz. sand
3968-3972½	Quartz. or granate
3972½-3978	Quartzite
3978-3985½	Hard sand & stks shale & mica.
3985-3989½	Hard quartsite sand
3989½-3996	Quartzite sandy shale
3996-3997	Quartzite

SUN OIL COMPANY -J.T.GOETHE #1 -SEC.31-14S-17E-LEVY COUNTY, FLA.

TOTCO RECORD

	DEG.		DEG.
54	1	2155	1 1/2
100	1/2	2215	1 1/8
150	1/2	2275	1 1/2
210	0	2335	1
260	1/2	2395	7/8
310	1/2	2460	1 1/4
400	1/4	2550	7/8
450	1/4	2610	0
515	1/4	2785	1/2
560	3/4	2850	1
650	3/4	2910	1/4
690	3/4	2975	1/4
750	1/4	3035	1/2
816	1/8	3095	1/2
875	1/16	3157	1/2
940	1/8	3218	1/2
1025	1	3278	1/16
1150	1/8	3368	1/8
1200	1	3460	0
1300	1 1/8	3555	3/4
1350	1 1/8	3555	0
1420	7/8	3645	3/4
1480	1	3700	1/4
1545	1		
1605	1	3825	1 1/2
1725	1 1/8		
1790	7/8		
1875	3/4		
1970	1		
2060	1		

SUN OIL COMPANY -J.T.GOETHE #1 -SEC.31-14S-17E-LEVY COUNTY, FLA.

BIT RECORD

Bit No.	Size	Make Type	Serial No.	Drilled	Cored	Reamed	Hrs.Run
1	12½"	Hughes OSC	3455	74(0-74)			6
2	22"	Reed 3 way Drag				45(0-45)	7 1/2
3	15"	Hughes OSC-2	2332	977(74-1051)		29(45-74)	91
4	9"	Reed 2 HM	4776	38(1051-1089)			2 1/2
5	9"	Reed 2 HM	4784	313(1089-1364)			27 1/2
6	9"	Reed T	5705	26(1364-90)			6
7	9"	Reed 2 HM	4779	191(1390-1581)			26 1/2
8	9"	Reed 2 HM	4900	266(1581-1847)			32 1/2
9	9"	Reed 2 C	7800	247(1847-2125)			27 1/2
10	6 3/4"	Hughes H.F. core head	13046		17(2125-42)		1/2
9	9"	Reed 2 C	7800	469(2142-2611)		17(2125-42)	38(65½)
11	9"	Reed 2 C	7915	51(2611-62)			8
12	9 7/8"	Reed 2 C	6185			1474(1051-2525)	22 1/2
13	9"	Reed PD-1	5990		139(2662-2801)		10(11 3/4)*
14	6 3/4"	" T	981	529(2801-3330)			52 1/2
15	6 3/4"	" 2 HM	9481	245(3330-3575)			49 1/4
16	6"	PAA-2	7542(7569)*		92(3575-3663)		17
14	6 3/4"	Reed T	981			75(3575-3650)	4(56 1/2)
16	6"	Reed PAA-2	7569*		97(3663-3760)		14 1/2(31)
15	6 3/4"	" 2 HM	9481			110(3650-3760)	6(55½)
17	6"	Reed PAA-2	7543(7513)*		40(3760-3800)		13 1/2
18	6"	Reed PAA-2	7544*		60(3800-3860)		23
14	6 3/4"	" T	981			100(3760-3860)	6(62½)
19	6"	Reed PAA-2	7546(7516)*		15(3860-3875)		8 1/2
20	6"	Reed PAA-a	7541(7341)*		24(3875-3899)		11 3/4
21	6 3/4"	" T	305	2(3899-3901)		79(3820-3899)	6
22	6 3/4"	" 2 C	3682	2(3901-3903)		7(3894-3901)	3 1/2
23	6 3/4"	" 2 C	3246	3(3903-3906)			7
24	6"	" PAA-2	7547*		3(3906-3909)		2
25	6 3/4"	" 2 HM	6340	4(3909-13)		5(3904-09)	5
26	6 3/4"	" T	943	½(3913-13½)		4(3909-13)	3
27	6 3/4"	" T	988	6½(3913½-20)			4

SUN OIL COMPANY -J.T.GOETHE #1 -SEC:31-14S-17E-LEVY COUNTY, FLA.

BIT RECORD CONT'D

Bit No.	Size	Make Type	Serial No.	Drilled	Cored	Reamed	Hrs. Run
28	6 3/4"	Reed T	985	5(3920-25)		6(3915-20)	4 1/2
29	6 3/4"	" 2 C	9045	3(3925-28)		4(3921-25)	4
30	6 3/4"	" 2 C	8944	4(3928-32)		10(3918-28)	4 1/4
31	6 3/4"	" 2 C	9160	4(3932-36)		3(3929-32)	6 1/4
32	6"	Reed PAA-2*	7545		1(3936-37)		1 3/4
33	6 3/4"	" 2 C	8987	1½(3932-33½)			3 1/2
34	6 3/4"	" 2 C	9047	1(3933½-34½)			5 1/4
35	6 3/4"	" 2 C	8986	5½(3934½-40)		2(3932½-34½)	5 1/2
36	6 3/4"	" 2 C	8838	5½(3940-45½)			4 3/4
37	6 3/4"	" 2 C	8985	4½(3945½-50)			5
38	6 3/4"	" 2 C	8959	5(3950-55)			6 1/4
39	6 3/4"	Hughes W7R	60198	10½(3955-65½)			7 1/4
40	6 3/4"	" "	60259	0(3965½- Dropped bit 65' w/33 joints.		30(3869-99)	1/2
41	6 3/4"	" "	60386	2½(3965½-68)		60(3905-65)	5
42	6 3/4"	" "	60212	4½(3968-72½)		50(3918-68)	6 3/4
43	6 3/4"	" "	60902	5½(3972½-78)			3 1/2
44	6"	Reed PAA-2*	7540		7½(3978-3985½)		4 1/4
45	6 3/4"	Hughes W7R	60383	4(3985½-89½)		67½(3918-85½)	5 1/4
46	6 3/4"	" "	61314	7½(3989½-97)		34½(3964-98½)	8 1/4

* These are PAA-2 type bits, not PAA-1. Number in parenthesis is number carried by driller on bit record at well.

** This bit used on Adams #1 1 3/4 hrs.

OIL COMPANY - J.T.GOETHE #1 - SEC.31-14S-17E-LEVY COUNTY, FLA.

TIME LOG

	MIN.		MIN.		MIN.
75-80	19	400-405	11	725-730	24
85	21	10	19	35	54
90	12	15	15	40	47
95	45	20	15	45	78
100	21	25	14	50	75
05	7	30	13	55	28
10	9	35	32	60	28
15	9	40	27	65	52
20	10	45	18	70	15
25	9	50	38	75	12
30	22	55	13	80	17
35	18	60	6	85	23
40	12	65	19	90	121
45	18	70	15	95	85
50	66	75	45	800	26
55	12	80	10	05	11
60	33	85	27	10	37
65	41	90	15	15	24
70	48	95	20	20	46
75	30	500	15	25	50
80	83	05	12	30	79
85	70	10	21	35	97
90	13	15	35	40	43
95	6	20	24	45	18
200	13	25	21	50	15
05	12	30	6	55	11
10	11	35	12	60	20
15	7	40	16	65	18
20	8	45	17	70	13
25	12	50	18	75	14
30	11	55	16	80	11
35	13	60	11	85	8½
40	21	65	17	90	24
45	12	70	8	95	6
50	12	75	9	900	16
55	5	80	7	05	25
60	8	85	10	10	7
65	7	90	29	15	5
70	10	95	33	20	14
75	9	600	38	25	8
80	11	05	60	30	14
85	14	10	175	35	19
90	14	15	65	40	20
95	15	20	48	45	122
300	8	25	56	50	10
05	10	30	36	55	17
10	10	35	65	60	19
15	13	40	82	65	36
20	13	45	34	70	18
25	15	50	20	75	18
30	43	55	47	80	31
35	53	60	71	85	26
40	14	65	84	90	31
45	35	70	45	95	15
50	23	75	15	1000	14
55	16	80	24	05	14
60	11	85	75	10	16
65	11	90	33	15	14
70	5	95	10	20	54
75	7	700	19	25	24
80	12	05	16	30	31
85	11	10	20	35	58
90	12	15	12	40	43
95	15	20	12	45	149
400	64	25	19	50	78

SUN OIL COMPANY - J.T.GOETHE #1 -SEC.31-14S-17E-LEVY COUNTY, FLA.

TIME LOG CONT'D

	MIN.		MIN.		MIN.
1050-1055	48	1375-1380	45	1700-1705	14
60	9	85	52	10	9
65	9	90	52	15	14
70	20	95	103	20	11
75	39	1400	80	25	9
80	14	05	70	30	5
85	8	10	51	35	40
90	33	15	14	40	17
95	39	20	43	45	10
1100	39	25	29	50	48
05	23	30	8	55	36
10	14	35	10	60	33
15	20	40	20	65	38
20	8	45	63	70	53
25	8	50	23	75	70
30	18	55	38	80	31
35	18	60	39	85	45
40	20	65	51	90	79
45	27	70	35	95	101
50	29	75	46	1800	33
55	26	80	34	05	42
60	38	85	66	10	27
65	12	90	100	15	55
70	32	95	42	20	62
75	9	1500	54	25	18
80	11	05	38	30	24
85	9	10	28	35	62
90	7	15	49	40	64
95	8	20	14	45	56
1200	6	25	36	50	67
05	15	30	71	55	27
10	8	35	39	60	49
15	7	40	28	65	51
20	7	45	15	70	22
25	7	50	17	75	64
30	10	55	38	80	73
35	4½	60	46	85	50
40	2½	65	36	90	54
45	3	70	32	95	74
50	5	75	34	1900	39
55	3	80	30	05	24
60	34	85	42	10	23
65	65	90	33	15	15
70	35	95	90	20	25
75	42	1600	83	25	16
80	92	05	26	30	14
85	78	10	47	35	14
90	94	15	78	40	26
95	60	20	20	45	20
1300	41	25	132	50	21
05	14	30	41	55	23
10	26	35	8	60	15
15	30	40	54	65	21
20	42	45	17	70	51
25	62	50	19	75	39
30	79	55	21	80	43
35	47	60	16	85	13
40	48	65	23	90	15
45	29	70	16	95	26
50	24	75	18	2000	15
55	92	80	18	05	36
60	110	85	10	10	39
65	35	90	9	15	30
70	123	95	7	20	39
75	107	1700	11	25	28

OIL COMPANY - J.T.GOETHE #1 - SEC.31-14S-17E-LEVY COUNTY, FLA.

TIME LOG CONT'D

	MIN.		MIN.		MIN.
2025-2030	39	2350-2355	11	2675-2680	18
35	28	60	15	85	18
40	11	65	15	90	20
45	22	70	9	95	16
50	32	75	9	2700	18
55	11	80	15	05	12
60	22	85	10	10	18
65	23	90	13	15	19
70	37	95	38	20	14
75	25	2400	38	25	8
80	54	05	31	30	7
85	49	10	37	35	18
90	25	15	27	40	17
95	19	20	20	45	22
2100	24	25	56	50	13
05	14	30	65	55	17
10	11	35	48	60	22
15	15	40	41	65	18
20	9	45	100	70	23
25	9	50	41	75	18
30	13	55	26	80	15
35	9	60	15	85	15
40	6	65	13	90	18
45	9	70	10	95	17
50	9	75	16	2800	26
55	19	80	15	05	19
60	10	85	13	10	17
65	8	90	17	15	19
70	23	95	22	20	17
75	20	2500	18	25	24
80	12	05	22	30	22
85	11	10	20	35	20
90	32	15	38	40	22
95	11	20	13	45	23
2200	13	25	20	50	15
05	14	30	26	55	15
10	13	35	64	60	19
15	28	40	46	65	20
20	21	45	45	70	23
25	25	50	32	75	21
30	25	55	44	80	21
35	23	60	70	85	24
40	26	65	44	90	20
45	16	70	9	95	23
50	15	75	64	2900	34
55	23	80	19	05	30
60	20	85	15	10	25
65	25	90	14	15	32
70	17	95	16	20	72
75	10	2600	12	25	27
80	19	05	9	30	27
85	33	10	33	35	25
90	38	15	106	40	40
95	12	20	45	45	42
2300	12	25	16	50	29
05	14	30	17	55	24
10	16	35	21	60	40
15	18	40	30	65	29
20	20	45	23	70	26
25	21	50	38	75	28
30	26	55	113	80	28
35	20	60	109	85	27
40	15	65	45	90	25
45	15	70	129	95	17
50	15	75	32	3000	25

OIL COMPANY -J.T.GOETHE #1 -SEC.31-14S-17E-LEVY COUNTY, FLA.

TIME LOG CONT'D

	MIN.		MIN.		MIN.
3000-3005	18	3350-3355	63	3695-3700	11
10	14	60	55	05	8
15	21	65	40	10	15
20	14	70	53	15	24
25	13	75	53	20	13
30	14	80	68	25	79
35	12	85	64	30	60
40	19	90	82	35	54
45	17	95	68	40	66
50	22	3400	71	45	112
55	25	05	72	50	93
60	31	10	60	55	90
65	54	15	61	60	108
70	62	20	64	65	126
75	34	25	72	70	81
80	28	30	57	75	104
85	37	35	61	80	106
90	28	40	67	85	72
95	18	45	67	90	90
3100	19	50	63	95	106
05	17	55	55	3800	132
10	18	60	58	05	128
15	24	65	49	10	106
20	24	70	58	15	102
25	26	75	58	20	122
30	25	80	66	25	113
35	22	85	66	30	141
40	17	90	76	35	125
45	33	95	61	40	102
50	43	3500	80	45	88
55	40	05	82	50	68
60	30	10	85	55	109
65	48	15	68	60	147
70	43	20	60	65	113
73	33	25	48	70	180
80	27	30	61	75	216
85	19	35	61	80	160
90	31	40	64	85	203
95	33	45	42	90	44
3200	30	50	31	95	135
05	44	55	33	3900	207
10	42	60	31	05	439
15	32	65	31	10	272
20	17	70	44	15	392
25	22	75	35	20	190
30	23	80	42	25	225
35	29	85	36	30	289
40	28	90	40	35	341
45	25	95	37	35-37	162
50	29	3600	44	32-35	525
55	42	05	82	40	273
60	36	10	65	45	135
65	27	15	74	50	449
70	26	20	62	55	375
75	94	25	52	60	115
80	36	30	56	65	202
85	40	35	47	70	513
90	42	40	82	75	304
95	28	45	44	80	156
3300	30	50	65	85	172
05	50	55	149	90	366
10	49	60	39	95	174
15	50	65	9	97	157
20	53	70	68		
25	64	75	11		
30	68	80	15		
35	60	85	12		
40	75	90	6		
45	75	95	11		
50	77				

SUN OIL COMPANY - J.T. GOETHE #1 - SEC.31-14S-17E-LEVY COUNTY, FLA.

CORE RECORD

Core No.	Depth	Rec.	
1	2125-2142	7½'	Top 18": Creamy tan hd porous fslif gyps f. ls. 2nd 12": Gray hd porous gypsf fslif dol ls w/pieces of above ls throughout. 3rd 12": Tan f xline gypsf dol ls w/thin bands of lignitic material. Bot 48": Cream colored very gypsf.fslif ls w/fsl molds filled w/gyp.V.abundant fauna of Macro fossils.The skeleton of nearly every fossil is replaced w/gyp.
2	2662-2669	3½'	Top: Wh fslif gypsf chalky ls. Mid: " " " " " Bot: Brown hd gypsf f. xline dol.
3	2719-2729	6"	Wh. fslif chalky ls.
4	2780-2790	12"	Same
5	3575-3580	5'	Top: Gray dolomite & Wh fslif dol.chalk. Mid: Wh fslif dol chalk w/lignite stk. Bot: Wh fslif dol chalk.
6	3580-3585	5'	Top, Mid & Bot: Same
7	3585-3590	5'	Top, Mid & Bot: Same
8	3590-3595	5'	Top: Same Mid: Same w/lignite stks Bot: Gray hard v. dol. chalk
9	3595-3600	5'	Top 2':Gray wh fslif dol chalk Mid:2':Some chalk w/stks gray green speckled shale Bot:1':Wh fslif dol chalk
10	3600-3605	5'	Top, Mid & Bot: Gray hd speckled shale
11	3605-3610	1'	Soft gray speckled shale
12	3610-3615	5'	Top, Mid & Bot: Dk gray hd speckled shale
13	3615-3620	5'	Top, Mid & Bot: Same
14	3620-3625	5'	Top: Dk gray hd fslif speckled shale w/ dol chalk stks. Bot: Same
15	3625-3630	4'	Top 18": Same Mid 24": Gray wh fslif dol chalk w/shale stks Bot:6": Dk gray fslif shale
16	3630-3635	3'	Top: Gray fslif V.Dol. chalk Bot: Same w/stks gray speckled shale
17	3635-3640	5'	Top, Mid & Bot: Same
18	3640-3645	4'	Top & Bot: Same
19	3645-3650	5'	Top 1': Gray hd dol chalky shale Mid:2': Gray hd chalky f. sandy shale Bot 2': Hd Gray green calc well indurated mdd coarse sand (tight).
20	3650-3654	2'	Same w/large fsls.

UN OIL COMPANY - J.T.GOETHE #1 - SEC.31-14S-17E-LEVY COUNTY, FLA.

CORE RECORD CONT'D

Core No.	DEPTH	Rec.	
21	3653-3655	2'	Gray green well indurated fslif glauc med coarse grained sand.(porous)
22	3655-3660	2'	Black to gray hd indurated fslif med coarse qtz sd w/stks & pockets of clear f. grained loose qtz sd. Large rounded grains smoky qtz.
23	3660-3663	0'	Small sample stuck on bit was soft gray f. grained qtz. sd.
24	3663-3665	0'	
25	3665-3670	10"	Gray green hd indurated fslif med coarse qtz sd.
26	3670-3675	8"	Gray hd. fslif. glauc shaly f. gr. tight qtz. sd.
27	3675-3680	4"	Same
28	3680-3685	12"	Dk green indurated glauc med coarse qtz sand (permeable)
29	3685-3690	½"	Gray glauc.loosely indurated f.gr.qtz.sd.
30	3690-3695	8"	Gray glauc qtz sd varying in stks of indurated med coarse grains & loosely consolidated f. gr sd.
31	3695-3700	2½'	Gray glauc. loosely indurated f. gr. qtz. sand
32	3700-3705	½"	Gray hd glauc sd.
33	3705-3710	0'	
34	3710-3715	2'	Top: Gray indurated glauc.shaly f.gr. qtz. sd. Bot: Gray glauc, loosely consolidated f. gr. sd.
35	3715-3720	2'	Gray glauc shaly f.gr. sd. varying from hd indurated to soft loosely consolidated. Uniform size sd.
36	3720-3725	4'	Gray glauc shaley f gr sd well indurated but permeable.
37	3725-3730	5'	Same but harder & less permeable.
38	3730-3735	5'	Gray indurated glauc shaley fslif f gr s
39	3735-3740	5'	Same
40	3740-3745	4½'	Top: Same Mid: Same, w/soft stks sand. Bot: Same
41	3745-3750	5'	Top, Mid & Bot: Same w/stks soft sand in middle
42	3750-3755	4½'	Same
43	3755-3760	3½'	Same
44	3760-3765	3½'	Dk gray glauc indurated fslif shaley f. gr. qtz sand (low permeability)

SUN OIL COMPANY - J.T.GOETHE #1 - SEC.31-14S-17E-LEVY COUNTY, FLA.

CORE RECORD CONT'D

Core No.	Depth	Rec.	
45	3765-3770	10"	Same
46	3770-3775	4'	Same
47	3775-3780	5'	Top 4': Same Bot:1': Lt gray green hd v fslif f. aren shale
48	3780-3785	5'	Stks lt gray green hd fslif f. aren shale and dk green hd shaley slightly coarser qtz sd.
49	3785-3790	4'	Same
50	3790-3795	4½'	Stks lt gray green hd fslif f. aren shale & dk green hd shaley slightly coarser qtz sd.
51	3795-3800	4'	Same w/pyrite (green)
52	3800-3805	4'	Top: Same, predominantly lt gray green hd shale Bot: Same, predominantly dk green hd shaley sd.
53	3805-3810	5'	Top 1': Same 2nd 1': Banded dk green & gray shale w/gray sand lenses. Bot:3': Like top foot.
54	3810-3815	1'	same
55	3815-3820	5'	Top 2': Alternating sd and banded shale stks w/pyrites 2nd 1': Greenish gray soft gummy slightly aren. shale Bot 2': Alternating greenish gray gummy shale & gray green hd sdy shale
56	3820-3825	3'	Top 2': Dk gray banded shale & light green gray shale w/stks gummy sh Bot: 1': Greenish gray gummy shale.
57	3825-3830	3'	Top 1': Same, lt greenish gray shale & dk gray banded shale Bot 2': Greenish gray gummy shale & lt greenish gray aren. shale
58	3830-3835	5'	Gray hd aren fslif shale w/stks gray tan hd aren fslif shale.
59	3835-3840	3'	Greenish gray hd indurated shaley sd.
60	3840-3845	2'	Laminated green & gray hd aren shale.
61	3845-3850	5'	Top 1': Same 2nd 2': Lt greenish gray hd f. aren.shale Bot:1': Dk gray hd brittle f. aren.shale
62	3850-3855	5'	Dk gray black fissile silty med hd waxy f. mica fslif shale.
63	3855-3860	3'	Same

SUN OIL COMPANY -J.T.GOETHE #1 -SEC.31-14S-17E-LEVY COUNTY, FLA.

CORE RECORD CONT'D

Core No.	Depth	Rec.	
64	3860-3865	4½'	Top 1½': Black & gray laminated shale w/thin laminae of qtz sd. Bot 3': Gray indurated chloritic or ? glauc. coarse to med.f. qtz.sd.
65	3865-3870	3'	Top & Bot: Black slightly mica waxy silty shale (gummy).
66	3870-3875	2'	Top 1': Gray black laminated (banded) f. mica fissile shale. Bot:1': Black gummy waxy silty shale
67	3874-3876	18"	Gray laminated f. mica fissle shale (bentonitic)
68	3876-3881	5'	Same
69	3885-3888	3'	Gray fairly well consolidated bentonitic med f. qtz sand.
70	3888-3893	5'	Top 2': Same 2nd 1': Gray fissile shale Bot 2': Gray gummy silty f. mica aren sh.
71	3893-3898	3'	Top 1': Gray crossbedded waxy silty sh. w/sand laminae. Mid 1': Wh. hd indurated qtzite. Bot 1': Grayish wh. soft consolidated sd. w/inclusions of gray clay. Bot piece: 1" wh hd qtzite.
72	3898-3899	2"	Wh hd qtzite
73	3906-3908	6"	Wh qtzite & gray argil qtzitic sd.almost an aren clay w/rounded, frosted, med. coarse to fine grained qtz sand.
74	3908-3909	3"	Same
75	3936-3936½	3"	Wh & brown hd dense f. gr. qtzite w/ varicolored med hd aren clay.
76	3936½-3937	1"	Iron red f. gr. qtzite.
77	3978-3980	2'	Gray qtzitic sandstone & gray mica qtzitic shale w/sh sand inclus.(worm borings)
78	3980-3982	2'	Same
79	3982-3984	2'	Same
80	3984-3985½	1'	Same

PERCENTAGE CORE RECOVERY

Core Cut 376.5'

Core Recovered 242.17'

Percentage Recovery 64.2'

permit 13
W-1007

SCHLUMBERGER
WELL SURVEYING CORPORATION

COMPOSITE LOG

Location of Well

SWc 31-14S-17E.

13

Elevation: D.F.: _____
or G.L.: _____

COMPANY: SUN OIL COMPANY
WELL: J. T. GOETHE #1
RUN NO.: 1, 2, & 3
FIELD: WILDCAT
SURVEY: 31-14S-17E
COUNTY: LEVY
STATE: FLORIDA
FILING No. _____

COUNTY: LEVY
FIELD OR SURVEY: WILDCAT
WELL: J. T. GOETHE #1
COMPANY: SUN OIL COMPANY
C-12318

RUN	1	2	3		
Date	5-6-46	5-31-46	6-7-46		
First Reading	2621	3933	3997		
Last Reading	1050	2621	3933		
Footage Measured	571	1312	64		
Cag Shoe Schlum.	1050	2478	2478		
Cag Shoe Drilled	1046	2473	2473		
Max. Depth Reached	2621**	3933	3997		
Bottom Driller	2662	3937	3997		
Depth Datum	DEPTHS FROM 11 ABOVE ROTARY.				
Mud Nature	SULPH. H2O*	NATURAL	AQUAGEL		
" Resistivity	1.5 @ 88°	1.2 @ 78°	1.7 @ 84°		
" Weight	---	9.3	9.4		
" Viscosity	---	36	35		
Hole Size	9"	6 3/4"	6 3/4"		
Bottom Temp.	---	---	---		
Spacings					
AM	16"	16"	16"		
AM'	63"	63"	63"		
OA	24'	24'	24'		
Observers	CORRAL REYNOLDS	PAUZA	CORRAL REYNOLDS		

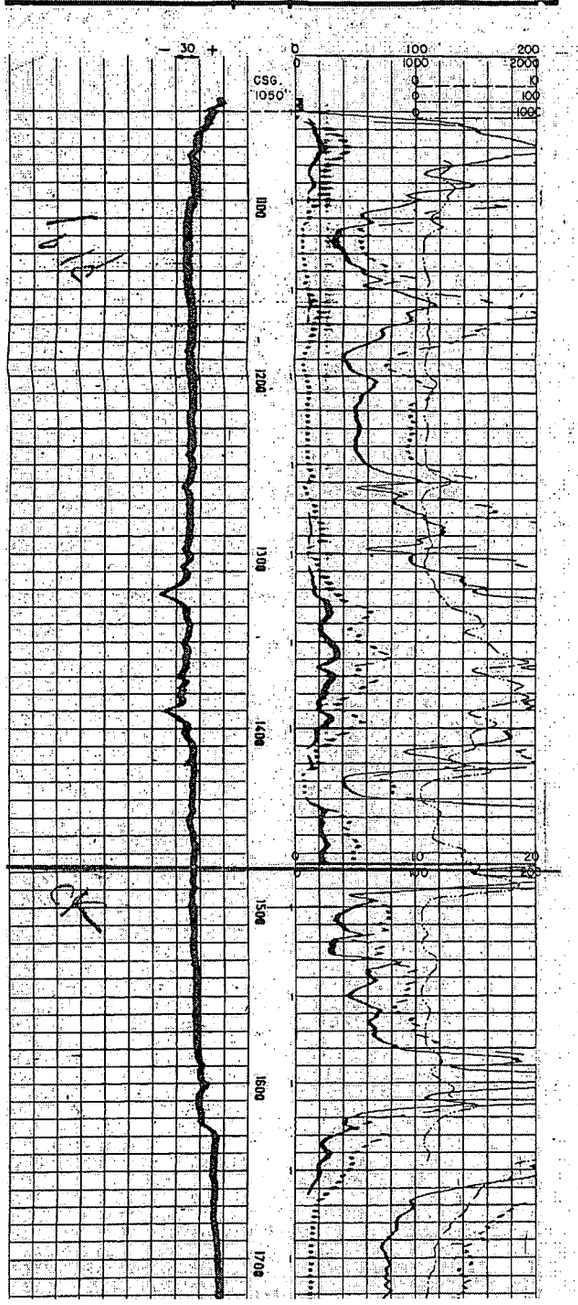
REMARKS

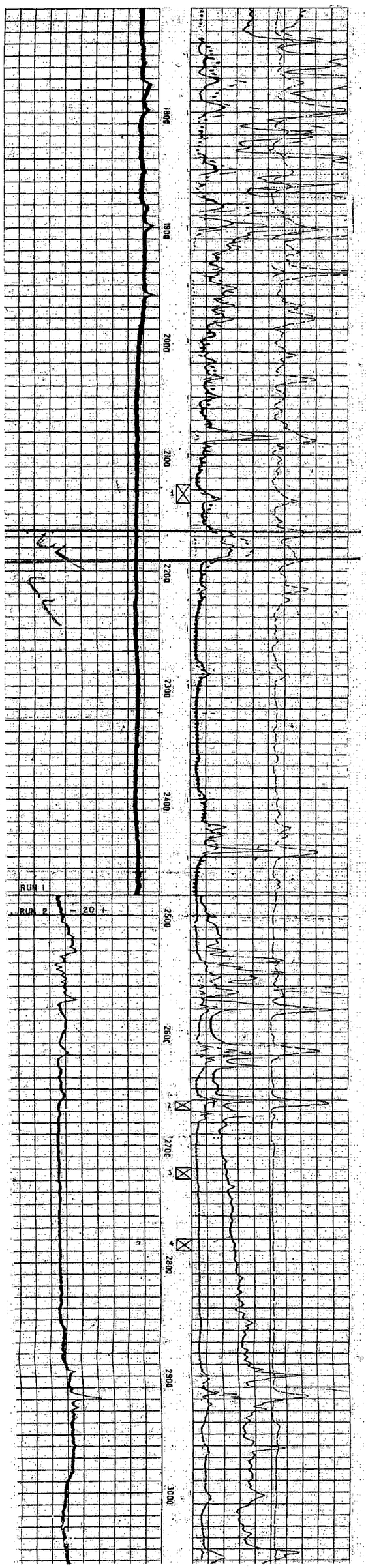
PLEASE NOTE:
CORES AS SHOWN ON LOGS ONLY TO INDICATE AMOUNT OF CORE CUT AND AMOUNT RECOVERED. ALL INFORMATION SHOWN ON THIS LOG IN REFERENCE TO CORES, PERFORATIONS, DRILL STEM TESTS FURNISHED BY SUN OIL COMPANY.

API# 09075100010000

* Sulphur water flow out of well from depth estimated between casing and 1363'.

** Drill collar in bottom of hole.




1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
RUN 1
RUN 2
- 20 +

OWNER : USED (CB 22, Rt. 13B)
LOCATION : On Rt. 13B align. 152.50 miles from Atlantic entrance, Sta. 8052+00 Sec. 2, T17S, R19E
COUNTY : Marion
ELEVATION : 64.4'
STARTED : June 1, 1933
COMPLETED : June 2, 1933
DEPTH : 72.6'
HEAD : 56.5'
YIELD :
DRILLER : USED
REMARKS : 23 samples beginning with the surface and continuing to 72.6' total depth brought in by Dr. R. O. Vernon during April and May 1946.

Waterway from Cumberland Sound, Ga. and Florida to the Mississippi River
US Engineer Office - Jacksonville, Fla.

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recover
0.0-4.0	Fine, gray sand, wash sample	4.0	64.4		
4.0-5.0	Fine, tan sand, little clay, wash sample	1.0	60.4		
5.0-9.3	Fine, gray sand and clay, wash sample	4.3	59.4		
9.3-16.5	Stiff, gray clay, wash sample	7.2	55.1		
16.5-19.4	Soft, white limestone (Ocala), dry core	2.9	47.9	2	100
19.4-22.3	Soft, white limestone (Ocala), dry core	2.9	45.0	2	100
22.3-24.3	Soft, white limestone with medium-hard layers (Ocala), dry core	2.0	42.1	2	95
24.3-30.1	Soft, white limestone with medium-hard layers (Ocala), dry core	5.8	40.1	4	85
30.1-34.7	Soft, cream limestone (Ocala), dry core	4.6	34.3	3	30
34.7-37.0	Medium-hard, white limestone (Ocala), dry core	2.3	29.7	4	100
37.0-37.9	Soft, white limestone (Ocala), dry core	0.9	27.4	1	95
37.9-38.8	Hard, white limestone (Ocala), dry core	0.9	26.5	2	100
38.8-42.5	Soft, white limestone (Ocala), dry core	3.7	25.6	3	95
42.5-44.8	Medium-hard, white limestone (Ocala), dry core	2.3	21.9	3	100
44.8-52.9	Soft, white limestone, (Ocala), dry core	8.1	19.6	4	15
52.9-54.2	Soft, white limestone (Ocala), dry core	1.3	11.5	1	100
54.2-56.0	Soft, cream and gray limestone (Ocala) dry core	1.8	10.2	1	100
56.0-57.9	Medium-hard, gray and cream limestone (Ocala), dry core	1.9	8.4	2	100
57.9-62.7	Soft cream and gray limestone with .6' medium hard layer (Ocala), dry core	4.8	6.5	3	100

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recovery
62.7-66.8	Medium-hard, gray limestone (Ocala), dry core	4.1	1.7	8	100
66.8-68.1	Hard, gray limestone (Ocala), dry core	1.3	-2.4	3	100
68.1-70.9	Soft, gray limestone (Ocala), dry core	2.8	-3.7	2	30
70.9-72.6	Soft, decayed, gray limestone (Ocala), dry core	1.7	-6.5	2	70

NOTE: No water used while coring; drill run at low speed and pressure. Time gives little indication of hardness.

Summary:

Overburden	16.5'		
Ocala limestone	47.9'		
Ocala above project depth (+5' MSL) is :		83%	soft
		15%	medium-hard
		2%	hard

Reference: Sheet 4, Plate IX, Appendix B, Report 12-30-33.

OWNER: USED (CB 21, Rt. 13B)
LOCATION: On Rt. 13B, Sta. 8104+00, 153.48 miles from Atlantic entrance, Sec. 3 T17S, R19E
COUNTY: Marion
ELEVATION: 63.2'
STARTED: May 31, 1933
COMPLETED: June 1, 1933
DEPTH: 72'
DRILLER: U S E D
HEAD: 57.1'
REMARKS: 18 samples beginning with the surface and continuing to 72' total depth brought in by DR. R. O. Vernon during April and May, 1946.

Waterway from Cumberland Sound, Ga. and Fla., to the Mississippi River
US Engineer Office - Jacksonville, Fla.

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recovery
0.0-2.4	Fine, dark gray sand, wash sample	2.4	63.2		
2.4-6.0	Fine, gray sand, wash sample	3.6	60.8		
6.0-12.2	Fine, light gray sand, little clay, wash sample	6.2	57.2		
12.2-21.0	Soft, white limestone with thin, medium hard layers (Ocala), dry core	8.8	51.0	9	75
21.0-24.0	Soft, white limestone with medium hard layers (Ocala), dry core	3.0	42.2	5	100
24.0-28.2	Soft, white limestone (Ocala), dry core	4.2	39.2	6	55
28.2-31.5	Medium-hard, white limestone (Ocala), dry core	3.3	35.0	5	75
31.5-34.7	Medium-hard, white limestone with .4' soft layer on bottom (Ocala), dry core	3.2	31.7	6	85
34.7-39.0	Soft, white limestone with thin, layers medium-hard (Ocala), dry core	4.3	28.5	6	55
39.0-46.6	Soft, white limestone with thin, medium-hard layers (Ocala), dry core	7.6	24.2	9	100
46.6-50.0	Medium-hard, white limestone with soft layers (Ocala), dry core	3.4	16.6	5	70
50.0-53.2	Soft, white limestone (Ocala), dry core	3.2	13.2	3	100
53.2-56.1	Soft, white limestone with thin, medium-hard layers (Ocala), dry core	2.9	10.0	3	90
56.1-58.4	Soft, white limestone with thin, medium-hard layers (Ocala), dry core	2.3	7.1	2	90
58.4-63.0	Soft, cream limestone (Ocala), dry core	4.6	4.8	4	50
63.0-66.0	Soft, cream limestone (Ocala), dry core	3.0	[illegible].2	2	70
66.0-69.7	Soft, white limestone with thin medium-hard (layers Ocala), dry core	3.7	-2.8	2	100
69.7-72.0	Soft, white limestone (Ocala), dry core	2.3	-6.5	2	100

NOTE: No water used while coring; drill run at low speed and pressure. Time gives little indication of hardness.

Summary: Overburden = 12.2'; Ocala limestone = 51.0'; Ocala above project depth (-5' MSL) is: 78% soft; 22% medium-hard; 0% hard.

W-1194

Station 8210

U.S. Form No. 291

WATERWAY FROM CHESAPEAKE BAY TO THE DELAWARE RIVER

U. S. Army Corps of Engineers - Philadelphia District

ROUTE NO. 10

LOG OF [illegible]

LOCATION: [illegible] Route 13 and [illegible] Creek

Elevation of ground surface [illegible]

Sample No.	Description of Material	Depth in Feet From	To	Thickness of Layer in Feet	Elevation in Feet
1	Fine, tan sand	[illegible]	[illegible]	[illegible]	[illegible]
2	Fine, gray sand	[illegible]	[illegible]	[illegible]	[illegible]
3	Fine, brown sand, little clay	[illegible]	[illegible]	[illegible]	[illegible]
4	Fine, gray sand and clay	[illegible]	[illegible]	[illegible]	[illegible]
5	Soft, white limestone with thin medium hard layers (Scale)	[illegible]	[illegible]	[illegible]	[illegible]
6	Serpentine, white limestone (Scale)	[illegible]	[illegible]	[illegible]	[illegible]
7	Soft, white limestone with thin medium hard layers (Scale)	[illegible]	[illegible]	[illegible]	[illegible]
8	Soft, green limestone with thin, medium-hard layers (Scale)	[illegible]	[illegible]	[illegible]	[illegible]
9	Soft, white limestone with thin, medium-hard layers (Scale)	[illegible]	[illegible]	[illegible]	[illegible]
10	Soft, light green limestone (Scale)	[illegible]	[illegible]	[illegible]	[illegible]
11	Soft, green limestone (Scale)	[illegible]	[illegible]	[illegible]	[illegible]
12	Soft, green limestone (Scale)	[illegible]	[illegible]	[illegible]	[illegible]

Elevation of Ground Water [illegible] Reference: [illegible]

Summary: [illegible]

Date Drilled [illegible]

Classified by [illegible]

Periarchus

Left to old crew to complete granular grade [illegible]

Barnacle bed

Periarchus, A. Pinnatus

Penenoplis (?) "A"

Bolivinaria "A"

Periarchus

Penenoplis (?) "A"

Periarchus

Periarchus, Crabs, Barnacles

" " " , Continued

W-1194

In 4 Sheets - Sheet 2

D.O. Form No. 201

WATERWAY FROM CUMBERLAND SOUND, GA., AND FLA., TO THE MISSISSIPPI RIVER
U. S. ENGINEER OFFICE - JACKSONVILLE, FLA.

ROUTE NO. 138

LOG OF BORE: BORING NO. 19

Dunnellon Loc. Site
LOCATION On Route 138 alignment 188.49 miles from Atlantic entrance,
Sec. 31, T 16 S, R 17 E
Elevation of ground surface 88.8 m.s.l.

Sample No.	Description of Material	Depths-Ft. From	Depths-Ft. To	Thickness Feet	Top Elev Feet m.s.l.	Drilling Time Min.	Core Recovery %	Remarks
13	Soft, gray limestone (Ocala) very sugrgrel.	64.9	66.7	1.8	-3.7	2	45	[illegible]
14	Hard, gray limestone (Ocala)	66.7	70.3	3.6	-5.1	7	50	[illegible]
15	Soft, gray limestone (Ocala)	70.3	74.0	3.7	-8.7	2	55	[illegible]
16	Soft, brown limestone with hard layers (Ocala)	74.0	75.6	1.6	-10.4	3	60	[illegible]
17	Hard, porous, brown limestone with soft layers (Ocala) Dolomitic	75.6	79.2	3.6	-11.7	8	55	[illegible]
18	Soft, brown limestone (Ocala), Dol & Silicic	79.2	79.8	1.2	-12.6	1	60	[illegible]
19	Soft, gray limestone with hard layers (Ocala) Silicic, Carbonaceous, Pyritic	79.8	82.0	2.2	-13.5	3	55	[illegible]
20	Soft, gray limestone (Ocala) "	82.0	84.0	2.0	-15.4	4	50	[illegible]
21	Medium-hard, gray limestone (Ocala) "	84.0	84.4	0.4	-15.6	5	50	[illegible]
22	Soft, gray limestone (Ocala) as above granulated	84.4	88.1	3.7	-16.7	3	50	[illegible]
23	Soft, gray limestone (Ocala) "	88.1	91.0	2.9	-19.6	3	45	[illegible]
24	Hard, gray limestone with soft layers (Ocala) Sil, porous, sugary Kaol. Dol.	91.0	93.5	2.5	-21.4	3	50	[illegible]

Elevation of Ground Water 40.8 ft.m.s.l. Reference:
Summary:

Date drilled:

Classified by:

Top Gulf Hammock

Soft, Dense, Massive Silty Dol Pyritic & Slightly Carbonaceous

"Wekiva" Ls

Coskinolina, Peneroplis "A" Miliolids, Lituonella Elphidium "A"

Lituonella & Dictyoconus cookei & above

W-1174

In 4 Sheets - Sheet 3

D.O. Form No. 291

WATERWAY FROM CUMBERLAND SOUND, GA., AND FLA.,
TO THE MISSISSIPPI RIVER
U. S. ENGINEER OFFICE - JACKSONVILLE, FLA.

ROUTE NO. 13B

LOG OF CORE BORING NO. 19

LOCATION Dunnellon Lock Site On Route 13B alignment 165.49 miles from Atlantic Entrance.
Sec. 31, T 16 S, R 19 E
Elevation of ground surface 65.6 M.S.L.

Sample No.	Description of Material	Depths-Ft. From	Depths-Ft. To	Thickness Feet	Top Elev. Feet m.s.l.	Drilling Time Min.	% Core Recovery	Remarks
25	Hard, gray limestone with thin, soft layers (Ocala)	93.5	94.5	1.0	-27.9	2	100	Dry core
26	Soft, porous, gray limestone with medium-hard layers (Ocala)	94.5	97.6	3.1	-28.9	4	100	Dry core
27	Hard, gray, fairly impervious limestone (Ocala)	97.6	100.9	3.3	-32.0	8	100	Dry core
28	Hard, moderately porous, gray limestone with 0.6 ft. medium-hard layer (Ocala)	100.9	103.7	2.8	-35.3	8	100	Dry core
29	Hard, porous, brown limestone (Ocala)	103.7	105.2	1.5	-38.1	4	80	Drilled with water
30	Soft, brown limestone with thin, hard layers (Ocala)	105.2	107.5	2.3	-39.6	3	25	Drilled with water (Soft material washed away)
31	Soft, gray limestone (Ocala)	107.5	108.5	1.0	-41.9	1	50	Dry core
32	Hard, fairly impervious, gray limestone with 0.3 ft. soft layer on top (Ocala)	108.5	111.2	2.7	-42.9	25	60	Drilled with water
33	Medium-hard, porous, gray limestone with soft layers (Ocala)	111.2	115.3	4.1	-45.6	7	55	Drilled with water (Soft material washed away)

Elevation of Ground Water 42.5 ft.m.s.l. Reference:
Summary:

Date Drilled May 31, 1933 July 14, 1933

Classified By E. B. Burney Jr.
Geologist

In 4 Sheets - Sheet 3

W-1194

In 4 Sheets - Sheet 4

S.O. Form No. 592

WATERWAY FROM CUMBERLAND SOUND, GA., AND FLA., TO THE MISSISSIPPI RIVER

U. S. ENGINEER OFFICE - JACKSONVILLE, FLA.

ROUTE NO. 188

LOG OF CORE BORING NO. 18

LOCATION On North Lay Alignment 158.69 miles from Atlantic Entrance. Dupuellon Lock Site Sec. 31, T 16 S, R 19 E

Elevation of ground surface 65.0 M.S.L.

Sample No.	Description of Material	Depths-Ft. From	Depths-Ft. To	Thickness Feet	Top Elev. Feet m.s.l.	Drilling Time Min.	% Core Recovery	Remarks
34	Hard, fairly impervious, gray limestone (Ocala) Dolomite	115.8	117.1	1.3	-49.7	11	65	Drilled with water
35	Medium-hard, gray limestone, fairly impervious, with thin, soft layers (Ocala)	117.1	119.2	2.1	-51.5	4	90	Drilled with water
36	Medium-hard, porous, gray limestone, with few thin, soft layers (Ocala)	119.2	126.7	7.5	-53.6	12	95	Drilled with water
37	Medium-hard to soft, moderately porous, gray limestone (Ocala)	126.7	134.4	7.7	-61.1	10	95	Drilled with water
38	Same as last	134.4	136.2	1.8	-68.8	5	100	Drilled with water
39	Medium-hard, porous gray limestone (Ocala) gm. hd porous Dol.	136.2	141.0	4.8	-70.6	6	100	Drilled with water

NOTE: No water used while coring except for samples numbers 14, 17, 29, 30, and 32 through 39. Drill run at low speed and pressure. This gives little indication of hardness.

Spirolina

Soft, finely granular somewhat dense Brn-gray v. fossil. ls

(Cosinolina c/s 40) Dictyoconus americanus D. cooki, Eiphidium A"

Elevation of Ground Water 42.5 ft.m.s.l.

Summary:
Overburden = 39.5 ft.
Ocala limestone = 101.5 ft.
Ocala above project depth (-8' m.s.l.) is:
87% soft
3% medium-hard
10% hard

References: Sheet 5, Plate IX, Appendix B, Report 12-30-33.

May 31, 1933

Date Drilled July 14, 1933

Classified By E. B. Garrett
Geologist

In 4 sheets - sheet 4

OWNER : USED (CB 17A, Rt 13B)
LOCATION : On Rt. 13B, align. Sta. 156.89 miles from Atlantic entrance Sec. 36, T16S, R18E'
COUNTY : Marion
ELEVATION : 49.13'
STARTED : April 4, 1933
COMPLETED : April 7, 1933
DEPTH : 149.3'
DRILLER : U S E D
HEAD : 29.5'
REMARKS : 30 samples beginning with the surface and continuing to 149.3' brought in by Dr. R. O. Vernon during April and May, 1946.

Waterway from Cumberland Sound, Georgia and Florida, to the Mississippi River
U. S. Engineer Office - Jacksonville, Florida

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recovery
0.0-10.0	Fine, tan sand, wash sample	10.0	49.1		
10.0-14.4	Fine, gray sand, wash sample	4.4	39.1		
14.4-15.9	Gray, calcareous clay, dry sample	1.5	34.7		
15.9-21.0	Same as last	5.1	33.2		
21.0-22.2	Gray, plastic clay, little sand, dry sample	1.2	28.1		
22.2-23.1	Gray sand and clay, dry sample	0.9	26.9		
23.1-28.9	Same as last, wash sample	5.8	26.0		
28.9-33.5	Gray clay and sand, wash sample	4.6	20.2		
33.5-35.4	Yellow sand and clay, fragments of limestone, wash sample	1.9	15.6		
35.4-43.5	Yellow clay and decayed limestone (Ocala), wash sample	8.1	13.7		
43.5-46.6	Medium-hard, cream limestone (Ocala),	3.1	5.6		33
46.6-54.9	Soft, cream limestone (Ocala) partially decayed	8.3	2.5		12
54.9-57.8	Soft, cream limestone (Ocala) partially decayed	2.9	-5.8		28
57.8-60.2	Soft material no sample	2.4	-8.7		0
60.2-62.1	Cavity	1.9	-11.1		
62.1-72.4	Soft material no sample	10.3	-13.0		
72.4-73.4	Soft, cream limestone (Ocala) partially decayed	1.0	-23.3		70
73.4-73.9	Soft, cream limestone (Ocala)	0.5	-24.3		40
73.9-79.1	Medium-hard, brown limestone (Ocala)	5.2	-24.8		6
79.1-80.2	Soft material no sample	1.1	-30.0		0
80.2-80.85	Hard, gray limestone	.65	-31.1		95
80.85-91.8	Soft material no sample	10.95	-31.7		0
91.8-92.7	Loose boulders of medium-hard, gray limestone	0.9	-42.7		30
92.7-96.5	Hard, gray limestone (Ocala)	3.8	-43.6		40
96.5-101.4	Soft material no sample	4.9	-47.4		0

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recovery
101.4-103.4	Hard, gray limestone (Ocala)	2.0	-52.3	15	65
103.4-105.6	Soft material no sample	2.2	-54.3	8	0
105.6-107.7	Hard, gray limestone (Ocala)	2.1	-56.5	13	75
107.7-111.2	Soft material no sample	3.5	-58.6	10	0
111.2-112.7	Medium-hard, gray limestone (Ocala)	1.5	-62.1	13	95
112.7-115.6	Same as last	2.9	-63.6	10	5
115.6-120.2	Soft material no sample	4.6	-66.5	12	0
120.2-120.6	Hard, gray limestone (Ocala)	0.4	-71.1	6	100
120.6-122.6	Medium-hard, gray limestone (Ocala)	2.0	-71.5	6	40
122.6-123.3	Hard, gray limestone (Ocala)	0.7	-73.5	5	90
123.3-124.2	Soft material no sample	0.9	-74.2	2	0
124.2-125.8	Soft material no sample	1.6	-75.1	2	0
125.8-126.8	Cavity	1.0	-76.7		
126.8-134.0	Medium-hard, gray limestone (Ocala)	7.2	-77.7	20	20
134.0-135.1	Soft material no sample	1.1	-84.9	2	0
135.1-144.7	Medium-hard, gray limestone (Ocala)	9.6	-86.0	22	11
144.7-145.6	Same as last	0.9	-95.6	8	55
145.6-149.3	Same as last	3.7	-96.5	13	33

NOTE: Drill run at low speed and pressure. Time gives little indication of hardness.

Summary: Overburden 43.5'
Ocala Limestone 105.8'
Ocala above project depth (-8' MSL) is: 77% soft
23% medium-hard
0% hard

Reference: Sheet 6, Plate IX, Appendix B, Report 12-30-33.

OWNER: U S E D (CB 16, Rt. 13B)
LOCATION: On Rt. 13B alignment 157.90 miles from Atlantic entrance, Sta. 8337+00 Sec. 35, T16S, R18E
COUNTY: Citrus
ELEVATION: 31.44'
STARTED: April 4, 1933
COMPLETED: April 4, 1933
DEPTH: 114.6'
DRILLER: U S E D
HEAD: ?
REMARKS: 6 samples beginning with the surface and continuing to 114.6' brought in by Dr. R. O. Vernon during April and May 1946.

Waterway from Cumberland Sound, Ga. and Fla., to the Mississippi River
U. S. Engineer Office - Jacksonville, Fla.

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recovery
0.0-8.0	Fine, gray sand, wash sample	8.0	31.4		
8.0-8.4	Gray clay, wash sample	0.4	23.4		
8.4-12.9	Fine, gray sand, wash sample	4.5	23.0		
12.9-80.0	Fine, gray sand, little clay and shell, wash sample	67.1	18.5		
80.0-109.3	Same as last, wash sample	29.3	-48.6		
109.3-114.6	Soft, gray limestone (Ocala), no core. Obtained wash sample.	5.3	-77.9		

NOTE: Drill run at low speed and pressure. Time gives little indication of hardness.

Summary: Overburden 109.3'
Ocala limestone 5.3'
Ocala above project depth (-8' MSL) is : None

Reference: Sheet 6, Plate IX, Appendix B, Report 12-30-33.

OWNER : U S E D (CB 12, Rt. 13B)
LOCATION : Align. 162.79 miles from Atlantic entrance, Sec. 35, T16S, R17E Sta. 8596
COUNTY : Citrus
ELEVATION : 30.1'
STARTED : May 27, 1933
COMPLETED : May 27, 1933
DEPTH : 70.1'
DRILLER : U S E D
HEAD : 25.1'
REMARKS : 22 samples beginning with the surface and continuing to 66.3' brought in by Dr. R. O. Vernon during April and May, 1946.

Waterway from Cumberland Sound, Ga, & Fla. to the Mississippi River
US Engineer Office - Jacksonville, Florida

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recovery
0.0-6.0	Fine, gray sand, wash sample	6.0	30.1		
6.0-14.0	Fine, gray sand, wash sample	8.0	24.1		
14.0-21.9	White Sand and clay, dry sample	7.9	16.1		
21.9-23.2	Gray, sandy clay, dry sample	1.3	8.2		
23.2-27.4	Gray sand and clay, dry sample	4.2	6.9		
27.4-30.0	Medium gray sand, dry sample	2.6	2.7		
30.0-33.1	Soft, gray limestone with .4' hard layer at top (Ocala), dry core	3.1	0.1	6	100
33.1-39.0	Soft, gray and cream limestone (Ocala), dry core	5.9	-3.0	8	100
39.0-40.5	Medium-hard, gray limestone (Ocala), dry core	1.5	-8.9	4	100
40.5-41.5	Soft, gray limestone and carbonaceous clay, dry core	1.0	-10.4	2	100
41.5-42.8	Hard, gray limestone (Ocala), dry core	1.3	-11.4	5	100
42.8-44.3	Medium-hard, gray limestone with .5' hard layer at top (Ocala), dry core	1.5	-12.7	3	80
44.3-46.3	Soft, gray limestone (Ocala), dry core	2.0	-14.2	2	50
46.3-48.1	Soft, gray limestone (Ocala), dry core	1.8	-16.2	3	66
48.1-49.8	Hard, gray limestone (Ocala), drilled with water	1.7	-18.0	6	100
49.8-51.6	Soft, gray limestone with .3' hard layer on bottom, dry core	1.8	-19.7	4	80
51.6-55.2	Medium-hard, gray limestone with .4' hard layer at top (Ocala), dry core	3.6	-21.5	11	100
55.2-56.9	Soft, gray limestone, dry core	1.7	-25.1	3	100
56.9-60.7	Hard, gray limestone with thin, medium-hard layers (Ocala) dry core	3.8	-26.8	10	90

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recovery
60.7-63.0	Hard, gray limestone with .8' soft layer (Ocala), dry core	2.3	-30.6	6	100
63.0-64.4	Medium-hard, gray limestone with .4' soft layer on top (Ocala), dry core	1.4	-32.9	2	95
64.4-66.3	Hard, gray limestone with thin, soft layers (Ocala), dry core	1.9	-34.3	5	100
66.3-70.1	Soft material no sample	3.8	-36.2		

SUMMARY: Overburden - 30'
Ocala Limestone - 40.1'
Ocala above project depth (-8' MSL) is : 100% soft
0% medium-hard
0% hard

Reference: Sheet 6, Plate IX, Appendix B, Report 12-30-33.

OWNER : U S E D (CB 11, Rt. 13B)
LOCATION : On Rt. 13B, align. 164.02 miles from Atlantic entrance and 1200 feet north of align. Sec. 35, T16S, R17E
COUNTY : Levy
ELEVATION : 30.16'
STARTED : May 25, 1933
COMPLETED : May 25, 1933
DEPTH : 70.2'
DRILLER : U S E D
HEAD : 27.9'
REMARKS : 29 samples beginning with the surface and continuing to 70.2' brought in by Dr. R. O. Vernon during April and May, 1946.

Waterway from Cumberland Sound, Ga. and Fla., to the Mississippi River
U. S. Engineer Office - Jacksonville, Fla.

		Thickness Feet	Top Elev. Feet MSL	Drilling Time Min.	% Core Recovery
0.0-1.4	Fine, gray sand, wash sample	1.4	30.2		
1.4-5.4	Fine, gray sand, wash sample	4.0	28.8		
5.4-17.2	Fine, gray sand, little clay, wash sample	11.8	24.8		
17.2-23.0	Fine, white sand, wash sample	5.8	13.0		
23.0-25.0	Black clay, wash sample	2.0	7.2		
25.0-30.0	Soft, gray limestone with .1' hard layer (Ocala) dry core	5.0	5.2	7	70
30.0-31.1	Soft, gray limestone .3' hard layer, dry core	1.1	.2	3	100
31.1-33.8	Hard, gray limestone (Ocala), drilled with water	2.7	-0.9	6	20
33.8-35.2	Hard, gray limestone with thin, soft layers (Ocala), drilled with water	1.4	-3.6	3	100
35.2-37.0	Hard, gray limestone (Ocala), drilled with water	1.8	-5.0	5	60
37.0-38.0	Same as last, dry core	1.0	-6.8	3	100
38.0-39.1	Soft, brown limestone (Ocala), dry core	1.1	-7.8	2	100
39.1-40.5	Medium-hard, gray limestone (Ocala), dry core	1.4	-8.9	2	100
40.5-41.5	Soft, brown limestone (Ocala), dry core	1.0	-10.3	1	100
41.5-42.5	Hard, gray limestone with thin, soft layers (Ocala), dry core	1.0	-11.3	3	100
42.5-43.5	Hard, gray limestone (Ocala), drilled with water	1.0	-12.3	3	95
43.5-44.9	Soft, gray limestone (Ocala), dry core	1.4	-13.3	2	100
44.9-48.7	Medium-hard, gray limestone with thin, soft layers (Ocala), dry core	3.8	-14.7	7	100
48.7-51.3	Hard, gray limestone with medium-hard layers (Ocala), dry core	2.6	-18.5	6	100
51.3-55.7	Soft, gray limestone with thin, medium-hard layers (Ocala), dry core	4.4	-21.1	5	95

		Thickness Feet	W-1202 Elev. Feet MSL	Drilling Time Min	% Core recovery
55.7-56.6	Hard, gray limestone (Ocala), drilled with water	0.9	-25.5	2	100
56.6-58.4	Soft, gray limestone with .4' medium-hard layer (Ocala), dry core	1.8	-26.4	3	100
58.4-59.0	Soft, gray limestone with thin, medium-hard layers (Ocala), dry core	0.6	-28.2	2	100
59.0-60.0	Medium-hard, gray limestone with soft layers (Ocala), dry core	1.0	-28.8	2	100
60.0-61.9	Hard, gray limestone (Ocala), drilled with water	1.9	-29.8	4	100
61.9-64.5	Medium-hard, gray limestone (Ocala), drilled with water	2.6	-31.7	4	40
64.5-65.7	Hard, gray limestone (Ocala) drilled with water	1.2	-34.3	3	100
65.7-68.1	Soft, gray limestone (Ocala), dry core	2.4	-35.5	3	100
68.1-70.2	Medium-hard, gray limestone, dry core	2.1	-37.9	6	100
70.2-	Total Depth				

Summary

Overburden	25.0'	
Ocala Limestone	45.2'	
Ocala above project depth (-8 MSL) is :	48%	Soft
	0%	Medium-hard
	52%	Hard

Reference Sheet 6, Plate IX, Appendix B, Report 12-30-33.

FLORIDA BUREAU OF GEOLOGY - LITHO LOG PRINTOUT. (PROGRAM FBG01)

W- 1202 (PERMIT NO-).
LV. CO. T16S R17E SEC 35 N 27° 21' 42" W 81° 33' 40"
TOTAL DEPTH- 70 FT. ELEV.- 30FT. SAMPLES- - FT.
COMPLETED- 77.05.25

WELL NAME-
USED

REMARKS-
WORKED BY WELL DOCK, APRIL 251975
0-25 SAND & CLAY
0-25 SAND & CLAY
25-51.3 INGLIS >
51.3-70 AVON PARK

LITHOLOGIC LOG
W- 1202, LV CO. T16S, R17E, SEC 35

5.4 SAND , V LT OR, 20 PERCENT POROSITY-INTERGRAN,SIZE-FINE,
RANGE- FINE- MED, SUB-ANG, MED SPH, NON-IND, 05 PCT.
CLAY,NO FOSSIL,
17.2 SAND , V LT OR, 20 PERCENT POROSITY-INTERGRAN,SIZE- MED,
RANGE- MED-FINE, SUB-ANG, MED SPH, NON-IND, 05 PCT.
CLAY,NO FOSSIL,
25.0 SAND , DK YL OR, 20 PERCENT POROSITY-INTERGRAN,SIZE- MED,
RANGE- MED-CRSE, SUB-ANG, MED SPH, NON-IND, 05 PCT.
CLAY,NO FOSSIL,
30.0 DOLOSTONE, GY OR, 04 PERCENT POROSITY-INTERGRAN,50-90 PCT.
ALTERED , ANHEDRAL,SIZE- V F, RANGE- V F-CRYP, MOD IND,
DOLOM CMT,NO FOSSIL,
40.5 DOLOSTONE, GY OR, 04 PERCENT POROSITY-INTERGRAN, & P VUGS,
50-90 PCT. ALTERED , ANHEDRAL,SIZE- V F, RANGE- V F-CRYP,
MOD IND,DOLOM CMT,ORGANICS ,
51.7 LIMESTONE, YL GY, 04 PERCENT POROSITY-INTERGRAN,GRAINTYPE-
MICRITE, BIOGENIC, SKELETAL, 65 PCT, ALLOCHEMS,SIZE-CRYP,
RANGE- CRYP- V F, MOD IND,MICRT CMT,FOSS FRAG,
60.0 LIMESTONE, YL GY, 04 PERCENT POROSITY-INTERGRAN,GRAINTYPE-
MICRITE, BIOGENIC, SKELETAL, 70 PCT, ALLOCHEMS,SIZE-CRYP,
RANGE- CRYP- V F, GOOD IND,MICRT CMT,FORAMINIF,
BIOTOGONLS POCKET
70.0 LIMESTONE, YL GY, 04 PERCENT POROSITY-INTERGRAN,GRAINTYPE-
MICRITE, BIOGENIC, SKELETAL, 65 PCT, ALLOCHEMS,SIZE-CRYP,
RANGE- CRYP- V F, GOOD IND,MICRT CMT,NO FOSSIL,
TD

*** END OF DATA ***

PERMIT # 66
OWNER : Coastal Petroleum Company
LOCATION : 990' from W line and 1650' from S line of SW$\frac{1}{4}$ of Sec. 16, T15S, R13E approximately 3$\frac{1}{2}$ miles N of Cedar Keys
FARM NAME : James B and Julian P Ragland No. 1 Lease # 224-A w/IIF
COUNTY : Levy
ELEVATION : 5' grd., 14' DF
STARTED : August 16, 1947
COMPLETED : October 18, 1947
CASING : 18 5/8" at 41' w/75 sks; 13 3/8" at 305 w/100 sks.
DEPTH : 5850'
DRILLER : Crow Drilling Company
REMARKS : 637 samples 10-5850'; 12 cores 1860-2480'. Schlumberger 305-5850'.

First Sample in AVON PARK

380-390 Limestone, white, highly moldic and Limestone, cream, highly moldic; both limestones showing abundant traces of micro fossil debris; and dolomite, light brown, moldic, about 25% of sample. Some fragments gray, moldic limestone similar to the white in all respects and apparently representing gray areas in the whith limestone. Some carbonaceous streaks in the dolomite. Some specimens of Ocala forams in white limestone indicating this material caving from that formation. Cream limestone and dolomite probably Avon Park in age on lithologic aspect, but no supporting faunal evidence in sample.

390-400 Like the preceeding, but a mold of a large miliolid, characteristic of the Avon Park in on of cream limestone fragments. Species in undiscribed. Fragment of Coskinolina floridana in a cream limestone chip.

400-410 Dolomite and limestone fragments as above. Dolomite about 50% of sample.

410-420 Same. Specimen of Spirolina coryensis.

420-435 Materials as above. No change to 460'.

460-470 Materials same as above and some fragments of a hard, tan, irregular, moderately moldic limestone.

470-480 Tan limestone, as described from preceeding sample, dominant. Some carbonaceous streaks in this limestone. No determinable fossil material.

480-490 Same. Also some fragments of carbonaceous (?) chalk, and some irregularly shaped nodules of quartz.

490-500 Tan limestone and some quartz, as above. Some cavings of dolomite and limestone, from higher levels.

DEFINITE TOP OF LAKE CITY

500-510 Dolomite, light brown, finely crystalline, finely porous. Selenite, irregularly distributed in this dolomite averaging about 25% of the dolomitic rock fragments. About 25% of sample limestone, as described from immediately preceeding samples. A dolomitised specimen of Dictyoconus americanus in this dolomite. Details of original structure still visable. This sample LAKE CITY in age. Top of this horizon, possibly the top of the tan limestone first noted at 460-470'.

510-520 Dolomite, light brown, very finely crystalline, dense, selenitic.

520-530 Dolomite, as above and 75% fragments of a highly carbonaceous chalk, with abundant specimens of D. americanus.

530-540 Limestone, light tan, chalky texture, moderately hard, abundant specimens of D. americanus.

540-550 Dolomite, light tan, very finely crystalline, and limestone, tan. D. americanus in dolomite fragments.

550-560
560-570 Limestone, light tan, very finely dolomitic, flakey, some vaguely defined, chalky, traces of micro fossil material.

570-580 Dolomite, very finely crystalline, brown, irregularly porous. Dolomite contains a large amount of rather evenly distributed selenite.

580-590 Dolomite, as in preceeding, but moldic, moldic depressions often have dolomite fill.

590-600 Same and some hard, light tan limestone.

600-610
610-620 Same. Some fragments Dictyoconus in tan limestone.

620-630 Limestone, hard, dolomitic, moderately moldic, trace selenite.

630-640 Same, and limestone, hard, light tan. Many small inclusions of selenite. Some specimens of D. americanus.

640-650 Limestone, tan, dolomitic, in part with finely grained texture, irregularly moldic. Selenite inclusions in some chips.

650-660
660-670
670-680 Same and many fragments of light tan, irregularly moldic, limestone.

680-690 Limestone, light tan, very finely granular texture. Slightly moldic.

690-700 Limestone, light brown, dolomitic, some D. americanus.

700-710 Limestone, brown, dolomitic, flaky, moderately moldic, carbonaceous. Contains some selenite.

710-720 Dolomite, rich brown, finely crystalline, dense. Some selenite.

720-730, 730-740 Same

740-750 Limestone, hard, tan and light brown in part, dolomitic. Some specimens of D. americanus.

750-760 Like preceeding. Some chips with selenite inclusions.

760-770 Same. Limestone, irregularly finely moldic.

770-780, 780-790 Same

780-790
790-800 Limestone, light brown, irregular, very finely dolomitic, irregularly, finely porous, scattered small inclusions selenite.

800-810 Limestone, tan, dolomite finely grained texture. A few slightly moldic areas. A trace of selenite.

810-820, 820-830, 830-840, 840-850, 850-860 Same

860-870 Same and 50% small fragments of a chalky dolomitic limestone with trace of abundant micro fossil debris.

870-880 Limestone, cream, coquinoidal. A mass of molds of foraminifera and fragmental fossil debris. Abundant specimens of Dictyoconus some of Fabularia vaughani and Lockhartia cushmani.

880-890 Same, some Echinoid fragments and many fragments several species of Bryazoa.

890-900 Same. A trace of glauconite in this limestone. Fauna same as in preceeding and some specimens of Lepidocyclina cedarkeysensis. Some of Amphistegina lopeztrigoi, Gyroidina nassauensis and Discorbis inornatus, Archais columbiensis.

900-910 Same

910-920 Materials and fauna same as above. Lockhartia cushmani and Dictyoconus dominant.

920-930 Material and fauna like that above. A coquina, composed mainly of Dictyoconus americanus. Trace of glauconite.

930-940 Dolomite, brown, finely grained, trace of glauconite. A few fragments with many chalky fragments of fossil debris.

940-950 Dolomite as above, abundant chalky, usually fragmental molds of micro fossils. Fauna same as listed for 900' etc. Trace of glauconite.

950-960 Dolomite, brown, medium grained. Imbedded chalky, micro fossil material, as in preceeding.

960-970, 970-980 Same

980-990 Limestone, light tan, chalky, highly dolomitic, moderately glauconitic, trace of selenite. Abundant traces of an original high micro-faunal content. Very little determinable fossil material.

990-1000 Dolomite, brown, medium crystalline, somewhat glauconitic, irregularly porous. A few chalky areas, a trace of selenite.

1000-1010, 1010-1020 Same

1020-1030 Similar, but more chalky than preceeding. Chalk represents disintigrated remnants of fossil material.

1930-1940 Limestone chalky, dolomitic and moderately glauconitic. Abundant fragmental micro fossil material. Dictyoconus and others.

1040-1050 Similar to preceeding. Some specimens of Qunteria floridana.

1050-1060 Same

1060-1070 Same, also many fragments several species of Bryazoans. Some small gastropods and a small Echinoid.

1070-1080 Light tan, slightly glauconitic limestone. A coquina of rolled molds and molds fragments of micro and some macro fossil materials. Minor amount of glauconite in this limestone.

1080-1090	Like the preceeding. Gunteria floridana fairly common.
1090-1100	Same
1100-1110 1110-1120 1120-1130	Limestone, light cream, chalky and calcitic, porous, coquinoidal, composed of mass of molds of micro and other worn and finely broken fossil material. Many specimens of Gunteria floridana. 1110-1120 weakly calcitic.
1130-1140	Limestone, white, chalky, coquinoidal, fossil material poorly defined.
1140-1150	Same. Many specimens of Labiania cubensis and some of Amphistegina lopeztrigoi.
1150-1160	Same
1160-1170	Cream and white, porous limestone, composed of broken, worn and disintergrated fossil material.
1170-1180	Light gray, highly gypsiferous dolomite, medium grained.
1180-1190	Same
1190-1200	Similar to preceeding but some chalky areas in dolomite and 20% chalk.
1200-1210	White chalk, irregularly slightly porous, dolomite as above, 10%.
1210-1220 1220-1230	Limestone, white to light cream, chalky textured. Contains many molds of micro-fossils and some fragmental fossil material Many specimens of Gunteria floridana, Dictyoconus americanus. Some of Fabiania cubensis.
1230-1240 1240-1250 1250-1260	Limestone, light cream, porous, coquinoidal; a mass of small molds of fossil material. Fauna same as in preceeding.
1260-1275	Similar to above, but limestone irregularly calcitic, and fossil material more disintergrated. Fauna same as above.
1270-1280	Dolomite, light brown, slightly chalky, slightly glaconitic, medium grained, moderately gypsiferous.
1280-1290	Dolomite, brown, glauconitic, moderately gypsiferous, dense.
1290-1300	Dolomite like that above. More gypsiferous, a few chalky areas in the dolomite.

APPROXIMATE TOP OF OLDSMAR - LOWER EOCENE

1300-1310	Sample 50% dolomite as above and 50% white, chalk, glauconitic and dolomitic. Many echinoid fragments. A few chalky molds of Helicostegina gyrales and some fragments of Pseudophragmina cedarkeysensis.
1310-1320	Same
1320-1330	
1330-1340	Same. Abundant specimens of Helicostegina gyralis.
NOTE:	Top of Oldsmar could be made to conform with top of the related dolomite that come in at 1270-1280'.
1340-1350	Dolomite about 75%, chalky limestone about 25%.
1360-1370	Same
1370-1380	Light tan, very finely crystalline, gypsiferous dolomite about 50%, and white, glauconitic, chalky, coquinoidal and moderately dolomitic limestone 50%. Helicostigina gyralis common.
1380-1390	Dolomite as in preceeding, 75%, chalk 25%.
1390-1400	Dolomite, light tan, very finely crystalline; chalk, irregularly finely dolomitic and gypsiferous.
1400-1410	Cream, chalk, abundant, Helicostigina, a little dolomite.
1410-20, 1420-1430	Same
1430-1440	Chalk, moderately hard, trace of glauconite, 50%; and dolomite (probably caving, in part) 50%. Helicostegina abundant.
1440-1450	Limestone, moderately hard, white chalky texture 50%, and chert, white 50%.
1450-1460	Limestone, white moderately hard, chalky texture, qlauconitic; and chert white, 20%.
1460-1470	Same
1470-1480	Limestone, white, moderately hard, finely nodular texture, glauconitic, many Bryzoan fragments and traces of vaguely defined other fossil material. A few fragments of Pseudophagmina (?) Trace of chert. Trace of selenite.

W-1537
(Driller's Log)

OWNER	:	Coastal Petroleum Company, 408 Times Building, St. Petersburg, Fla.
FARM NAME	:	James B. and Julian P. Ragland No. 1 (Permit No. 66) Lease #224-A w/ I. I. F.
LOCATION	:	990' from WL and 1650' from SL of SW/4 of Sec. 16, T15S, R13E, approximately 3½ miles north of Cedar Keys
COUNTY	:	Levy
ELEVATION	:	5' Grd. 14' DF Schl. from Riley's
STARTED	:	August 16, 1947
COMPLETED	:	October 18, 1947
CASING	:	18-5/8" at 41' w/75 sx; 13-3/8" at 305' w/100 sx;
DEPTH	:	5850' Schlumberger from 305 to 5850'
DRILLER	:	Crow Drilling Co., Shreveport, La.
REMARKS	:	14 samples, from 10' to 100' brought into the office by Joe Banks, Tallahassee Cutting Lab., Aug. 26, 1947. 24 samples, beginning with 380' and continuing to 620', received from Mr. Joe Banks of the Tallahassee Cutting Laboratory on September 18, 1947. See News Clipping Oct. 10 as to the finding of a Layer of Woodbine Sand. 401 samples, from 380 to 4260', (392 cuttings, and 9 samples from 2 cores) were delivered by Dr. L. Jordan of the Sun Oil Company to J. C. Simpson on Oct. 2, 1947. 12 core samples, from 1860 to 2480' were brought into the office by J. E. Banks of the Tallahassee Cutting Lab. on September 26, 1947. 198 samples, from 4247 to 5850' received from the Sun Oil Company, by J. C. Simpson, October 24, 1947. Driller's Log from 0 to 5850 feet.

0-20	Sand
20-180	Lime
180-221	Hard rock
221-410	Lime and dolomite
410-667	Lime
667-792	Lime and anhydrite
792-1390	Dolomite and lime

(Driller's Log)

1390-1425	Chalk
1425-1500	Dolomite, lime, & chalk
1500-1570	Chert & chalk
1570-2705	Dolomite, lime & anhydrite
2705-4027	Chalk
4027-4327	Shale
4327-4475	Sand
4475-5080	Shale & sand
5080-5326	Shale, sand & dolomite
5326-5459	Sand & shale
5459-5462	Quartzite
5462-5515	Shale & sand
5515-5567	Sandy lime
5567-5574	Shale
5574-5596	Pink quartzite
5596-5706	Sand & shale
5706-5715	Hard sand
5715-5725	Quartzite
5725-5810	Hard sand, quartzite & clay
5810-5850	Black shale T.D.

oil + Gas well ? Permit 66

STATE BOARD OF CONSERVATION
STATE OF FLORIDA

NOV 6 1947
GEOLOGICAL SURVEY
TALLAHASSEE, FLORIDA

WELL RECORD

INSTRUCTIONS: This record is to be filed with the Board within 30 days after completion of well.

FIELD: Wildcat COUNTY: Levy

SURVEY: SEC. 16 T 15 S R 13E

WELL LOCATION: center SE of NW of SW

DATE OF COMMENCING: 8-16-47 DATE OF COMPLETION 10-18-47

NAME OF CONTRACTOR: Crow Drilling Co.

OPERATOR: Coastal Petroleum Co. LEASE: Ragland WELL NO. 1

ELEVATION AT TOP OF OIL STRING CASINGHEAD: 15' Rotary bushing 5' ground

CASING LINER AND TUBING RECORD

STRING	SIZE	WT./FT.	NAME & TYPE	AMOUNT FT.	AMOUNT IN.	DEPTH SET AT	PERFORATED FROM	PERFORATED TO
1	18 5/8			28		40		
2	13 3/8			290		305		

CEMENT & TESTING RECORD

SIZE OF HOLE	STRING	WHERE CEMENT PLACED	NO. SACKS OF CEMENT	METHOD USED	PRESSURE APPLIED IN TESTING	HARDNESS OF CEMENT DRILLED	KIND OF CEMENT
24"	1	Bottom outside	60	P & P		Hard	Acme
17½"	2	Bottom outside	100	P & P		Hard	Acme

DRILL STEM TEST

FROM	TO	CHOKES	TIME	W. P.	B.H.O.P#	B.H.C.P#	RESULTS

INITIAL PRODUCTION TEST

DATE TAKEN:

OILS: BBLS. GAS: G.O.R.:

WATER: BBLS. T.P. C.P.

CHOKE SIZE: SIZE WORKING BARREL: LENGTH OF STROKE

NO. STROKES PER MINUTE: HOURS DURATION OF TEST

CHEMICAL OR SHOOTING RECORD

SIZE	CHEMICAL OR EXPLOSIVE USED	QUANTITY	DATE	DEPTH

(OVER)

0-20' Sand
-180' Lime
-221' Hard rock
-410' Lime and dolomite
-667' Lime
-792' Lime and anhydrite
-1390' Dolomite and lime
-1425' Chalk
-1500' Dolomite, lime & chalk
-1570' Chert & chalk
-2705' Dolomite, lime & anhydrite
-4027' Chalk
-4327' Shale
-4475' Sand
-5080' Shale & sand
-5326' Shale, sand & dolomite
-5459' Sand, & shale
-5462' Quartzite
-5515' Shale & sand
-5567' Sandy lime
-5574' Shale
-5596' Pink quartzite
-5706' Sand & shale
-5715' Hard sand
-5725' Quartzite
-5810' Hard sand, quartzite & clay
-5850' Black shale T.D.

WELL SURVEYING CORPORATION

COMPOSITE LOG

Location of Well
DT-66

COMPANY: COASTAL PETROLEUM COMPANY
WELL: RAGLAND #1
RUN NO.: 1 & 2
FIELD: WC
SURVEY:
COUNTY: LEVY
STATE: FLORIDA
FILING No.

COUNTY: LEVY
FIELD OR SURVEY: WC
WELL: RAGLAND #1
COMPANY: COASTAL PETROLEUM CO.
C-14317

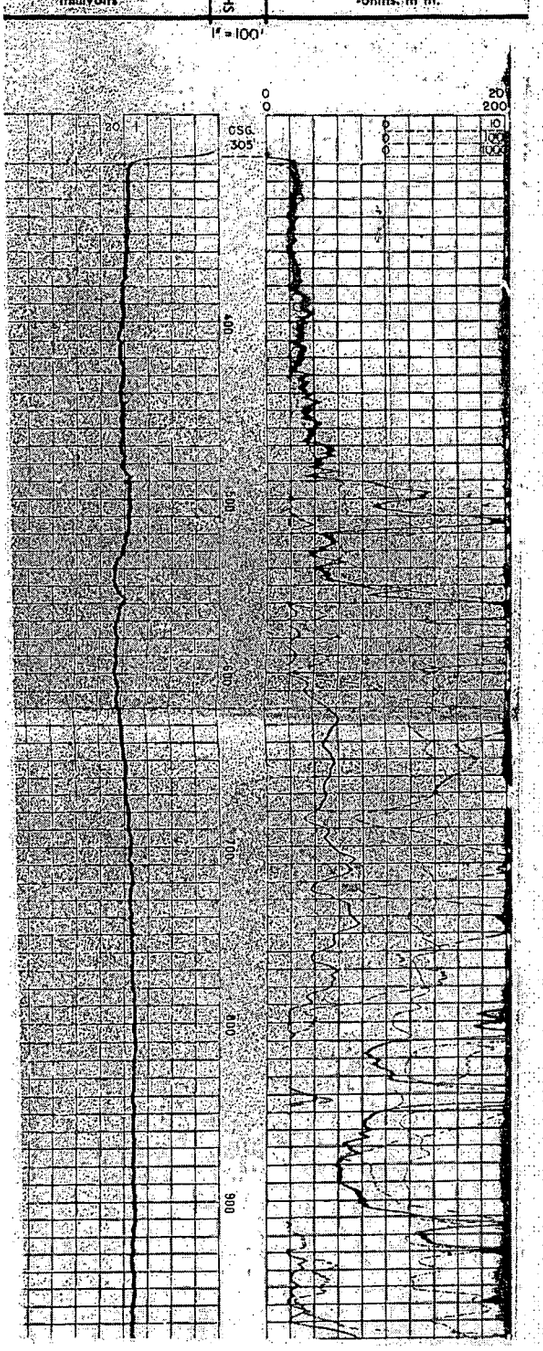
...ation: D.F.
or G.L.

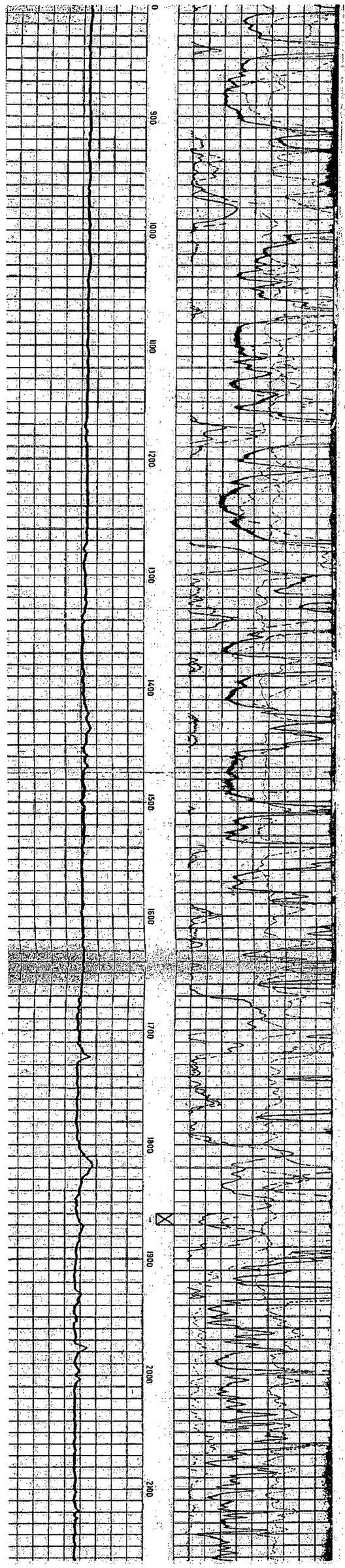
RUN	1	2				
...e	10-4-47	10-18-47				
...t Reading	4510	5850				
...t Reading	305	4510				
...tage Measured	4205	1340				
...t Shoe Schlum	305					
...t Shoe Driller	305					
...x. Depth Reached	4510	5850				
...tom Driller	4510	5850				
...ath Datum	ONE FOOT ABOVE ROTARY					
...d Nature	CHEMICAL	CHEMICAL				
Resistivity	1.6 @ 80°	0.8 @ 78°				
Weight	9	9.9				
Viscosity	50	44				
...e Size	24" to 1504'; 8¾" to 5777'; 6-5/8" to 5850'					
...om Temp	116	118				
...ings						
...M	16"					
...W	63"					
...A	24'					
...ervers	KELLOUGH	HUSTON				

REMARKS

PLEASE NOTE:
CORES AS SHOWN ON LOGS ONLY TO INDICATE AMOUNT OF CORE CUT AND AMOUNT RECOVERED. ALL INFORMATION SHOWN ON THIS LOG IN REFERENCE TO CORES, PERFORATIONS, DRILL STEM TESTS FURNISHED BY COASTAL PETROLEUM CO.

A RILEY REPRODUCTION
U.S. PATENT PENDING

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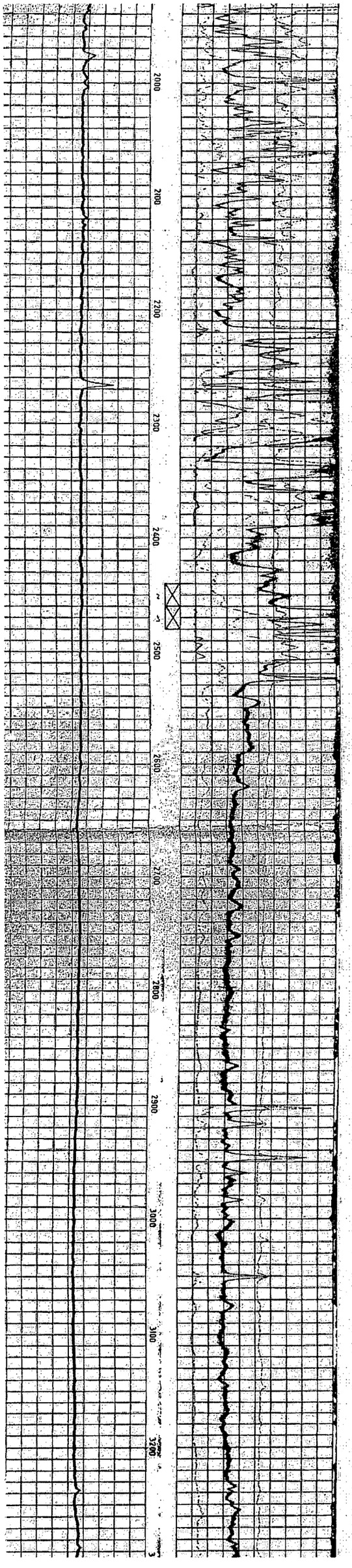
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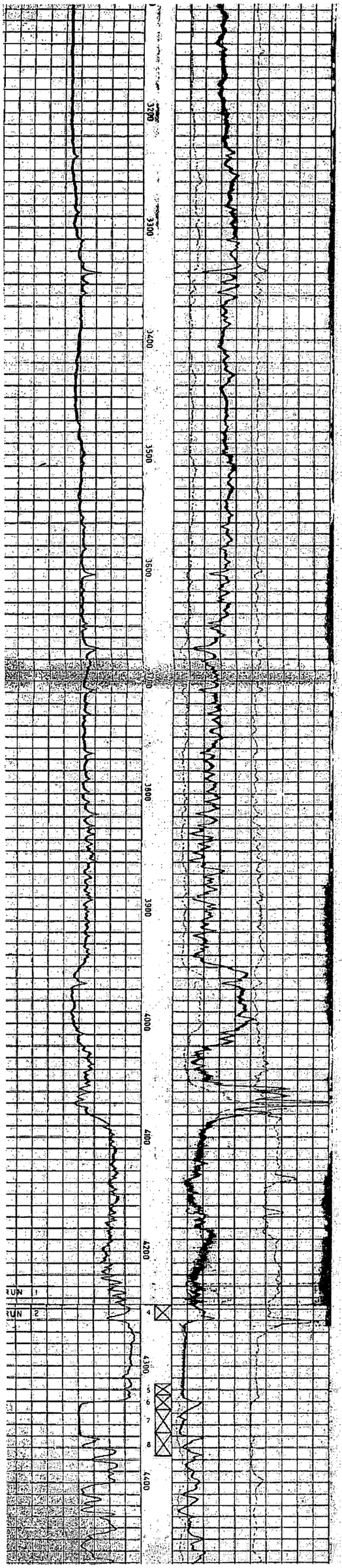
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RUN 1
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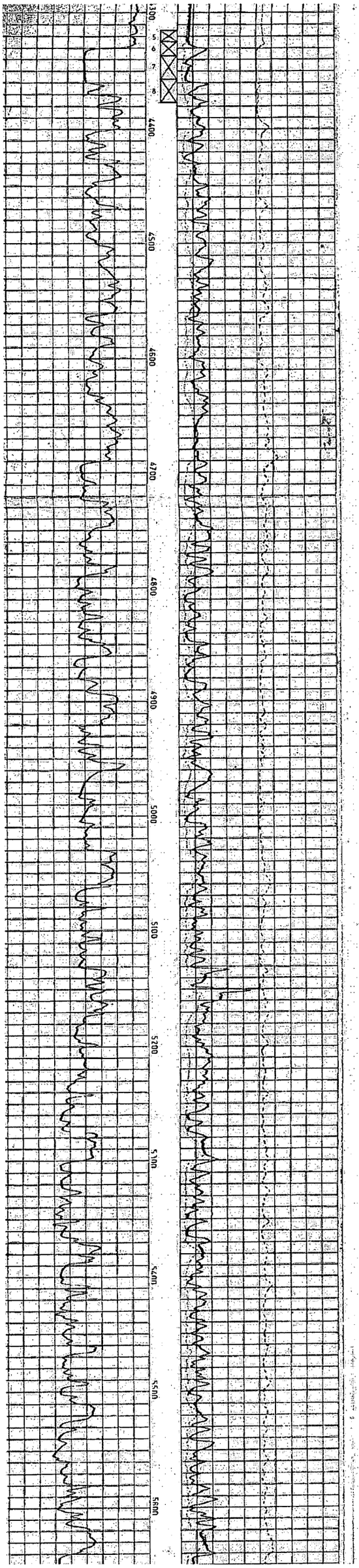
8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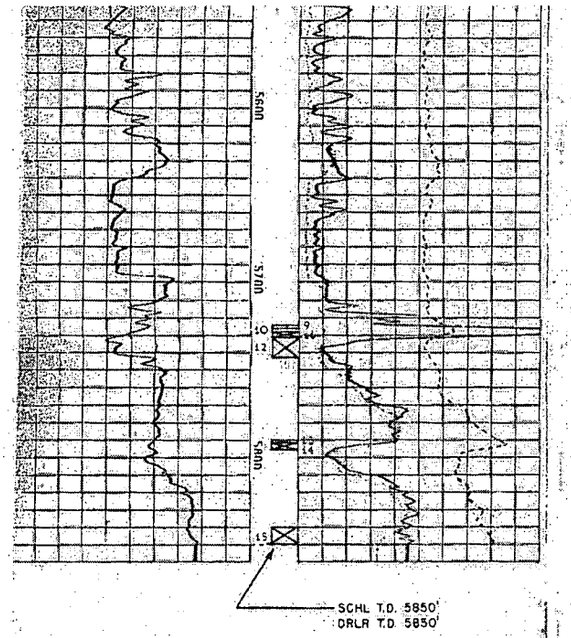
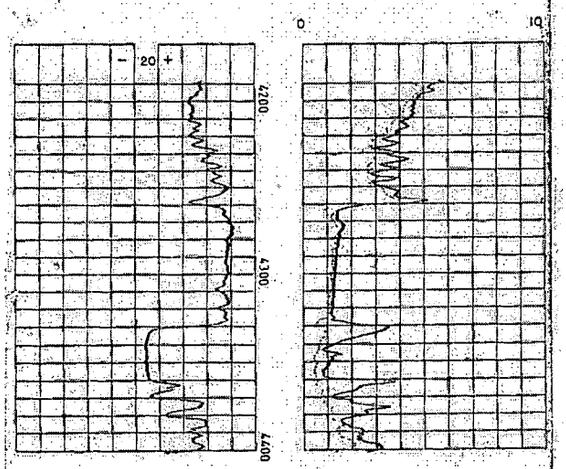


COASTAL PET. CO.
RAGLAND NO. 1
WC, LEVY CO., FLORIDA

COMPOSITE, RUNS 1 & 2

AMPLIFIED SCALE



COASTAL PET. CO.
RAGLAND NO. 1
WC, LEVY CO., FLORIDA

COMPOSITE, RUNS 1 & 2

COASTAL PETROLEUM CO. #1 RAGLAND

LEGEND

CORES

(1) 1860-1870' Rec. 7'0"
7'0" Lt. gray & tan medium xl. part granular mostly vuggy dolomite w/gypsum and black shaly streaks and trapped sulphur water.

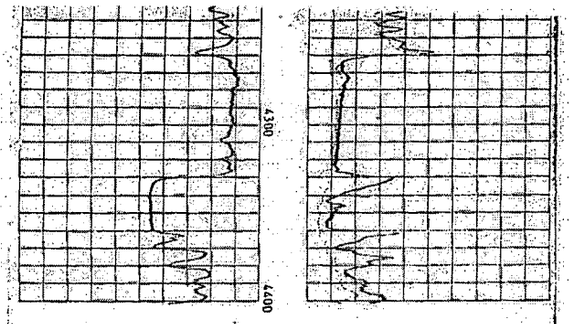
(2) 2440-2460' Rec. 3'0"
3'0" Cream v. fine xl. porous dolomite w/gypsum mol. & few lep molds.

(3) 2460-2480' Rec. 12'0"
12'0" Lt. brown fine xl. dolomite w/anhydrite nod. gypsum cement, trace of carb., & many lep molds.

(4) 4237-4260' Rec. 19'0"
17'0" Hd. green gray v. cal. lime shale w/pyrite, fish remains, & l.s.
2'0" Dk. gray & tan, white speckled part. lam. chalky shale w/trace of coarse sand, glauc. & pyrite.
1'0" Hd. lt. gray f. to crs. sandy chalk w/fish remains, phosphate pellets and glauc.
0'0" Cream granular bedded shaly dol.
0'0" [illegible]
0'0" [illegible]
0'0" [illegible]

(5) 4313-4324' Rec. 0'0"
0'0" [illegible]
0'0" [illegible]
0'2" [illegible]

(6) 4324-4337' Rec. 0'0"
0'0" [illegible]
2'0" [illegible]



COASTAL PET. CO.
RAGLAND NO. 1
WC, LEVY CO., FLORIDA.

COMPOSITE, RUNS 1 & 2

COASTAL PETROLEUM CO. #1 RAGLAND

LEGEND

CORES

(1) 1860-1870' Rec. 7'0"
7' 0" Lt. gray & tan medium xl. part granular mostly vuggy dolomite w/gypsum and black shaly streaks and trapped sulphur water.

(2) 2440-2460' Rec. 3'0"
3' 0" Crean v. fine xl. porous dolomite w/gypsum incl. & few lep molds.

(3) 2460-2480' Rec. 12'0"
12'0" Lt. brown fine xl. dolomite w/ anhydrite nod., gypsum cement, trace of carb., & many lep molds.

(4) 4247-4260' Rec. 11'6"
7' 0" Hd green gray v cal fine shale w/ pyrite, fish remains, & l's.
2' 0" Dk gray & tan, white speckled, part lam chalky shale w/trace of coarse sand, glauc. & pyrite.
1' 0" Hd lt gray f to crs sandy chalk w/fish remains, phosphate pellets and glauc.
0' 6" Gray irregular bedded shaly dol pyritic sand.
0' 6" Flakey dark gray micaceous fine "poker chip" shale.

(5) 4315-4324' Rec. 9'0"
8'10" Flakey dark gray micaceous fine "poker chip" shale w/fish scales.
0' 2" Very hard f to v crs sandy conglomerate w/dol and pyrite cement and find sandy dolomite pebbles up to 1".

(6) 4324-4337' Rec. 8'0"
0' 2" Very hard conglomerate as above.
2'10" Flakey dark gray micaceous fine "poker chip" shale.
1'10" Gray dolomitic med to v crs sand w/many dark gray shale pebbles. Fairly porous with salty taste.
5' 0" Soft v lt gray med to v coarse v porous sl dol sand. No show.

(7) 4337-4357' Rec. 0'8"
0' 8" Lt gray dolomitic med to v crs sandy conglomerate w/lt green f sdy dolomite, dark gray shale, and tan sandy dolomite pebbles & w/ phosphate pellets and sharks teeth.

(8) 4357-4377' Rec. 6'0"
0' 6" Dark gray sandy conglomerate as above w/pebbles up to 2".
5' 6" Lt green fine sandy dolomitic claystone part mottled yellow and maroon.

(9) 5725-5726½' Rec. 1'0"
0' 8" Very hard white quartzite w/poorly developed fractures. Bottom side rounded like a boulder.
0' 4" Hard lt gray med to v crs sandy conglomerate w/anhydrite cement and pebbles of lt grn & white quartzite, black pyritic clay shale, & varicolored clay.

(10) 5726½-5728½' Rec. 0'0"
(Fragment of cgl as above and pipe protector.)

(11) 5728½-5731½' Rec. 0'0"
(Fragments of pipe protector)

(12) 5731½-5743' Rec. 2'0"
2' 0" Hard white anhydritic fine to v crs sand w/irregular pockets of soft porous sand without anhydrite cement.

(13) 5790-5791½' Rec. 0'3"
0' 3" Maroon & white fractured quartzite w/trace of bright yellow clay on rounded side.

(14) 5791½-5795½' Rec. 4'0"
0' 8" Maroon, yellow brown, & white quartzite pebbles in sticky clay.
3' 4" Color laminated and mottled yellow to red clay w/limonite & haematite along irregular fractures.

(15) 5840-5850' Rec. 10'0"
10'0" Black very fine carb clay shale w/ pyrite in beds and along fractures, trace of fine mica, fossils poorly preserved. Plant remains, brachipods, and crinoid stems common.

W-1767
R. O. Vernon (Copied from field book, 9-15-59)

OWNER	: John Newell, LeCanto, Florida
LOCATION	: Approximately 7 mi. N of the PO at LeCanto, SW/cor. NW¼NW¼ sec. 4, T18S, R18E
COUNTY	: Citrus
ELEVATION	: MB. 55- .00' (H. T. Chittum, Jr., 3/1/49)
DRILLER	: Libby and Freeman, Leesburg, Fla.
STARTED	: July 9, 1948
COMPLETED	: July 16, 1948
CASING	: 82'5" of 4"
DEPTH	: 233'
HEAD	: 110' below the surface
YIELD	:
DRAWDOWN	:
USE	: Cattle water supply for ranch
QUALITY	: Fresh
REMARKS	: 25 samples, 0-233', were received from L. W. Mercer, Leesburg, Florida, by express collect on July 31, 1948

0-10, 10-20, 20-30, 30-40, 40-50, 50-60	SAND, tan, medium to fine quartz.

ALACHUA FORMATION

60-70	CLAY, tan to brown, waxy, and SAND as above, containing phosphorite and limestone nodules.

LOWER JACKSON - LOWER OCALA LIMESTONE

70-80	LIMESTONE, white to tan, hard, porous, chalky, phosphatized at top. One specimen Laganum ocalanum, one poor brachial and nothing else.
80-90	White to cream, chalky, granular elements, porous, soft limestone. Miliolids (rare), echinoid fragments, Periarchus fragments. Top Periarchus 85'.

LOWER JACKSON - PERIARCHUS ZONE

90-100, 100-110	LIMESTONE, cream, very granular, soft, porous, with abundant fragments of Periarchus and other echinoid. Rare smaller and eroded foraminifers of Amphistegina.

110-120	LIMESTONE, tan, finely granular to crystalline, granulated, with 60% quartz SAND.
120-130	LIMESTONE, tan, of 110-120', no sand and an occasional finely crystalline, porous, soft dolomite, occasional rolled Coskinolina.
130-140	DOLOMITE, brown, finely crystalline, very porous, soft.

MIDDLE EOCENE - AVON PARK LIMESTONE (Top 145')

140-150	DOLOMITE of 130-140', and a very carbonaceous, dark brown, platy, finely crystalline dolomite.
150-160	75% DOLOMITE above, and white to tan, chalky, porous, soft LIMESTONE. Coskinolina, Dictyoconus.
160-170	Some increase in limestone to 80% of sample.
170-180, 180-190, 190-200	LIMESTONE, light brownish green, purple tinted, soft, porous, Coskinolina, Dictyoconus, Lituonella. Coskinolina ( )N(subchambers) abundant. Zone A. Peronella fragments.
200-210, 210-220	Same, slightly dolomitized and smaller foraminifers abundant. Coskinolina N not noticed.
220-230	Very white, chalky, dense, soft LIMESTONE. Avone Park foraminifers.

WCi - 18S, 18E, 4 caa

OWNER: John Newell, Le Canto, Florida
LOCATION: App. 7 miles north of the post office at Le Canto, SW/cor of NW/4 NW/4 Sec. 4, T18S, R18E.
COUNTY: Citrus
ELEVATION: 113.55' ± .08 (H. T. Chittum, Jr., 3/1/49)
STARTED: July 9, 1948
COMPLETED: July 16, 1948
CASING: 82' 5" of 4"
DEPTH: 233'
DRILLER: Libby & Freeman, Leesburg, Florida (Branch office)
HEAD: 110' below the surface
YIELD:
DRAWDOWN:
USE: Cattle water supply for ranch
QUALITY: Fresh
REMARKS: 23 samples, from the surface to 233 feet, received by express collect from L. W. Mercer, Leesburg, Florida, July 31, 1948.

0-45	Surface sand
45-64	Sand
64-80	Clay
80-85	Lime
85-110	Lime
110-140	Lime
140-145	Lime
145-185	Dark lime
185-233	Lime

W-1767
R. O. Vernon (Copied from field book, 9-15-59)

OWNER	:	John Newell, LeCanto, Florida
LOCATION	:	Approximately 7 mi. N of the PO at LeCanto, SW/cor. NW$\frac{1}{4}$NW$\frac{1}{4}$ sec. 4, T18S, R18E
COUNTY	:	Citrus
ELEVATION	:	113.55± .08' (H. T. Chittum, Jr., 3/1/49)
DRILLER	:	Libby and Freeman, Leesburg, Fla.
STARTED	:	July 9, 1948
COMPLETED	:	July 16, 1948
CASING	:	82'5" of 4"
DEPTH	:	233'
HEAD	:	110' below the surface
YIELD	:	
DRAWDOWN	:	
USE	:	Cattle water supply for ranch
QUALITY	:	Fresh
REMARKS	:	23 samples, 0-233', were received from L. W. Mercer, Leesburg, Florida, by express collect on July 31, 1948

0-10, 10-20, 20-30, 30-40, 40-50, 50-60 — SAND, tan, medium to fine quartz.

ALACHUA FORMATION

60-70 — CLAY, tan to brown, waxy, and SAND as above, containing phosphorite and limestone nodules.

LOWER JACKSON - LOWER OCALA LIMESTONE

70-80 — LIMESTONE, white to tan, hard, porous, chalky, phosphatized at top. One specimen Laganum ocalanum, one poor brachial and nothing else.

80-90 — White to cream, chalky, granular elements, porous, soft limestone. Miliolids (rare), echinoid fragments, Periarchus fragments. Top Periarchus 85'.

LOWER JACKSON - PERIARCHUS BED

90-100, 100-110 — LIMESTONE, cream, very granular, soft, porous, with abundant fragments of Periarchus and other echinoid. Rare smaller and eroded foraminifers of Amphistegina.

110-120	LIMESTONE, tan, finely granular to crystalline, granulated, with 60% quartz SAND.
120-130	LIMESTONE, tan, of 110-120', no sand and an occasional finely crystalline, porous, soft dolomite, occasional rolled Coskinolina.
130-140	DOLOMITE, brown, finely crystalline, very porous, soft.

MIDDLE EOCENE - AVON PARK LIMESTONE (Top 145')

140-150	DOLOMITE of 130-140', and a very carbonaceous, dark brown, platy, finely crystalline dolomite.
150-160	75% DOLOMITE above, and white to tan, chalky, porous, soft LIMESTONE. Coskinolina, Dictyoconus.
160-170	Some increase in limestone to 80% of sample.
170-180, 180-190, 190-200	LIMESTONE, light brownish green, purple tinted, soft, porous, Coskinolina, Dictyoconus, Lituonella. Coskinolina (?)X(subchambers) abundant. Zone A. Peronella fragments.
200-210, 210-220	Same, slightly dolomitized and smaller foraminifers abundant. Coskinolina X not noticed.
220-230	Very white, chalky, dense, soft LIMESTONE. Avon Park foraminifers.

W-1767
R. O. Vernon (Copied from field book, 9-15-59)

OWNER	: John Newell, LeCanto, Florida
LOCATION	: Approximately 7 mi. N of the PO at LeCanto, SW/cor. NW$\frac{1}{4}$NW$\frac{1}{4}$ sec. 4, T18S, R18E
COUNTY	: Citrus
ELEVATION	: 113.55± .08' (H. T. Chittum, Jr., 3/1/49)
DRILLER	: Libby and Freeman, Leesburg, Fla.
STARTED	: July 9, 1948
COMPLETED	: July 16, 1948
CASING	: 82'5" of 4"
DEPTH	: 233'
HEAD	: 110' below the surface
YIELD	:
DRAWDOWN	:
USE	: Cattle water supply for rance
QUALITY	: Fresh
REMARKS	: 23 samples, 0-233', were received from L. W. Mercer, Leesburg, Florida, by express collect on July 31, 1948

0-10, 10-20, 20-30, 30-40, 40-50, 50-60	SAND, tan, medium to fine quartz.

ALACHUA FORMATION

60-70	CLAY, tan to brown, waxy, and SAND as above, containing phosphorite and limestone nodules.

LOWER JACKSON - LOWER OCALA LIMESTONE

70-80	LIMESTONE, white to tan, hard, porous, chalky, phosphatized at top. One specimen Laganum ocalanum, one poor brachial and nothing else.
80-90	White to cream, chalky, granular elements, porous, soft limestone. Miliolids (rare), echinoid fragments, Periarchus fragments. Top Periarchus 85'.

LOWER JACKSON - PERIARCHUS BED

90-100, 100-110	LIMESTONE, cream, very granular, soft, porous, with abundant fragments of Periarchus and other echinoid. Rare smaller and eroded foraminifers of Amphistegina.

110-120	LIMESTONE, tan, finely granular to crystalline, granulated, with 60% quartz SAND.
120-130	LIMESTONE, tan, of 110-120', no sand and an occasional finely crystalline, porous, soft dolomite, occasional rolled Coskinolina.
130-140	DOLOMITE, brown, finely crystalline, very porous, soft.

MIDDLE EOCENE - AVON PARK LIMESTONE (Top 145')

140-150	DOLOMITE of 130-140', and a very carbonaceous, dark brown, platy, finely crystalline dolomite.
150-160	75% DOLOMITE above, and white to tan, chalky, porous, soft LIMESTONE. Coskinolina, Dictyoconus.
160-170	Some increase in limestone to 80% of sample.
170-180, 180-190, 190-200	LIMESTONE, light brownish green, purple tinted, soft, porous, Coskinolina, Dictyoconus, Lituonella. Coskinolina (?)X(subchambers) abundant. Zone A. Peronella fragments.
200-210, 210-220	Same, slightly dolomitized and smaller foraminifers abundant. Coskinolina X not noticed.
220-230	Very white, chalky, dense, soft LIMESTONE. Avone Park foraminifers.

W-1791
R. O. Vernon - Copied from
Field Book, 9/15/59

OWNER	:	J. Croft and B. Croft, Hernando, Fla.
LOCATION	:	8 Miles N of Lecanto, sec. 32, T17S, R18E
COUNTY	:	Citrus About 25'W & 20'S of NE cor. sec.
ELEVATION	:	107.95'± .08 (H. T. ChittumJr., 3/1/49)**
CASING	:	110'3" of 4"; 99'9" of 3"
DEPTH	:	243'
DRILLER	:	Libby & Freeman, P. O. Box 181, Leesburg,
HEAD	:	115' below the surface
YIELD	:	
DRAWDOWN	:	
STARTED	:	July 21, 1948
COMPLETED	:	August 21, 1948
USE	:	Supply for livestock
QUALITY	:	Soft
REMARKS	:	25 samples, 0-250', received from Libby & Freeman, Leesburg, Florida, by express collect Sept. 2, 1948

** The elevation was run from the RR crossing on U. S. #19 at the Crystal River Rock Company road.

PLEISTOCENE

0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90	SAND, fine to medium, clear quartz, discolored by iron stain.

PLEISTOCENE TO MIOCENE
ALACHUA FORMATION

90-100	CLAY, tan, very sandy, containing phosphate nodules and gravel.
100-110	SAND and 0-10'.
110-120	MARL, tan, sandy, phosphorite up to pebble grains.

OLIGOCENE - SUWANNEE LIMESTONE

120-130, 130-140	LIMESTONE, very hard, dense, cryptocrystalline. Coskinolina.
140-150, 150-160, 160-170	LIMESTONE, as above and 70-80% fine to medium quartz SAND.

170-180	LIMESTONE and SAND as above and large fragments of silicate. White limestone containing impressions that could not be assigned.
180-190	SAND and only a few LIMESTONE fragments.
190-200, 200-210, 210-220	About 50-60% quartz SAND and 40-50% cream, granular, porous, soft LIMESTONE containing numerous Coskinolina floridana.
220-230, 230-240	Same increase in limestone.
240-250	Largely fine to medium quartz SAND, reddish, waxy, blocky clay, and fragments of LIMESTONE above and silicified Peronella sp. cf. P. dalli.

NOTE: This well is either entirely in the Suwannee, the Avon Park, or the Suwannee overlies the Avon Park with no intermediate beds. W-1767 favors the whole being Avon Park, but the lithology in the upper hole and the presence of Peronella in the last sample favors Suwannee overlap. If overlapped I would pick the top of the Avon Park at 190'.

August 27, 1948

WCi - 17S, 18E, 32666

OWNER: J. Croft and B. Croft, Hernando, Florida
LOCATION: 8 miles north of Lecanto, Sec. 32, T17S, R18E, about 25' west and 20' south of NE/ cor.
COUNTY: Citrus
ELEVATION: 107.95' ± .08 *
CASING: 110' 3" of 4"; 88' 9" of 3"
DEPTH: 243'
STARTED: July 21, 1948
COMPLETED: August 21, 1948
DRILLER: Libby & Freeman, P. O. Box 181, Leesburg Florida
HEAD: 115' below the surface
YIELD:
DRAWDOWN:
USE: Supply for livestock
QUALITY: Soft
REMARKS: 25 samples, from 0 to 250', received by expres collect, from Libby & Freeman, Leesburg, Fla., September 2, 1948.

*The elev. was run from the R.R. Crossing on U. S. Rt. #19 at the Crystal River Rock Company Road.

0-22	Sand
22-43	Red clay
43	White sand
43-100	Sand
100-117	Clay
117-121	Clay
121-	Clay
121-130	Clay and rock
130	Clay
130-143	Clay
143-165	Sand
165-168	Sand
168-180	Sand
180-188	Sand
188	Sand
188-202	Sand
202-224	Sand lime
224-240	Lime
240-243	Lime
243	Lime

W-1791
R. O. Vernon - Copied from
Field Book, 9/15/59

OWNER	:	J. Croft and B. Croft, Hernando, Fla.
LOCATION	:	8 Miles N. of Lecanto, sec. 32, T17S, R18E
COUNTY	:	Citrus About 25'W & 20'S of NE cor. sec.
ELEVATION	:	107.95'± .08 (H. T. ChittumJr., 3/1/49)**
CASING	:	110'3" of 4"; 99'9" of 3"
DEPTH	:	243'
DRILLER	:	Libby & Freeman, P. O. Box 181, Leesburg,
HEAD	:	115' below the surface
YIELD	:	
DRAWDOWN	:	:
STARTED	:	July 21, 1948
COMPLETED	:	August 21, 1948
USE	:	Supply for livestock
QUALITY	:	Soft
REMARKS	:	25 samples, 0-250', received from Libby & Freeman, Leesburg, Florida, by express collect Sept. 2, 1948

** The elevation was run from the RR crossing on U. S. #19 at the Crystal River Rock Company road.

PLEISTOCENE

0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90	SAND, fine to medium, clear quartz, discolored by iron stain.

PLEISTOCENE TO MIOCENE
ALACHUA FORMATION

90-100	CLAY, tan, very sandy, containing phosphate nodules and gravel.
100-110	SAND and 0-10'.
110-120	MARL, tan, sandy, phosphorite up to pebble grains.

OLIGOCENE - SUWANNEE LIMESTONE

120-130, 130-140	LIMESTONE, very hard, dense, cryptocrystalline. Coskinolina.
140-150, 150-160, 160-170	LIMESTONE, as above and 70-80% fine to medium quartz SAND.

170-180	LIMESTONE and SAND as above and large fragments of silicate. White limestone containing impressions that could not be assigned.
180-190	SAND and only a few LIMESTONE fragments.
190-200, 200-210, 210-220	About 50-60% quartz SAND and 40-50% cream, granular, porous, soft LIMESTONE containing numerous Coskinolina floridana.
220-230, 230-240	Same increase in limestone.
240-250	Largely fine to medium quartz SAND, reddish, waxy, blocky clay, and fragments of LIMESTONE above and silicified Peronella sp. cf. P. dalli.

NOTE: This well is either entirely in the Suwannee, the Avon Park, or the Suwannee overlies the Avon Park with no intermediate beds. W-1767 favors the whole being Avon Park, but the lithology in the upper hole and the presence of Peronella in the last sample favors Suwannee overlap. If overlapped I would pick the top of the Avon Park at 190'.

W-1847
(R. O. Vernon)
January 19, 1949

OWNER	:	Humble Oil & Refining Company
FARM NAME	:	C. S. Dean No. 1
LOCATION	:	1500' N & 300' E from SW/cor of Sec. 1, T17S, R17E, about 6 miles SW of Dunnellon
COUNTY	:	Citrus
ELEVATION	:	33' (by Alt., HO&RFC); 29.61'± .01' (H. Chittum)
DEPTH	:	1193' (last sample)
USE	:	Core Test
REMARKS	:	January 12, 1949 - flowing sulphur water.

120 cuttings from 10 to 1193' and 10 cores, from core No. 1 at 120-125 to a core at 1035-1036, received from Humble Oil & Refining Company, by Walton Jones and Bernard Eaton, December 21, 1948.

RECENT to PLEISTOCENE

10-20, 20-30 — Fine to medium, clear, unconsolidated, quartz sand.

ALACHUA FORMATION?

30-40 — Sand as above, peat, and fragments of phosphorite.

40-50 — Light brown to tan, porous, finely crystalline dolomite and limestone.

MIDDLE EOCENE: Avon Park limestone

50-60 — Light gray to cream, chalky, fairly porous, soft limestone. *Coskinolina floridana*, *Dictyoconus cookei*

60-70 — Same, abundantly fossiliferous, fossils above, *Camacuaya perplexa*, *Valvulina cushmani*, *Lituonella floridana*, and others.

ZONE A (?)

70-80 — Limestone above, and brownish-gray to tan, crystalline, hard dolomite. *Dictyoconus cookei* common also a *Coskinolina* or *Orbitolina* with 2-3 sub-chamberlets. *Discorinopsis gunteri*.

90-100 — Limestone as 50-60, *Peronella dalli*.

100-110, 110-120 — Cream, soft, chalky limestone, discolored brown and with Avon Park foraminifers. Some cavings.

120-125(cutting)
120-125(core) — Light gray to cream, dense, soft, chalky limestone.

125-130 — Same as 100-110.

130-140 — Same, and 90% tan, hard, finely crystalline, porous dolomite.

140-143(core) — Same as 120-125, but crypto-crystalline.

143-150, 150-155 — Same as 130-140.

159-160(core)
160-166(cutting — Light brown, soft, very porous, finely crystalline, "silty" dolomite.

172-173(core) — Light brown, sugary, finely crystalline, porous, hard dolomite.

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(R. O. Vernon)
January 19, 1949

ZONE A

180-190	Cream to tan, chalky, soft limestone with medium gray, white-specked, porous limestone fragments. Orbitolina (2 sub-chamberlets)
183-184 (core)	Tan to cream, dense, hard, crypto-crystalline dolomite.
196-198 (core)	Same, and tan, finely crystalline, "silty", soft dolomite.
198-210, 210-220, 220-230, 230-240, 240-250	Tan to brown, finely crystalline, dense, porous streaked, hard dolomite.
250-260, 260-270, 270-280	Same, plus fragments of deep brownish-gray, dense, crypto-crystalline dolomite becoming somewhat porous with depth.
280-290, 290-300, 300-310	Dolomite of 198-210, streaks of medium gray, dense dolomite, and crystalline quartz.
310-320, 320-330, 330-340, 340-350, 350-360, 360-370, 370-380	Tan, finely crystalline, porous dolomite and dense, crypto-crystalline, gray to tan dolomite, and streaks of light gray, chalky dolomite. Abundant Fabularia molds (1st noted 350-360).
380-390, 390-400, 400-410	Same, trace to much crystalline quartz.
410-420, 420-430	Dolomite above and dark brownish-gray, crypto-crystalline, porous dolomite with carbonaceous seams. Much crystalline quartz.
430-440, 440-450, 450-460, 460-470, 470-480	Light to dark brownish-gray, finely crystalline to crypto-crystalline, porous, hard dolomite. Traces of crystalline quartz, a brownish clay, and peat specks.
480-490, 490-500, 500-510, 510-520	Tan, finely crystalline to crypto-crystalline, porous to dense, hard dolomite, showing dolomitic crystal growth in pores. Some cavings(?) Orbitolina(?) molds.
520-530, 530-540, 540-542	Cream to tan, porous, finely crystalline to crypto-crystalline, hard dolomite.
	MIDDLE EOCENE: Top of Gypsum (542 to 570)
570-580	Tan to cream, rather dense, flaky, hard, crypto-crystalline dolomite. Selenite.
580-590	Dolomite above with considerable brown to black, fissile clay.
590-600	Dark brownish-gray, porous, finely crystalline, hard dolomite - carbonaceous seams.

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January 19, 1949

600-610, 610-620, 620-630 — Dolomite above, impregnated with selenite. Peat present and increased % with depth.

630-640, 640-650, 650-660 — Same as 580-590 with cavings(?)

ZONE A(?)

660-670, 670-680 — Tan to cream, soft, porous, cryptocrystalline dolomite. Some cavings(?) Many honey-combs of what is apparently Dictyoconus cooke1 large and and flat, and a Coskinolina or Orbitolina with 2-3 sub-chamberlets.

680-690, 690-700 — Same dolomite as above, finely divided, considerable quartz and gypsum.

700-710 — Same dolomite and brown, fissile clay, and dark brown, very carbonaceous, dense, hard dolomite.

710-720, 720-730 — Flaky, hard, dense dolomite and cavings.

730-740, 740-750, 750-760, 760-770, 770-780 — Cream to brown, porous, soft dolomite, more or less cavings.

780-790, 790-800 — Cream to tan, hard, dense dolomite and peat (25-75%).

800-810(2 spls.) — Same as 730-740.

810-820(2 spls), 820-830, 830-840, 840-850, 850-860, 860-870, 870-880 — Finely granulated, brown to tan, finely crystalline, porous, soft dolomite - some selenite and crystalline quartz.

875-876(core) — Tan to brown, sugary, finely crystalline, rather dense dolomite. Some gypsum.

880-890, 890-900, 900-910, 910-920, 920-930 — Same as 810-820.

926-927(core) — Dark brownish-gray, coarsely crystalline, dense, soft dolomite impregnated with gypsum.

930-940(2 spls), 940-950, 950-960, 960-970, 970-980, 980-990 — Same as 810-820. Some samples show much quartz and cavings.

989-990(core) — Brown, white specked, coarsely crystalline, dense, dolomitized limestone retaining some original limestone (white, granular, chalky), impregnated with gypsum.

990-1000, 1000-1010, 1010-1020, 1020-1030, 1030-1040 — Same as 810-820.

1035-1036(core)	Cream, chalky, porous, soft, miliolid limestone impregnated with gypsum and more porous. Amphistegina lopestriegi (?)
1040-1050, 1050-1060, 1060-1070	Same as 810-820.
1070-1081(core)	Same as 1035-1036 Amphistegina lopestriegi common
1070-1080, 1080-1090, 1090-1100, 1100-1110, 1110-1120, 1120-1130, 1130-1140, 1140-1150, 1150-1160, 1160-1170, 1170-1180, 1180-1190, 1190-1193	Same as 810-820.

R-1343
(M. O. Vernon)
January 19, 1949

COMPANY : Humble Oil & Refining Company
FARM NAME : A. B. Cowake No. 1
LOCATION : 200' N & 1240' E from S.W. cor of Sec. 11, T17S, R17E
COUNTY : Citrus
ELEVATION : 46' (Humble Altimeter) Al.65'± (H. Chitty)
DEPTH : 1095-1105' core no. 46 (Jack Arnold)
USE : Core Test
REMARKS : 43 cuttings from 0 to 434' and 20 cores from core No. 1 at 27-30' to core No. 20 at 1095-1105', received from Humble Oil & Refining Company, by Melvin Jones and Bernard Mason, December 21, 1948.

	PLEISTOCENE to RECENT
0-10, 10-20	Tan, slightly argillaceous, loose, medium to fine quartz sand.
	Alachua formation(?)
20-30	Sand above and phosphorite in cream, phosphatic clay matrix.
	UPPER EOCENE: Lower Jackson; Periarchus limestone
27-30(core)	Tan and cream mottled, very porous, hard, chalky limestone. Many molds of broken molluscs and barnacle plates.
30-35, 40-49	Same as 20-30.
40-45(core)	Brown, very porous, crypto-crystalline, hard dolomite. Many molds of foraminifers.
	MIDDLE EOCENE: Avon Park limestone
55-60	Light brownish-gray, purple-tinted, dense, soft, chalky, miliolid limestone with carbonaceous flakes. Coskinolina, Lituonella remains.
70-75(core)	Same, somewhat denser.
85-95(core) 105-110(core)	Light brownish-gray, purple-tinted, chalky, miliolid, soft limestone - Many Avon Park foraminifers. Peneroplid large Carbonaceous flakes
110-120, 120-130, 130-140	Limestone above grading to dark brownish-gray. Foraminifers common.
140-150	Limestone above and 80% tan, dense, crypto-crystalline dolomite.
145-146(core)	Dense, hard, crypto-crystalline limestone, cream to light brown.
150-160, 160-170, 170-180	Light brown, finely crystalline, soft, sugary, porous dolomite.
180-183(core) 184-190	Light brownish-gray, hard, dense with porous streaks, finely crystalline dolomite.

193-200(core)	Brown, very porous, very granular, soft, crypto-crystalline to finely crystalline dolomite.
193-200(cutting) 200-210	Same as 180-183.
210-220, 220-230, 230-240, 240-250, 250-260, 260-270, 270-280, 280-290, 290-300	Cream to dark brown, chalky, soft limestone and dolomite and finely crystalline to dense crypto-crystalline dolomite.
310-320, 320-330, 330-340, 340-350	Cream, dense, soft, chalky dolomite; dark brown, porous, soft, chalky dolomite; cream to tan, finely crystalline, porous dolomite, and few crystalline quartz traces.
350-360, 360-370, 370-380, 380-390, 390-400	Cream to tan, soft, porous, crypto-crystalline dolomite and medium gray, dense (nodular) to porous, hard dolomite. Trace of crystalline quartz. <u>Fabularia</u> molds.
400-410, 410-420, 420-430	Tan to brownish-gray, porous, crypto-crystalline to chalky, soft dolomite. Finely crystalline, brown, sugary seams, traces of quartz.
430-440	Dolomite above, trace crystalline quartz, and much light brown, crypto-crystalline to sub-granular, porous, hard dolomite containing a light to deep brown, hard, carbonaceous chert.
440-450, 450-460	Same, considerable peat; light brown, porous, flaky, finely crystalline, hard dolomite, with peat flakes. Traces crystalline quartz.
460-470	Same, plus a dark brown, more crystalline, denser dolomite.
	<u>MIDDLE EOCENE</u>: <u>Lake City limestone</u> - Top of <u>Gypsum</u>
460-470, 470-480, 480-490, 490-494	Cream to brown, sub-granular to crystalline, hard, flaky dolomite with selenite.
505-515(core)	Tan, finely crystalline, hard, porous dolomite impregnated with gypsum.
525-535(core)	Largely gypsum with dolomite above in thin seams.
545-555(core)	Tan, dense, finely crystalline, hard dolomite completely impregnated with gypsum.
565-575(core)	Same but very porous.
585-595(core,top)	Large "cone" molds.
585-595(core, bottom)	Light gray to tan, chalky, crypto-crystalline, dense, hard dolomite. One large "cone" section 5 to 6 mm in Θ noted.

605-616(core)	Light brown, hard, dense, finely crystalline dolomite with cross-sections of "cones".
625-635(core)	Sand cavings (?)
645-655(core)	Light brown, finely crystalline, hard, porous dolomite with peat flakes.
665-675(core, top)	Dolomite above, browner, selenite impregnated.
665-675(core, midule)	Tan, dense, finely crystalline, hard dolomite, selenite impregnated.
665-675(core, bottom)	Light brown, porous, hard, finely crystalline dolomite. Sections and molds of "cones" and peat seams.
685-695(core)	Dolomite of 665-675 as seams in gypsum.
705-715(core)	Dolomite of 685-695 and light brown, somewhat laminated, dense, soft, chalky dolomitic limestone.
725-735(core)	Tan to cream, dense, finely crystalline, hard dolomite, with peat flakes and seams.
745-755(core), top	Tan to brown, porous, hard, finely crystalline dolomite. Many "cone" molds.
745-755(core, bottom	As above, light gray and denser.
765-775(core)	Same as 745-755.
785-795(core)	Cream, porous, crypto-crystalline to finely crystalline, hard dolomite.
805-815(core)	Brown, crystalline, dense, hard dolomite with greenish-gray nodules (and or) seams.
825-835(core) 845-855(core)	Same, green specks, selenite impregnated in parts.
865-875(core) top	Dark brown, very porous, hard, crystalline, gypsum impregnated dolomite.
865-875(core), bottom	Same, denser.
885-895(core)	Same as 865-875, peat flakes.
895-905(core)	Light brown, crystalline, dense, hard dolomite.
915-925(core) 935-945(core)	Brownish-gray mottled, dense, hard, crystalline dolomite. Gypsum impregnated and with "cones" molds.

W-1848
(R. C. Vernon)
January 19, 1949

955-965(core)	Same, darker brown and with many peat seams.
975-985(core)	Dark brown, crystalline, dense, hard dolomite, gypsum impregnated and retaining much of the original limestone and its fauna. Coskinolina, Dictyoconus
995-1005(core)	Same as 805-815.
1015-1025(core)	Light brown, grey-specked, dense, crystalline, hard dolomite.
1035-1045(core)	Dark brown, coarsely crystalline, dense, hard dolomite, impregnated with gypsum.
1055-1065(core) part 1	Medium brown, porous, soft, crystalline, sugary dolomite.
1055-1065(core) part 2	Tan to medium-brown, coarsely crystalline, dense, hard dolomite.
1055-1065(core), part 3	Same, browner.
1075-1085	
1095-1105(core) parts 1, 2 & 3	Medium brown, coarsely crystalline, sugary, slightly porous, hard dolomite, gypsum impregnated.

OWNER	: J. M. Douglas, Weirsdale, Florida
LOCATION	: Weirsdale, Sec. 21, T17S, R24E, SE$\frac{1}{4}$ NE$\frac{1}{4}$
COUNTY	: Marion
ELEVATION	: 154.88' plus or minus .01 (H. T. Chittum, Jr., 5/26/49)
STARTED	: March 25, 1949
COMPLETED	: April 1, 1949
CASING	: 223' 7" of 10"
DEPTH	: 415'
DRILLER	: Layne-Atlantic Co., Orlando, Florida
HEAD	: 101' 6"
YIELD	: 1000 GPM
DRAWDOWN	: 10'
USE	: Irrigation
QUALITY	: Fresh
REMARKS	: 80 samples from 0 to 415' were received by Great Southern Trucking Company from Layne-Atlantic, Orlando, April 11, 1949.

0- 5'	Sand, light gray, fine grained, black minerals.
5'- 10'	Sand, light orange, very fine to medium. This sample contains brown dolomitic limestone and other lithologic units apparently out of place.
10'- 15'	Sand, light orange, fine to coarse. Small amount heavy minerals.
15'- 20', 20'-25', 25'-30', 30'-35', 35'-40', 40'-45', 45'-50',	Same as 10'-15'.
50'- 55'	Sand, white, fine to very coarse, clear to frosted quartz.
55'- 60'	Sand, white, very fine to medium, micaceous.
60'- 65', 65'-70', 70'-75', 75'-80', 80'-85', 85'-90', 90'-95',	Same as 55'-60'.
95'-100'	Limestone, white, chalky, silty, grains and pebbles brown phosphorite (?). Sand, clear quartz, fine to medium.
100'-105'	Same as 95'-100'.
105'-110'	Limestone, white, chalky, very clayey, porous and permeable.
110'-115'	Limestone, as in 105'-110', sandy. Limestone, tan, dolomitic ?, polished grains and pebbles, microcrystalline.
115'-120'	Limestone, light gray, microcrystalline, soft, abundant sand grains, pebbles polished dolomite? or phosphorite?
120'-125'	Same as 115'-120'.
125'-130'	Clay, gray-green, very sandy, sand, clear quartz, fine to medium. Limestone, white, chalky, soft.
130'-135'	Same as 125'-130'.
135'-140'	Clay, sand, limestone as in 125'-130'. Limestone, gray, sandy. Polished brown pebbles dolomite? (phosphorite?).
140'-145'	Sandstone, gray-green, soft, friable, matrix of clay and calcite.
145'-150'	Limestone, white to very light gray, microcrystalline, hard, dense, sandy patches. Sand, fine to very fine. Chert, brown, clear.
150'-155'	Same as 145'-150'.
155'-160'	Dolomite, brown, microcrystalline, irregular porosity.
160'-165'	Limestone, white, chalky, sandy, porous and permeable. Sand, clear quartz, very fine to fine.

165'-170'	Limestone, white, chalky, porous and permeable.
170'-175'	Limestone as in 160'-165', brown phosphorite? grains and pebbles.
175'-180'	Sandstone, very light gray, calcareous cement, fine grained. Chert, brown, translucent.
180'-185'	Marl, very light gray, soft. Sandstone, as in 175'-180'.
185'-190'	Sand, very fine to medium, clear quartz. Limestone, white, chalky, fairly hard. Phosphorite, black and brown pebbles. Sandstone, white to tan, calcareous matrix, fine grained.
190'-195'	Same as 185'-190'.
195'-200'	Sand, very fine to fine, clear quartz.
200'-205'	Sandstone, light gray, very calcareous and clayey, fine grained.
205'-210'	Sandstone, as in 200'-205'. Sand, fine to very fine. Limestone, cream, microcrystalline, dense.
210'-215'	Limestone, very light gray, chalky, fairly soft, sandy. Sand, clear quartz, fine to very fine.
215'-220'	Sandstone, very light gray, fine grained, matrix of calcareous clay. Limestone, white, chalky, soft.
220'-225'	Marl, light gray, grains black mineral. Fragments recrystallized pelecypod shells.
225'-230'	Marl and pelecypod fragments as in 220'-225'. Sand, fine to medium. Dolomite, finely crystalline.
230'-235'	Same as 225'-230'.
235'-240'	Sandstone, light gray, fine and medium grained, calcareous cement. Marl, light gray, dense.
240'-245'	Same as 235'-240', with brown and black phosphorite pebbles.
245'-250'	Sand, very fine to medium, clear quartz. Limestone, light gray, marly, with patches fine sand, fair porosity. Small amount limestone, white, chalky, soft.
250'-255'	Limestone, very light gray, chalky, hard, porous and fairly permeable. Masses of light yellow calcite. Sand, fine grained, clear quartz.
255'-260'	Limestone, white, chalky, sandy, fairly hard. Sand, clear quartz, fine to medium. Grains and pebbles brown phosphorite.
260'-265'	No sample.
265'-270'	Limestone, marly, very light gray, slight porosity and permeability.
270'-275'	Limestone, white, pelletal and fragmental, chalky matrix, porous and permeable. Trace of fine clear quartz sand and brown phosphorite grains. Nummulites, Amphistegina?, fragments echinoids and bryozoa.
275'-280'	Limestone, white, fragmental, porous chalky matrix, abundant Lepidocyclina.
280'-285'	Same as 275'-280'. Fragments pelecypods. Nummulites, Lepidocyclina.

285'-290', 290'-295', 295'-300', Same as 275'-280', abundant Lepidocyclina.

300'-305'	Same as 275'-280'. Trace fine clear quartz sand.
305'-310'	Same as 275'-280'.
310'-315'	Limestone, cream, pelletal and fragmental in fairly loose chalky matrix, porous and permeable. Nummulites, fragments bryozoa, Lepidocyclina.
315'-320'	Same as 310'-315', with fragments echinoids and pelecypods.
320'-325'	Same as 310'-315', with fragments echinoids, Lepidocyclina.
325'-330'	Same as 310'-315', fragments echinoids, bryozoa, pelecypods.
330'-335'	Same as 310'-315'.
335'-340'	Same as 310'-315'.
340'-345'	Same as 310'-315', echinoid fragments.
345'-355'	No sample.
355', 365'	Same as 310'-315'.
370'	Limestone, white, chalky, porous. Dolomite, brown, partially replaced by gray-white silica.
375', 380'	Same as 370'.
385'	Limestone, white, chalky, porous, pelecypod and echinoid fragments. Limestone, light gray, silty, pelecypod molds. Dolomite, brown, finely crystalline, vesicular porosity.
390'	Same as 385'.
395'	Same as 385'.
400'	Dolomite, tan, microcrystalline, vesicular porosity.

405', 410', 415', Same as 400'.

OWNER	:	Humble Oil & Refining Co.
FARM NAME	:	C. E. Robinson et ux, No. 1 (Permit No. 105)
LOCATION	:	Center of NE/4 NE/4, Sec. 19, T16S, R17E, 6 miles south of Lebanon Station
COUNTY	:	Levy
ELEVATION	:	58' DF; 46.00' Grd. (Schl. Riley's)
STARTED	:	May 16, 1949
COMPLETED	:	August 20, 1949
CASING	:	26" @82' w/150 sx; 13-3/8" @1412' w/500 sx
DEPTH	:	4,609' in quartzite
DRILLER	:	Sunnyland Contracting Co.
USE	:	Test for oil - dry and abandoned
REMARKS	:	*Att. DST 4118-30; 1/4" T&B; open 3-1/2 hours, pipe parted. TD 4130. Fishing for drill pipe. *(Dixie Geol. Service, 6-30-49) 425 cuttings frm. 125 to 4370' received from HORC, by W. B. Jones and J. C. Simpson, Nov. 25, 1949. Cores from the No. 1 @ 4005-4010- to 79 @ 4575-4609', were received from HORC by Jones and Simpson, Jan. 4, 1950. Driller's log 388 to 4609' Schl. log 82-4609'

Dup. Smpls. & Cores in wrhs
4-15-75

388	Dolomite
653	Dolomite & lime
661	Lime, dolomite, lignite
678	Dolomite & lime
814	Dolomite
903	Dolomite & lime
943	Lime & lignite
1039	Lignite, lime, dolomite
1101	Dolomite & lignite
1125	Lime
1149	Dolomite & lignite
1300	Dolomite & lime
1340	Lime & lignite
1415	Lime, sandy streaks
1555	Dolomite, lime & anhydrite
1642	Dolomite sandy streaks
1715	Lime, sand & anhydrite
1828	Dolomite, lime & streaks sand
2050	Dolomite & sand
2150	Dolomite, anhydrite & strks. sand
2425	Dolomite & sand
2683	Sand, dolomite & anhydrite
2734	Dolomite & lime
2807	Dolomite, anhydrite, chalky
3015	Dolomite, streaks chalk
3242	Sand & chalk
3491	Chalk
3600	Chalk, dolomite & sand
3622	Chalk
3811	Chalk, shale
3905	Chalk
4005	Chalky lime & sand
4050	Sand
4052	Hard sandy lime
4080	Sandy lime & shale
4115	Green shale
4130	Sand
4184	Sandy shale, gray
4206	Green shale
4220	Shale
4275	Green shale
4320	Soft sand
4328	Sand
4344	Hard shale
4375	Igneous rock

COMPANY	:	Humble Oil & Refining Co.
OWNER	:	C. E. Robinson
LOCATION	:	Cen. NE$\frac{1}{4}$ NE$\frac{1}{4}$ Sec. 19, T16S, R1
COUNTY	:	Levy
ELEVATION	:	56.4' D.F.
COMPLETED	:	8/18/49
DEPTH	:	4609'
REMARKS	:	Samples almost complete, Electric Log available

(CHEN 1963)

0	30	MIOCENE OR YOUNGER, (No OCALA GROUP)
30	540	AVON PARK LIMESTONE
540	1190	LAKE CITY LIMESTONE
1190	1700	OLDSMAN LIMESTONE
1700	2370	CEDAR KEY LIMESTONE
2370	2915	UPPER CRETACEOUS (LAWSON LIMESTONE)
2915		UPPER CRETACEOUS (TAYLOR LIMESTONE)

0	30	MIOCENE OR YOUNGER
30	140	Highly fossiliferous Limestone (Biosparite)
140	150	DOLOMITE (20%) fossiliferous Limestone
150	210	DOLOMITE, very fine to fine crystalline
210	390	CALCITE (20%) fossiliferous DOLOMITE, microcrystalline
390	430	CALCITE (10%) DOLOMITE, microcrystalline
430	460	CALCITE (30%) DOLOMITE, microcrystalline
460	470	DOLOMITE, very fine to crystalline
470	520	DOLOMITE, fine crystalline
520	545	CALCITE (10%) DOLOMITE, microcrystalline

545	550	DOLOMITE (30%) Limestone with carbonaceous and laminated
550	570	CALCITE (10%) DOLOMITE, microcrystalline
570	595	GYPSIFEROUS (10%) DOLOMITE, very fine crystalline
595	645	DOLOMITE, very fine crystalline
645	700	GYPSIFEROUS (10%) DOLOMITE, very fine crystalline
700	710	DOLOMITE, very fine crystalline
710	720	DOLOMITE, Microcrystalline
720	820	DOLOMITE, very fine crystalline
820	860	DOLOMITE, very fine to microcrystaline, slightly gypsiferous
860	900	DOLOMITE, fine crystalline
900	910	Black Peat
910	920	DOLOMITE, microcrystalline
920	950	GYPSIFEROUS (10%) DOLOMITE, very fine crystalline
950	970	DOLOMITE, very fine crystalline
970	1010	GYPSIFEROUS (10%) DOLOMITE, very fine to microcrystalline
1010	1035	DOLOMITE, very fine crystalline
1035	1060	GYPSIFEROUS (10%) DOLOMITE, very fine crystalline
1060	1085	DOLOMITE, very fine crystalline
1085	1100	GYPSIFEROUS (10%) DOLOMITE, very fine crystalline
1100	1115	DOLOMITE, very fine crystalline
1115	1160	GYPSIFEROUS (10%)DOLOMITE, very fine crystalline
1160	1190	DOLOMITE, very fine crystalline
1190	1210	DOLOMITE (20%) fossiliferous Limestone
1210	1270	Fossiliferous Limestone

1270	1410	Fossiliferous Limestone with Heterostegina, Cosk, etc.
1410	1445	DOLOMITE, very fine to fine crystalline, slightly gypsiferous
1445	1460	DOLOMITE, very fine to fine crystalline
1460	1475	DOLOMITE, very fine to fine crystalline, slightly gypsiferous
1475	1515	DOLOMITE, very fine to crystalline
1515	1570	DOLOMITE, as above with slightly gypsiferous
1570	1610	DOLOMITE, very fine crystalline
1610	1630	DOLOMITE, microcrystalline
1630	1670	DOLOMITE, very fine crystalline, slightly gypsiferous
1670	1685	DOLOMITE, very fine crystalline
1885	1700	DOLOMITE, as above, slightly gypsifeous
1700	1790	DOLOMITE, microcrystalline to very fine crystalline, gray-brown
1790	1800	DOLOMITE, very fine crystalline
1800	1830	DOLOMITE, microcrystalline to very fine crystalline
1830	1900	DOLOMITE, microcrystalline
1900	1975	Fossiliferous DOLOMITE, microcrystalline, forams as Borelis, et
1975	1990	Fossiliferous DOLOMITE, as above, slightly gypsiferous
1990	2010	GYPSIFEROUS (10%) fossiliferous DOLOMITE, microcrystalline
2010	2080	Fossiliferous DOLOMITE, microcrystalline, slightly gypsiferous
2080	2095	GYPSIFEROUS(10%) fossiliferous DOLOMITE, as above
2095	2130	DOLOMITE, microcrystalline, slightly gypsiferous
2130	2160	GYPSIFEROUS (10%) DOLOMITE, microcrystalline
2160	2280	Fossiliferous DOLOMITE, microcrystalline, slightly gypsiferous
2280	2290	GYPSIFEROUS (10%) DOLOMITE, microcrystalline, Anhydrite or Gypssum forms irregular bands and seams

2290	2300	DOLOMITE, microcrystalline
2300	2370	GYPSIFEROUS (10%) DOLOMITE, microcrystalline
2370		Fossiliferous DOLOMITE, microcrystalline to very fine crystalline, Borelis, etc.,
2370	2400	DOLOMITE, light brown to brown, pure and clean, very fine crystalline, slightly gypsiferous
2400	2560	DOLOMITE, as above
2560	2660	DOLOMITE, very fine crystalline
1660	2810	DOLOMITE, very fine crystalline, slightly gypsiferous
2810	2825	Chalky Limestone
2825	2830	DOLOMITE, very fine crystalline
2830	2860	Chalky Limestone
2860	2865	DOLOMITE, very fine crystalline
2860	2895	Chalky Limestone
2895	2900	DOLOMITE, as above
2900	2910	Chalky Limestone
2910	2915	DOLOMITE, as above
2915	3400	Chalky Limestone

OWNER	:	Humble Oil & Refining Co.
FARM NAME	:	C. E. Robinson et ux, No. 1 (Permit No. 105)
LOCATION	:	Center of NE/4 NE/4, Sec. 19, T16S, R17E, 6 miles south of Lebanon Station
COUNTY	:	Levy
ELEVATION	:	58' DF; 46.00' Grd. (Schl. Riley's)
STARTED	:	May 16, 1949
COMPLETED	:	August 20, 1949
CASING	:	26" @82' w/150 sx; 13-3/8" @1412' w/500 sx
DEPTH	:	4,609' in quartzite
DRILLER	:	Sunnyland Contracting Co.
USE	:	Test for oil - dry and abandoned
REMARKS	:	*Att. DST 4118-30; 1/4" T&B; open 3-1/2 hours, pipe parted. TD 4130. Fishing for drill pipe. *(Dixie Geol. Service, 6-30-49) 425 cuttings frm. 125 to 4370' received from HORC, by W. B. Jones and J. C. Simpson, Nov. 25, 1949. Cores from the No. 1 @ 4005-4010- to 79 @ 4575-4609', were received from HORC by Jones and Simpson, Jan. 4, 1950. Driller's log 388 to 4609' Schl. log 82-4609'

Dup. Smpls. & Cores in wrhs
4-15-75

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1039	Lignite, lime, dolomite
1101	Dolomite & lignite
1125	Lime
1149	Dolomite & lignite
1300	Dolomite & lime
1340	Lime & lignite
1415	Lime, sandy streaks
1555	Dolomite, lime & anhydrite
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1715	Lime, sand & anhydrite
1828	Dolomite, lime & streaks sand
2050	Dolomite & sand
2150	Dolomite, anhydrite & strks. sand
2425	Dolomite & sand
2683	Sand, dolomite & anhydrite
2734	Dolomite & lime
2807	Dolomite, anhydrite, chalky
3015	Dolomite, streaks chalk
3242	Sand & chalk
3491	Chalk
3600	Chalk, dolomite & sand
3622	Chalk
3811	Chalk, shale
3905	Chalk
4005	Chalky lime & sand
4050	Sand
4062	Hard sandy lime
4080	Sandy lime & shale
4115	Green shale
4130	Sand
4184	Sandy shale, gray
4206	Green shale
4220	Shale
4275	Green shale
4320	Soft sand
4328	Sand
4344	Hard shale
4375	Igneous rock

Chih Shan Chen
Dec. 31, 1964

Oct 2008. Added elevation info

COMPANY	:	Humble Oil & Refining Co.
OWNER	:	C. E. Robinson
LOCATION	:	Cen. NE¼ NE¼ Sec. 19, T16S, R17E
COUNTY	:	Levy
ELEVATION	:	56.4' D.F. 46' Grd
COMPLETED	:	8/18/49
DEPTH	:	4609'
REMARKS	:	Samples almost complete, Electric Log available

(CHEN 1963)

0	30	MIOCENE OR YOUNGER, (No OCALA GROUP)
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1190	1700	OLDSMAN LIMESTONE
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0	30	MIOCENE OR YOUNGER
30	140	Highly fossiliferous Limestone (Biosparite)
140	150	DOLOMITE (20%) fossiliferous Limestone
150	210	DOLOMITE, very fine to fine crystalline
210	390	CALCITE (20%) fossiliferous DOLOMITE, microcrystalline
390	430	CALCITE (10%) DOLOMITE, microcrystalline
430	460	CALCITE (30%) DOLOMITE, microcrystalline
460	470	DOLOMITE, very fine to crystalline
470	520	DOLOMITE, fine crystalline
520	545	CALCITE (10%) DOLOMITE, microcrystalline

LAD-74

105
W-2012

THE STATE BOARD OF CONSERVATION
OF FLORIDA
TALLAHASSEE, FLORIDA

AFFIDAVIT OF PLUGGING COMPLETION

(Instructions: This form shall be filed within thirty (30) days after the plugging of any well.)

The State Board of Conservation
Tallahassee, Florida

Sirs:

You are hereby notified of the abandoment of a well known as Humble Oil & Refg. Company (Operator) Well No. 1 on the C. E. Robinson farm or lease in Section No. 19, in Levy County, Florida, permission to drill which was granted on the 10th day of May, 1949 by Permit No. 105.

Date Notice of Intention to Abandon was filed 8-17-49.

Date plugging was commenced 8-19-49.

Date plugging was completed 8-19-49.

Details: (Here give a detailed account of the manner in which work was performed, including the following nature and quantities of materials used in plugging and the depths and lengths of the various plugs; records of any tests or measurements made; amount, size and depth of all casing left in the well; volume and gravity of mud-laden fluid used; pressure retained in mudding; casing and its position left in hole.) Casing was not pulled.

First plug from 4401 to 4609 using 50 sacks Portland cement

Second plug from 1300 to 1500 using 150 sacks Portland cement

Surface plug of 35 sacks Portland Cement

Heavy drilling mud was placed between the plugs

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AUG 31 1949
GEOLOGICAL SURVEY
TALLAHASSEE, FLORIDA

Name of person in charge of plugging Mr. R. B. Gustafson

ADDRESS of person in charge of plugging Everglades, Florida.

I hereby swear or affirm that the information given herewith is to the best of the knowledge and belief of the affiant a complete and correct record of the well and all work done on it.

Name of affiant O. Frank Lee
Position District Chief Clerk
Representing Humble Oil & Ref. Co (Operator)
Address Everglades, Fla.

SUBSCRIBED and Sworn to before me on this 30th day of August, 1949.

Jane B. Kerce
NOTARY PUBLIC

Notary Public, State of Florida at large
My commission expires April 5, 1953.
Bonded by American Surety Co. of N. Y.

Orig: Mr. Herman Gunter - Tallahassee
cc: Mr. R. E. Sinclair
cc: Mr. C. C. Clifton
cc: File

May 11, 1949

Mr. Ralph T. Folwell
811 Olympic Building
Miami 32, Florida

York-Hunt Company
Immokalee, Florida

Dear Sirs:

The State Board of Conservation met on May 10, 1949 and approved Humble Oil & Refining Company's application to drill their C. E. Robinson et Ux Well No. 1 in Levy County, located as follows:

> 946 feet from north line and 820 feet from east line in the NE¼ of NE¼ of Section 19, township 16 south, range 17 east.

Very truly yours,

HERMAN GUNTER
Asst. Secy. - Oil Division
State Board of Conservation

/jn

19

STATE BOARD OF CONSERVATION
STATE OF FLORIDA

WELL RECORD

INSTRUCTIONS: This record is to be filed with the Board within 30 days after completion of well

FIELD: Lebanon COUNTY: Levy

SURVEY: - SECTION: 19

WELL LOCATION: Center of the N/E Quarter of the N/E Quarter of Section 19, T-16-S; R-17-E.

DATE OF COMMENCING: 5-16-49 DATE OF COMPLETING 8-22-49

NAME OF CONTRACTOR: Sunnyland Contracting Company

OPERATOR: Humble Oil & Refg. Co. LEASE: C. E. Robinson WELL NO. 1

ELEVATION AT TOP OF OIL STRING CASINGHEAD: Ground elevation 46.00'

CASING LINER AND TUBING RECORD

STRING	SIZE	WT./FT.	NAME & TYPE	AMOUNT FT. IN.	DEPTH SET AT	PERFORATED FROM	TO
	26"	?	1/2" Wall	67.50'	82.50'		
	13-3/8"	61#	J-55	1397.97'	1412.57'		

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TALLAHASSEE, FLORIDA

CEMENT & TESTING RECORD

SIZE OF HOLE	STRING	WHERE CEMENT PLACED	NO. SACKS OF CEMENT	METHOD USED	PRESSURE APPLIED IN TESTING	HARDNESS OF CEMENT DRILLED	KIND OF CEMENT
	20"	82.50'	150	Pump	-	Med. Hd.	Portland
	13-3/8"	1412.57'	500	"	1000#	"	"

INITIAL PRODUCTION TEST

DATE TAKEN: None - Dry

OIL: BBLS. GAS: G.O.R.

WATER: BBLS. T.P. C.P.

CHOKE SIZE: SIZE WORKING BARREL: LENGTH OF STROKE:

NO. STROKES PER MINUTE: HOURS DURATION OF TEST:

CHEMICAL OR SHOOTING RECORD

SIZE	CHEMICAL OR EXPLOSIVE USED	QUANTITY	DATE	DEPTH
		None		

Orig&2cc: Mr. Herman Gunter - Tallahassee
cc: Mr. R. E. Sinclair
cc: Mr. C. C. Clifton
cc: File

LAD-71

Form 5

STATE BOARD OF CONSERVATION
STATE OF FLORIDA

NOTICE OF INTENTION TO ABANDON AND PLUG WELL

INSTRUCTIONS: File in duplicate with Board. One copy will be returned with approval or denial. This form shall be accompanied by $15.00 permit fee for all permits to abandon each dry hole.

FIELD: Lebanon
OPERATOR: Humble Oil & Refining Company ADDRESS: P.O.Box 2180 - Houston, Texas
LEASE: G. E. Robinson WELL: 1 COUNTY: Levy
SURVEY: - SECTION: 19 DRILLING PERMIT NO. 105
LOCATION: Center of the N/E Quarter of the N/E Quarter of Section 19, T-16-S R-17-E.

TYPE OF WELL: DRY (Oil, Gas or Dry Hole) TOTAL DEPTH: 4609
ALLOWABLE (If Assigned):
LAST PRODUCTION TEST: OIL: (Bbls.) WATER: (Bbls.) GAS: (MCF)

PRODUCING HORIZON: PRODUCING FROM: TO:

FULL DETAILS OF PROPOSED PLAN OF PLUGGING (Including length and depth of plugs, plans for mudding, cementing, testing, and removing casing);
First plug on botton using 50 sacks cement
Second plug from 1347' to 1447' using 160 sacks cement
Third plug at top using 35 sacks cement
Heavy drilling mud will be placed between the plugs

Casing will not be removed.

DATE OF COMMENCING PROPOSED OPERATIONS: 8-18-49
NAME OF PARTY PLUGGING WELL: Humble Oil & Refg. Co. ADDRESS: Everglades, Florida
CORRESPONDENCE SHOULD BE SENT TO: Mr. F. B. Gustafson

NAME: L. E. Wallette

TITLE: District Superintendent

Check No. 951-E, in amount of $15.00 attached.

ACTION OF STATE BOARD OF CONSERVATION

APPROVED: Aug. 23, 1949

DENIED:

STATE BOARD OF CONSERVATION

BY: R. A. Gray
Secretary

Orig&cc: Mr. Herman Gunter - Tallahassee
cc: Mr. R. E. Sinclair
cc: Mr. C. E. Clifton
cc: File

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GEOLOGICAL SURVEY
TALLAHASSEE, FLORIDA

DRILLER'S LOG

C. E. ROBINSON # 1

Depth	Formation
388	Dolomite
653	Dolomite & Lime
661	Lime, Dolomite, Lignite
678	Dolomite & Lime
814	Dolomite
903	Dolomite & Lime
943	Lime & Lignite
1039	Lingnite, Lime, Dolomite
1101	Dolomite & Lignite
1125	Lime
1149	Dolomite & Lignite
1300	Dolomite & Lime
1340	Lime & Lignite
1415	Lime, Sandy Streaks
1555	Dolomite, Lime & Anhydrite
1642	Dolomite Sandy Streaks
1715	Lime, Sand & Anhydrite
1828	Dolomite, Lime & Streaks Sand
2050	Dolomite & Sand
2150	Dolomite, Anhydrite & Strks. Sand
2425	Dolomite & Sand
2683	Sand, Dolomite & Anhydrite
2734	Dolomite & Lime
2807	Dolomite, Anhydrite, Chalky
3015	Dolomite, Strks. Chalk
3242	Sand & Chalk
3491	Chalk
3600	Chalk, Dolomite & Sand
3622	Chalk
3811	Chalk, Shale
3905	Chalk
4005	Chalky Lime & Sand
4050	Sand
4062	Hard Sandy Lime
4080	Sandy Lime & Shale
4115	Green Shale
4130	Sand
4184	Sandy Shale, Gray
4206	Green Shale
4220	Shale
4275	Green Shale
4320	Soft sand
4328	Sand
4344	Hard shale
4375	Igneous rock
4609	Quartzetic Sandstone
TD	

RECEIVED
AUG 31 1949
GEOLOGICAL SURVEY
TALLAHASSEE, FLORIDA

I, Frank Fee, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that same are true and correct.

Frank Fee
Representative of Company

Subscribed and sworn to before me this 30th day of August, 1949.
Collier County, Florida.

Notary Public, State of Florida at large
My commission expires April 6, 1953.
Bonded by American Surety Co. of N. Y.

Jane B Kerr
Notary Public

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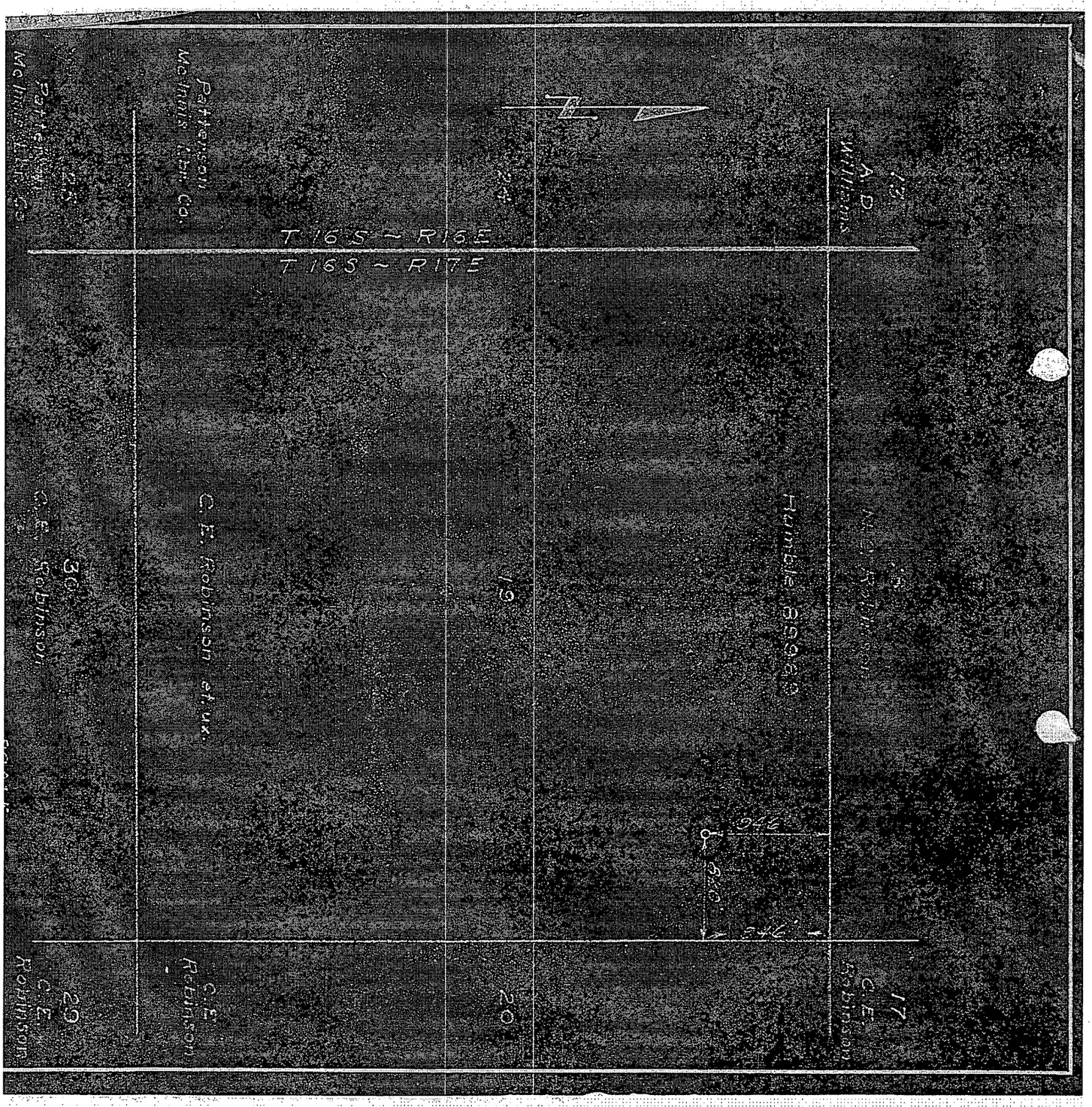


105
W-2012

~~Petm. 113~~ L.G.
~~W-1067~~ L.G.

S C H L U M B E R G E R

WELL SURVEYING CORPORATION

COUNTY: LEVY
FIELD OR LOCATION: SEC. 19-16S-17E
WELL: C.A. ROBINSON NO. 1 COMPOSITE (1-4)
COMPANY: HUMBLE OIL & REFG. CO.

COMPANY: HUMBLE OIL AND REFINING COMPANY

WELL: C.A. ROBINSON NO. 1
W-2012 (Usa)

FIELD: WILDCAT

LOCATION: SEC. 19-16S-17E

COUNTY: LEVY

STATE: FLORIDA

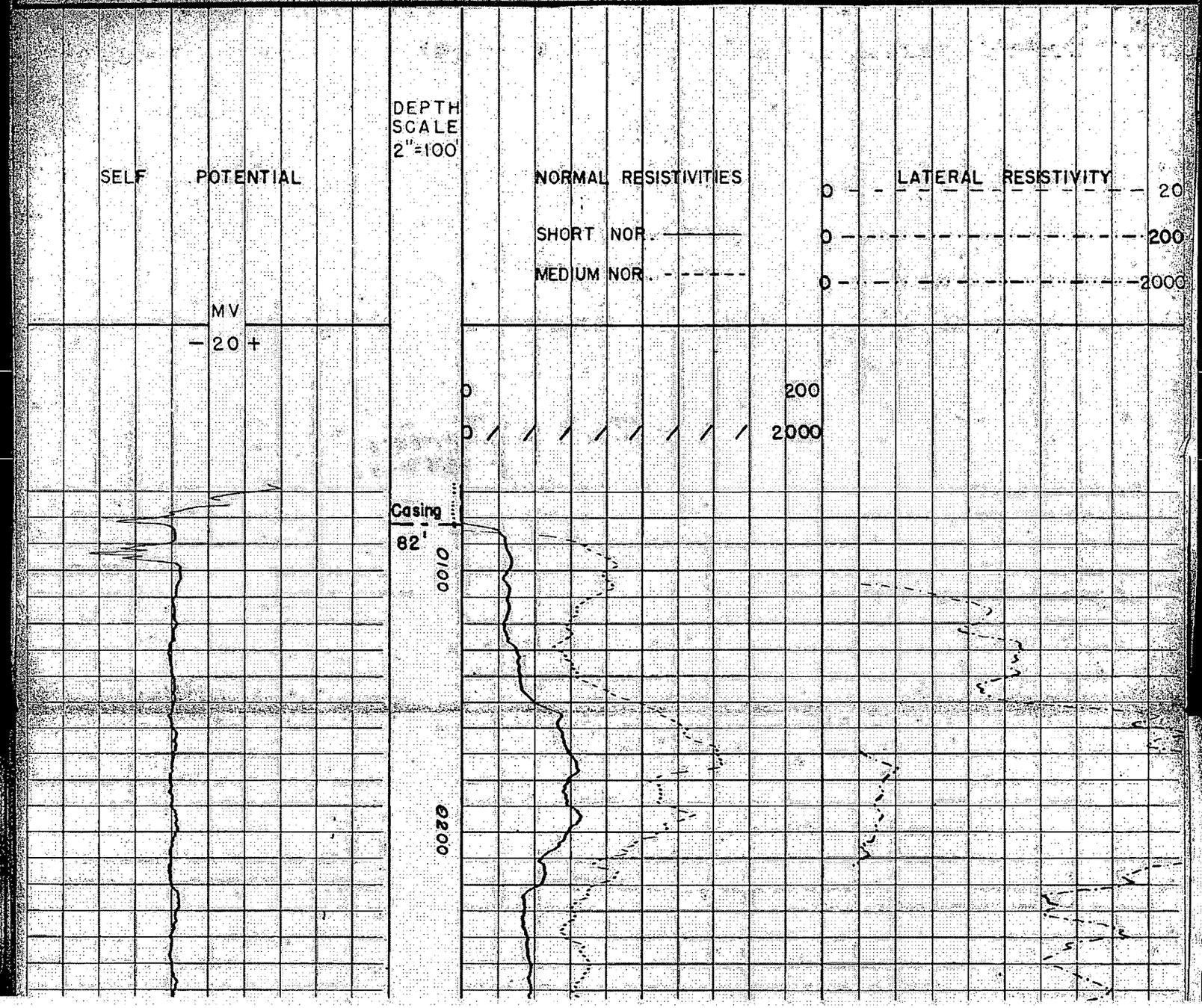
FILING No.

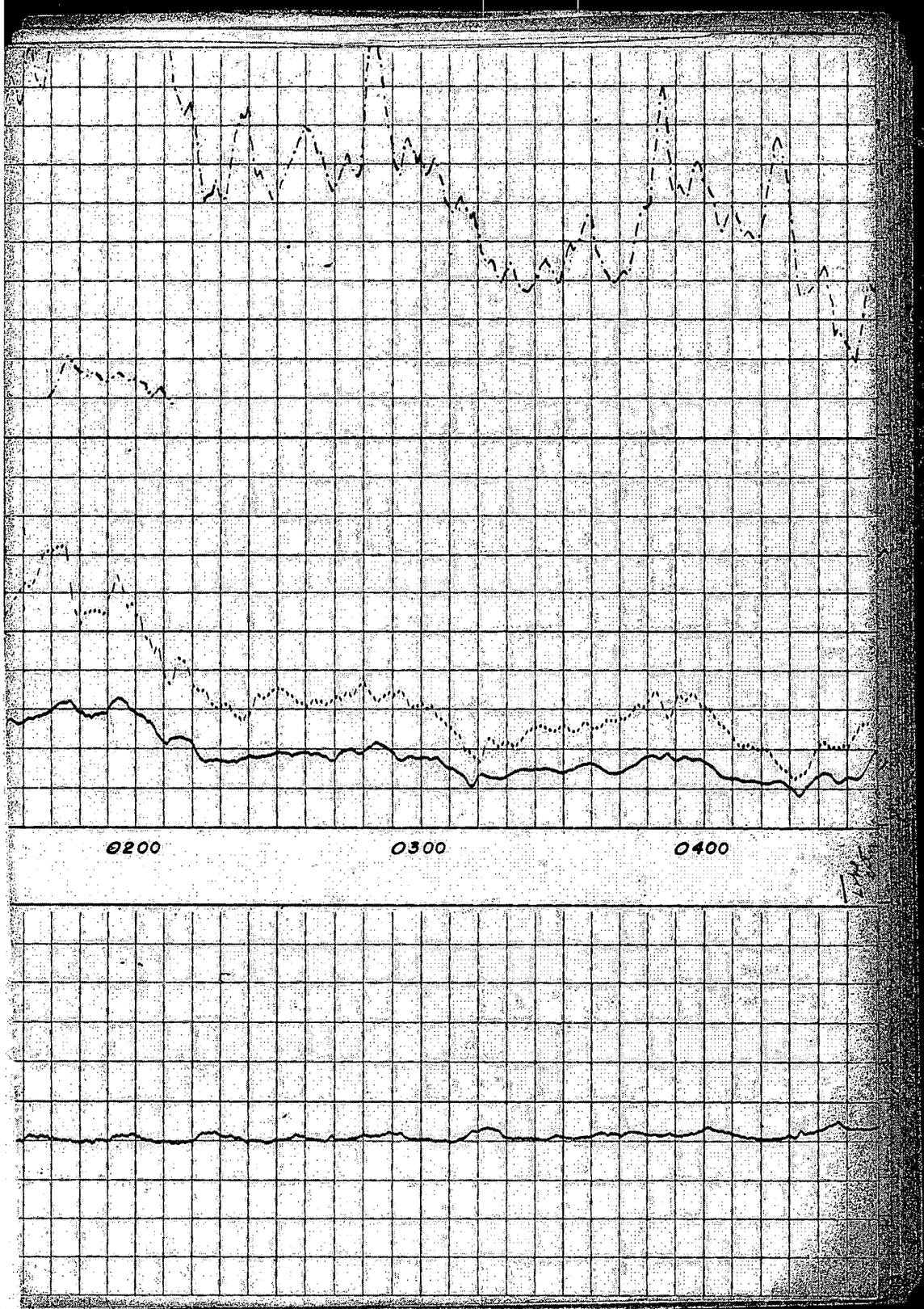
Location of Well
W-2012
105
Center of NE 1/4 of NE 1/4

Elevation: D.F. 68.4
K.B.
or G.L. 4.6

RUN NO.	ONE	TWO	THREE	FOUR	
Date	6/2/49	6/13/49	8/1/49	8/18/49	
First Reading	1413	3955	4435	4609	
Last Reading	82	1413	3955	4435	
Footage Measured	1331	2542	480	174	
Csg Shoe Schlum	82	1410	--	--	
Csg Shoe Driller	82.5	1412	--	--	
Max. Depth Reached	1413	3955	4435	4609	
Bottom Driller	1415	3958	4433	4609	
Depth Datum	TOP OF KELLY BUSHING				
Mud Nature	Hi Yield-Mag.	Caustic-Que.		See Remarks	
" Density	9.2	10.9	10.0	10.1	
" Viscosity	50		50	45	
" Resistivity	2.5 @ 78°F	1.2 @ 92°F	0.8 @ 79°F	0.4 @ 87°F	@ °F
" Resistivity BHT	@ °F	@ °F	@ °F	@ °F	@ °F
" PH ALK.	@ °F	@ °F	0.36 @ C 1/152"	@ °F	@ °F
" Water Loss	CC/30 Min	CC/30 Min	4 CC/30 Min	CC/30 Min	CC/30 Min
Maximum Temp. °F	--	--	117	119	
Bit Size	17 1/2"	8 5/8"	8 5/8" to 4393' : 6¼"		to Btm.
Spacings — AM	16"	16"	16"	16"	
AM'	63"	62"	63"	63"	
AO	24'	24'	24'	24'	
E.S. Rig Time	2½ Hours	2 Hours	2 Hours	3½ Hours	
Truck No.	268	268	256	268	
Recorded By	Huston	Huston	Huston	Huston	
Witnessed By	Wade	Wald	Baasch	Baasch	

Caustic-Quebrancho-Staron-Lime.

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0300
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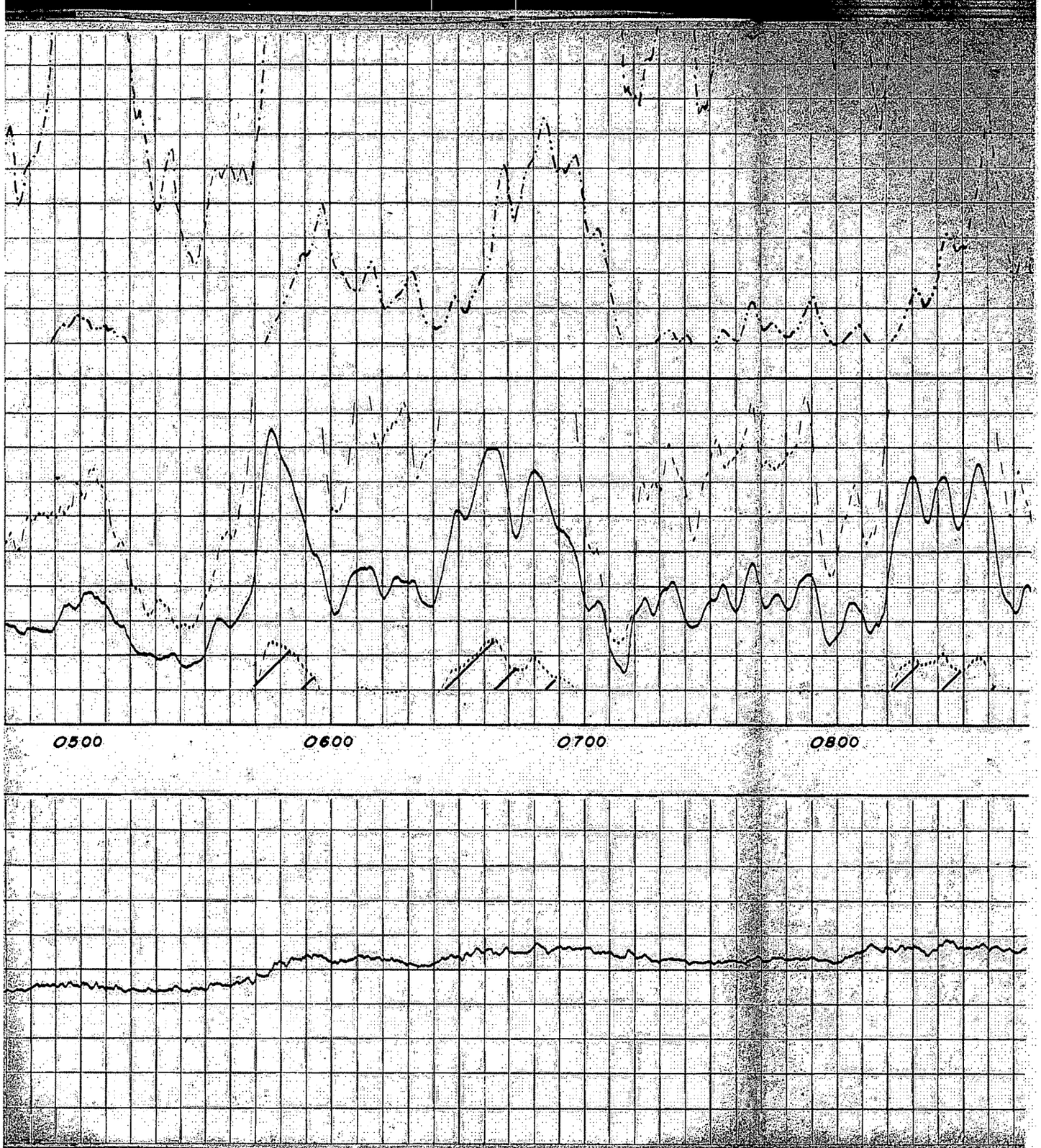
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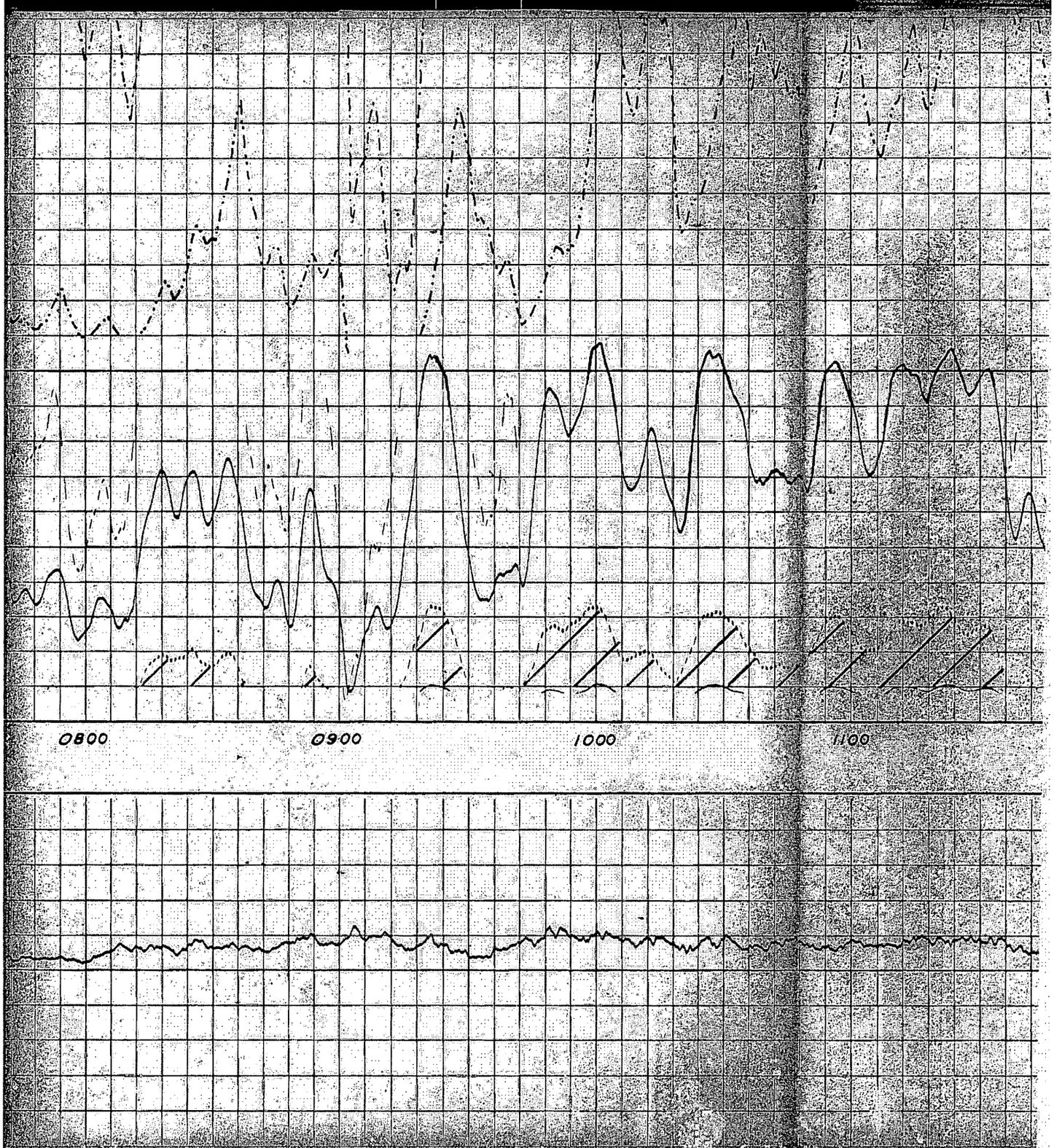
0800
0900
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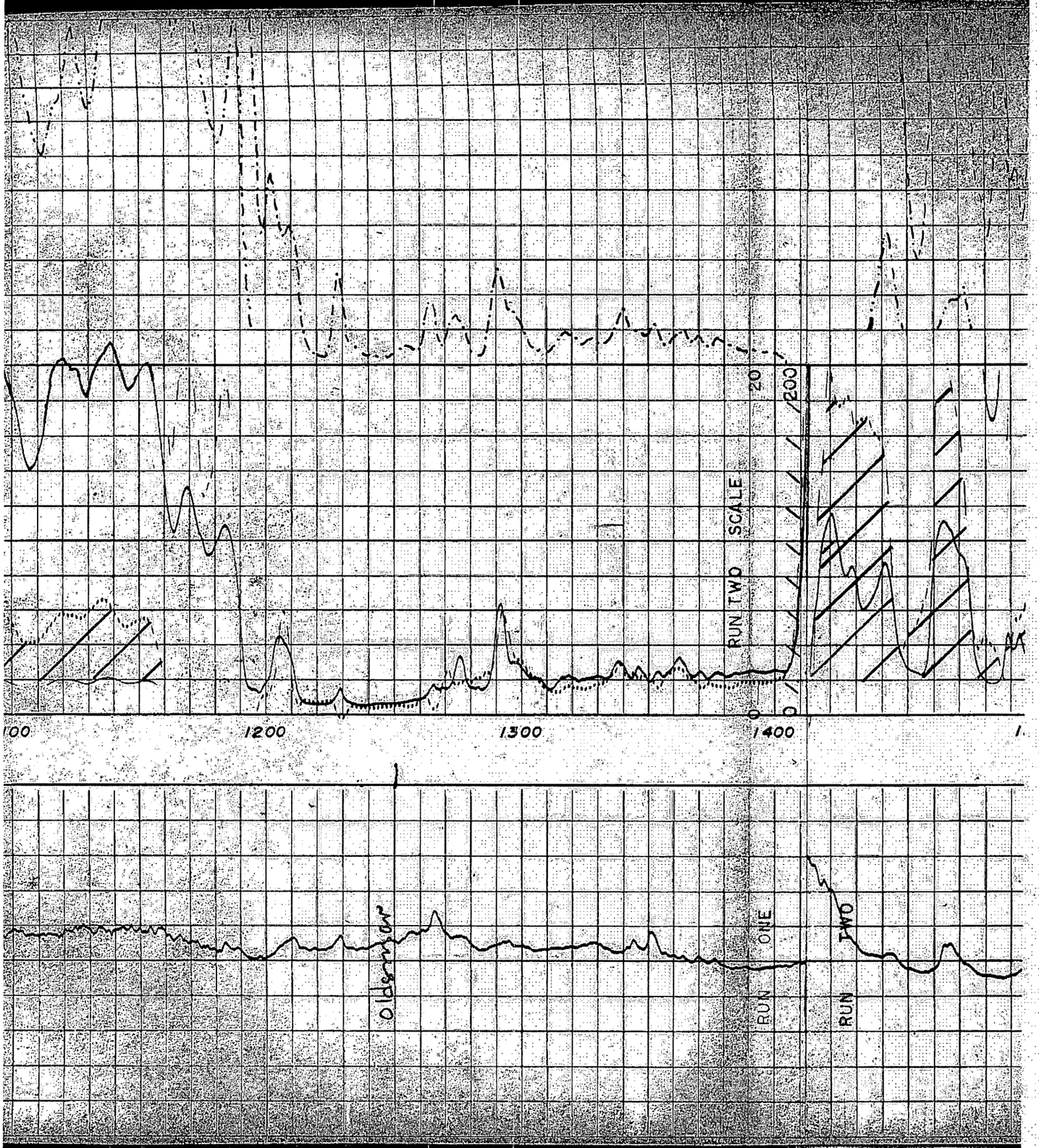
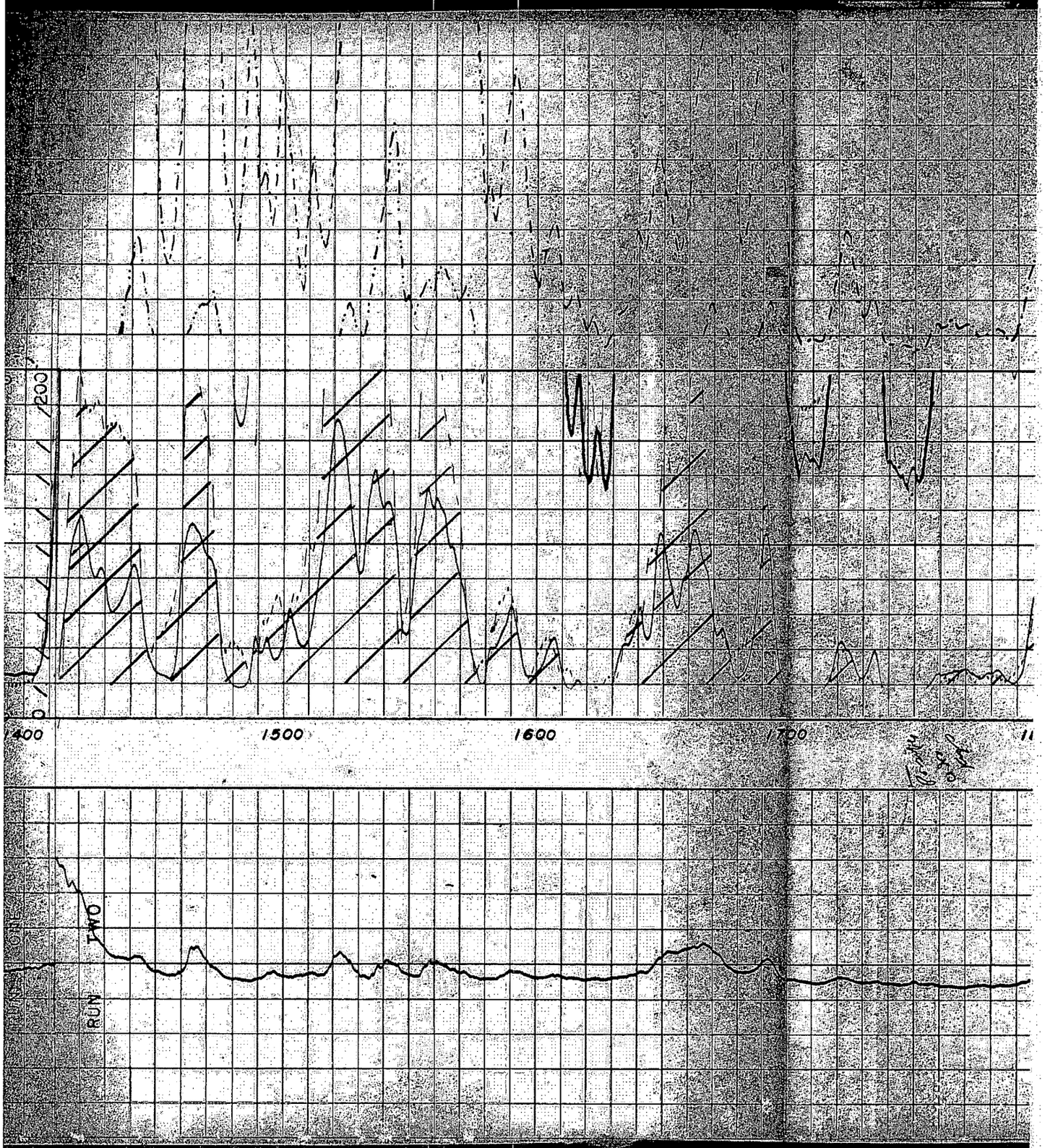
1100


RUN TWO SCALE
20
1200
0
1200
1300
1400
Oldenburg
RUN ONE
RUN TWO


200
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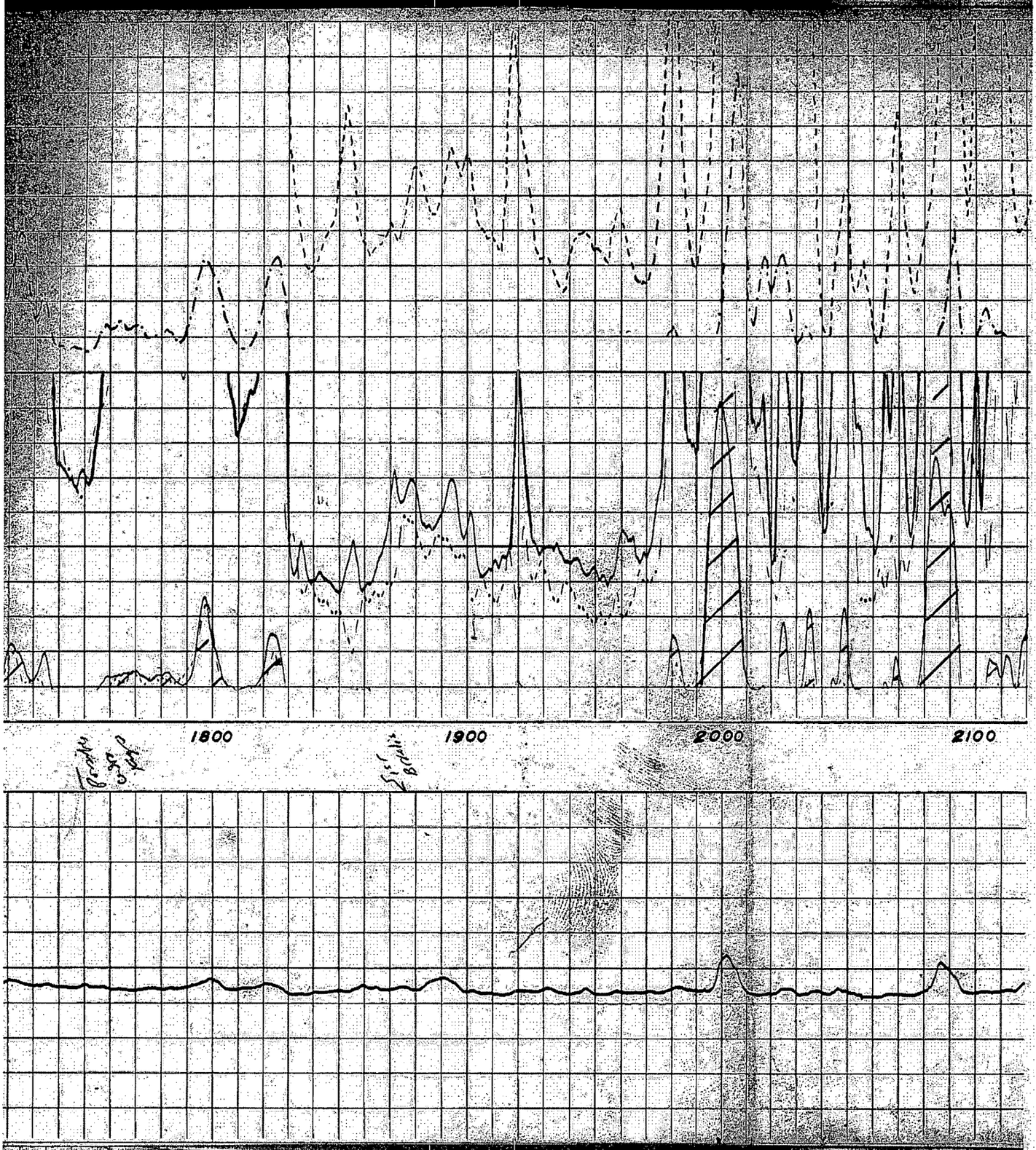
RUN TWO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1900
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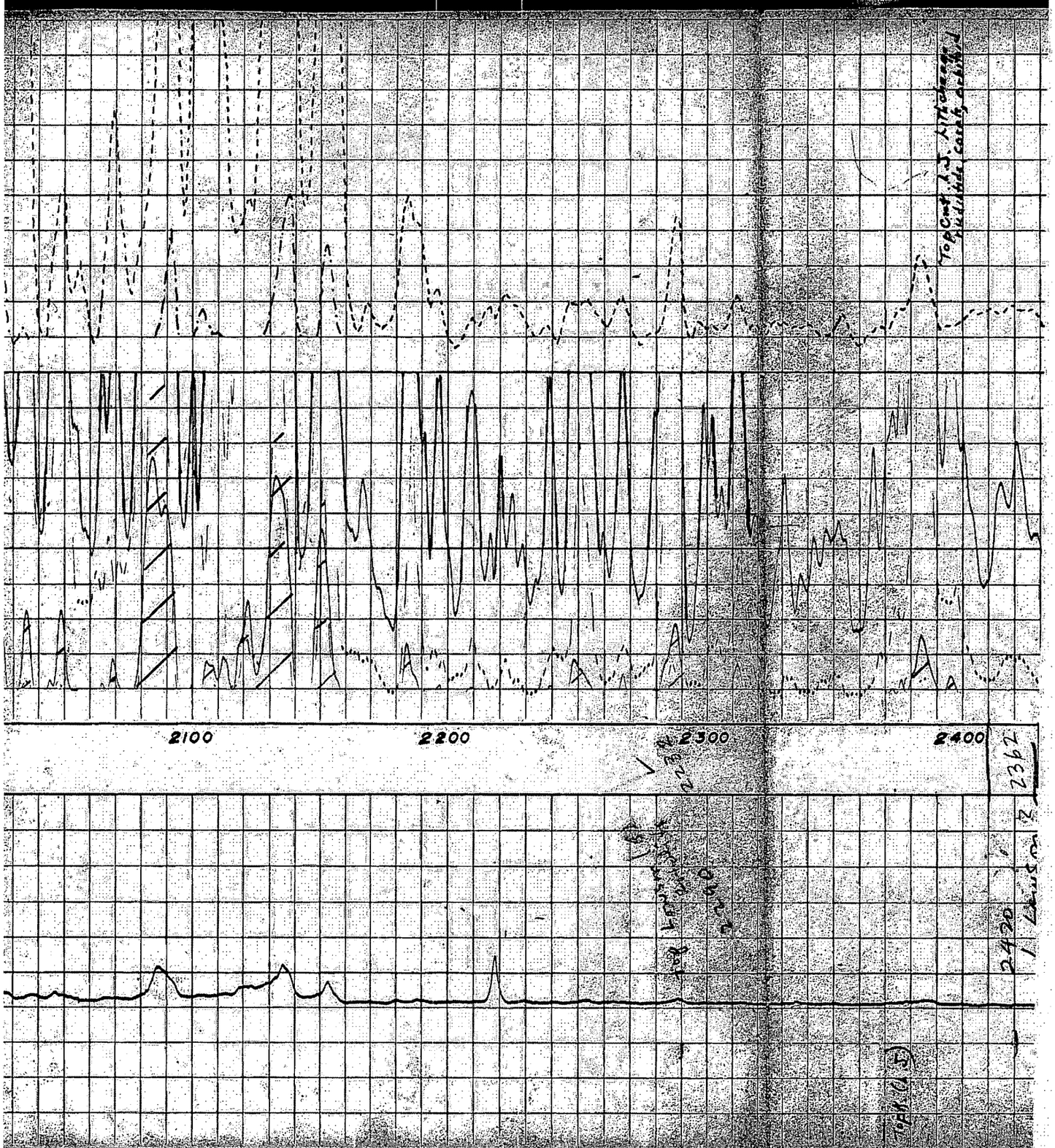
2100


2100
2200
2300
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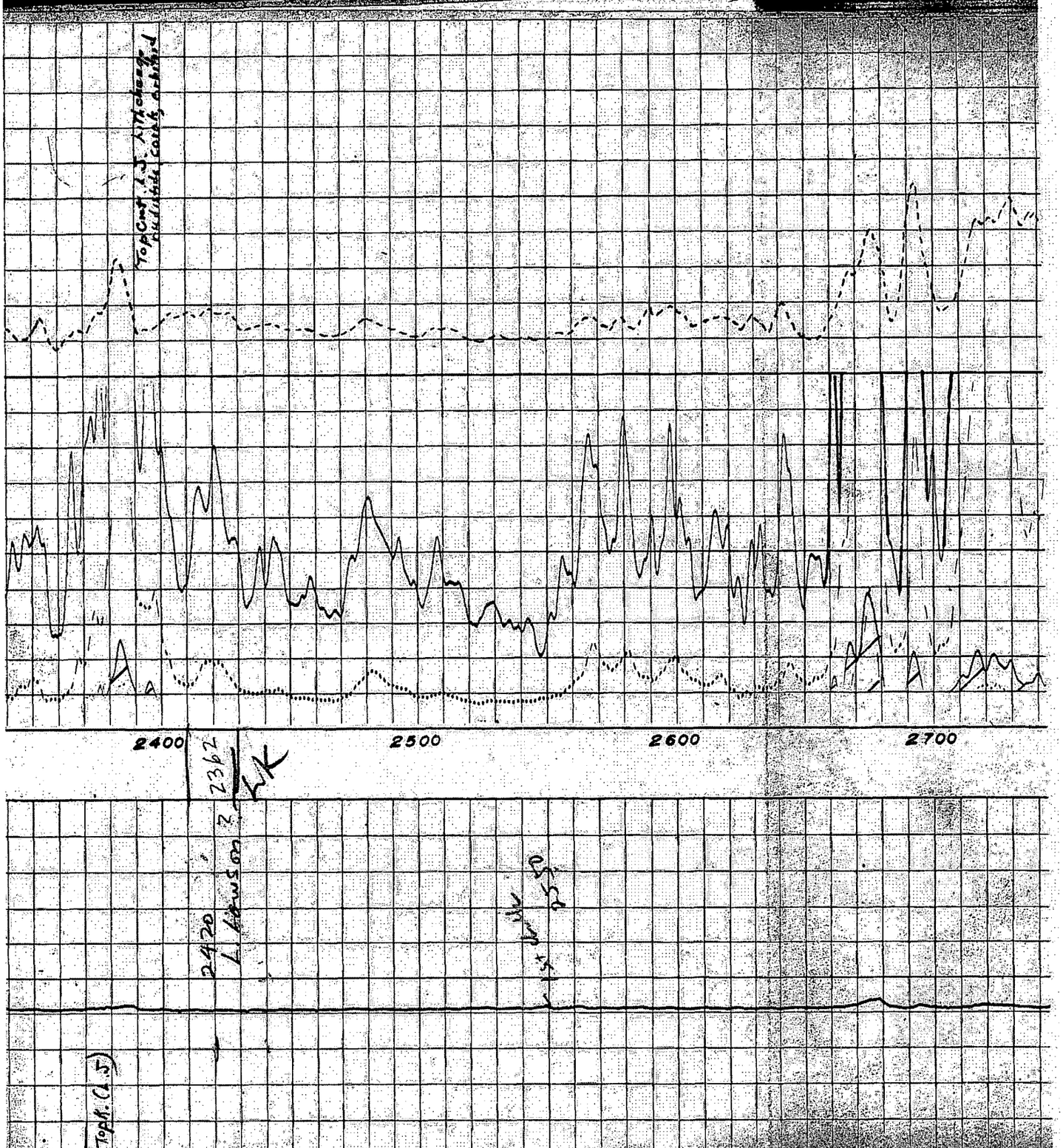
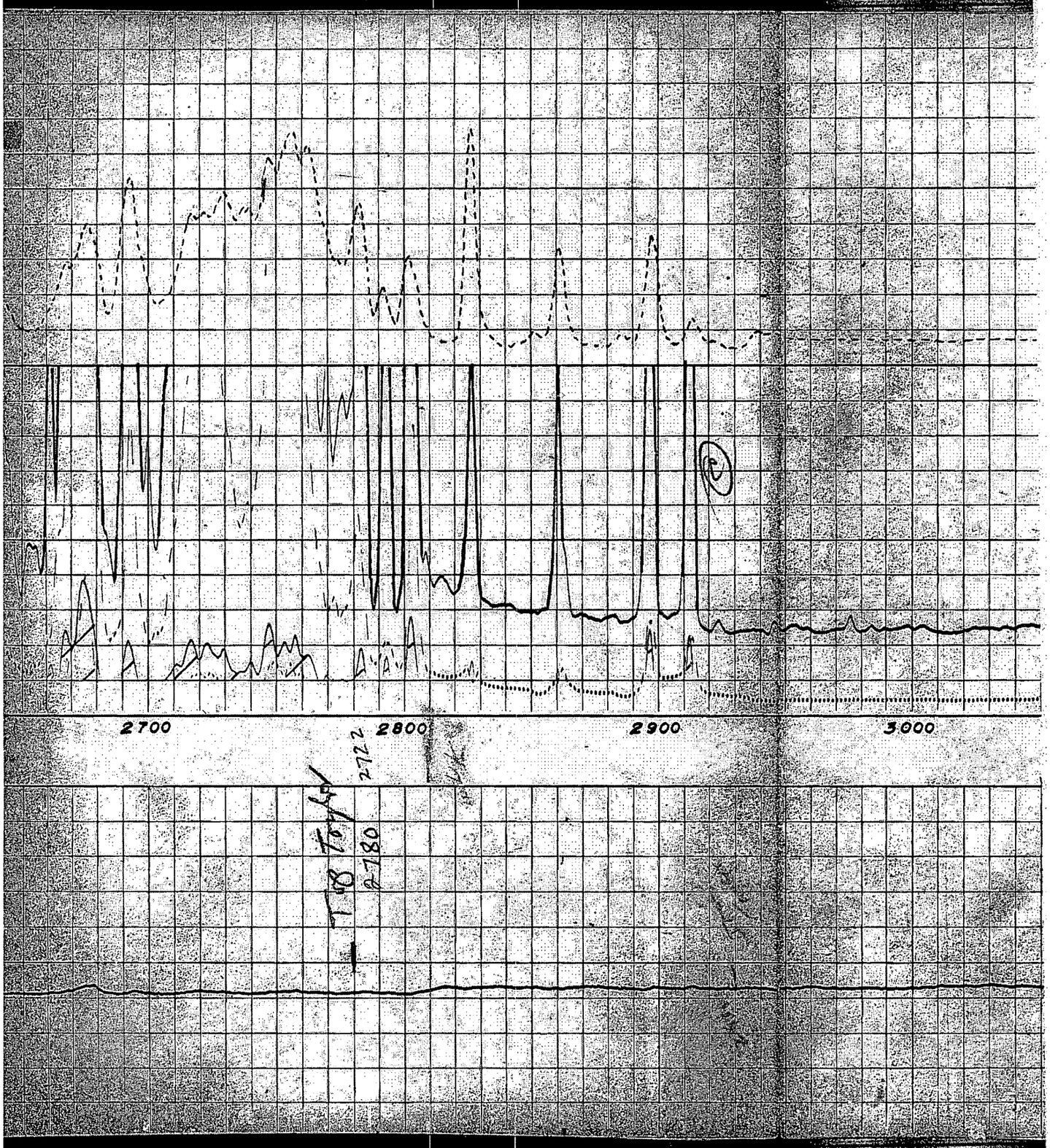
2362
2420
Top Cmt. L.J. Mitchell
Outside casing assumed


Top Cont. L.J. Nichols
Pittsburg County, Oklahoma
2400
2500
2600
2700
2362
RK
2420
L. Lawson
Top L.J.


2700
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Top Tayl
2722
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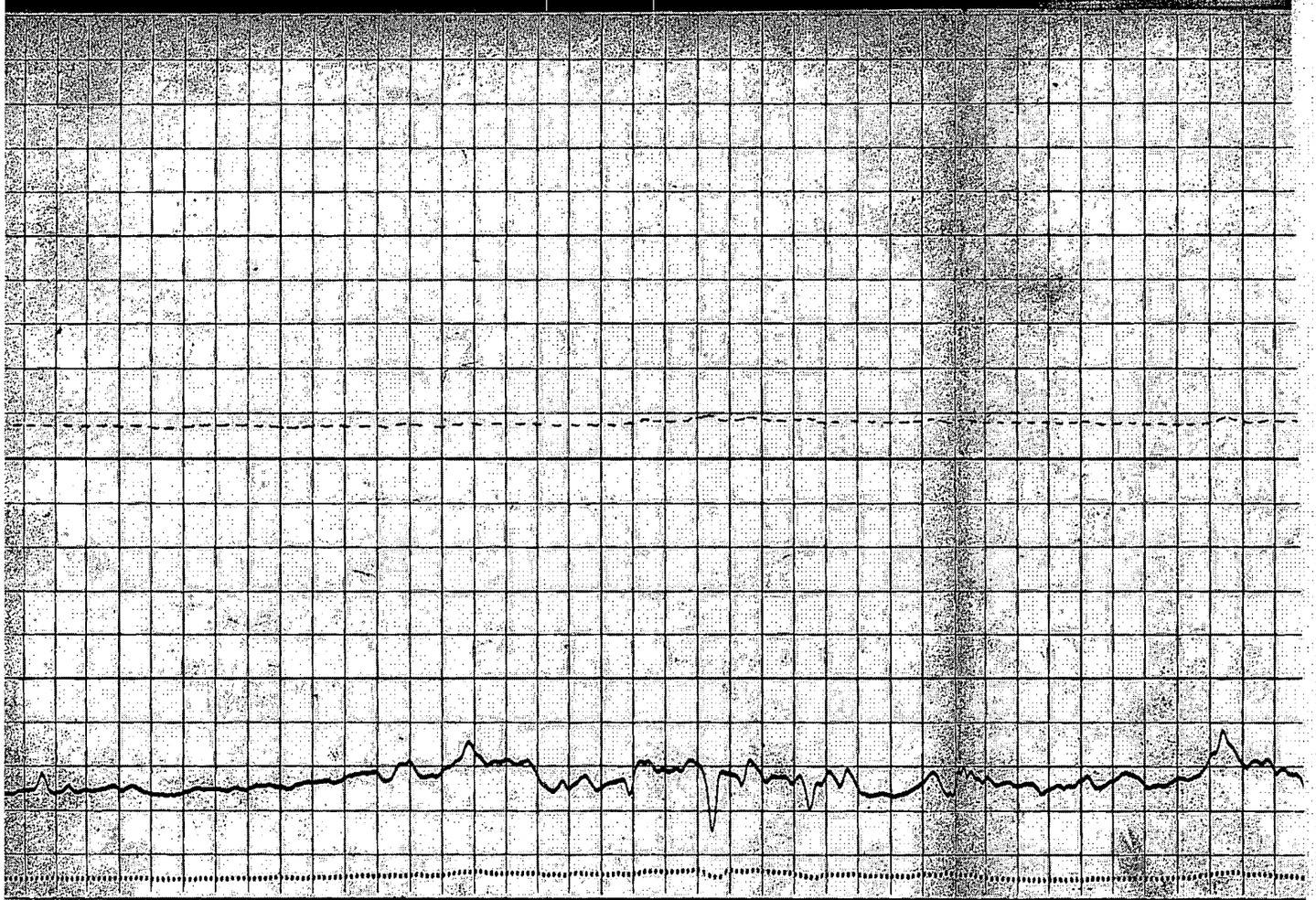
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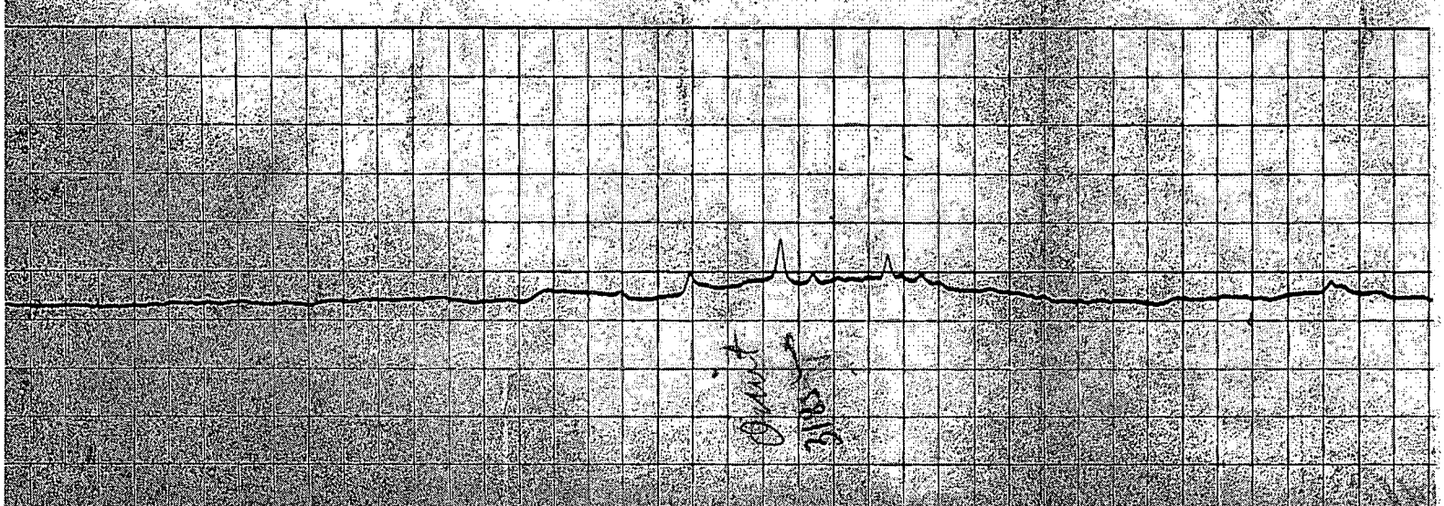
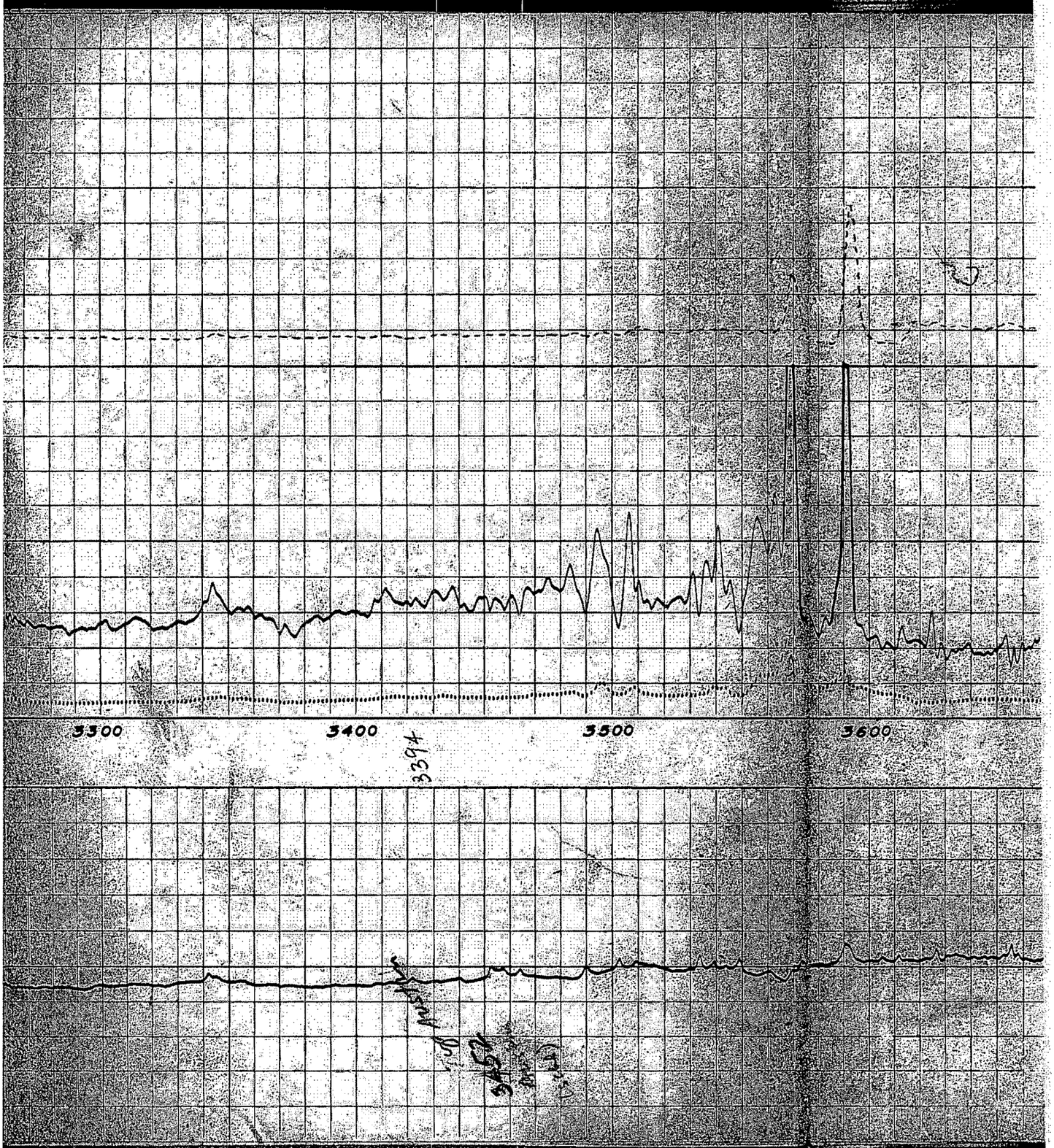

Grant
7/18/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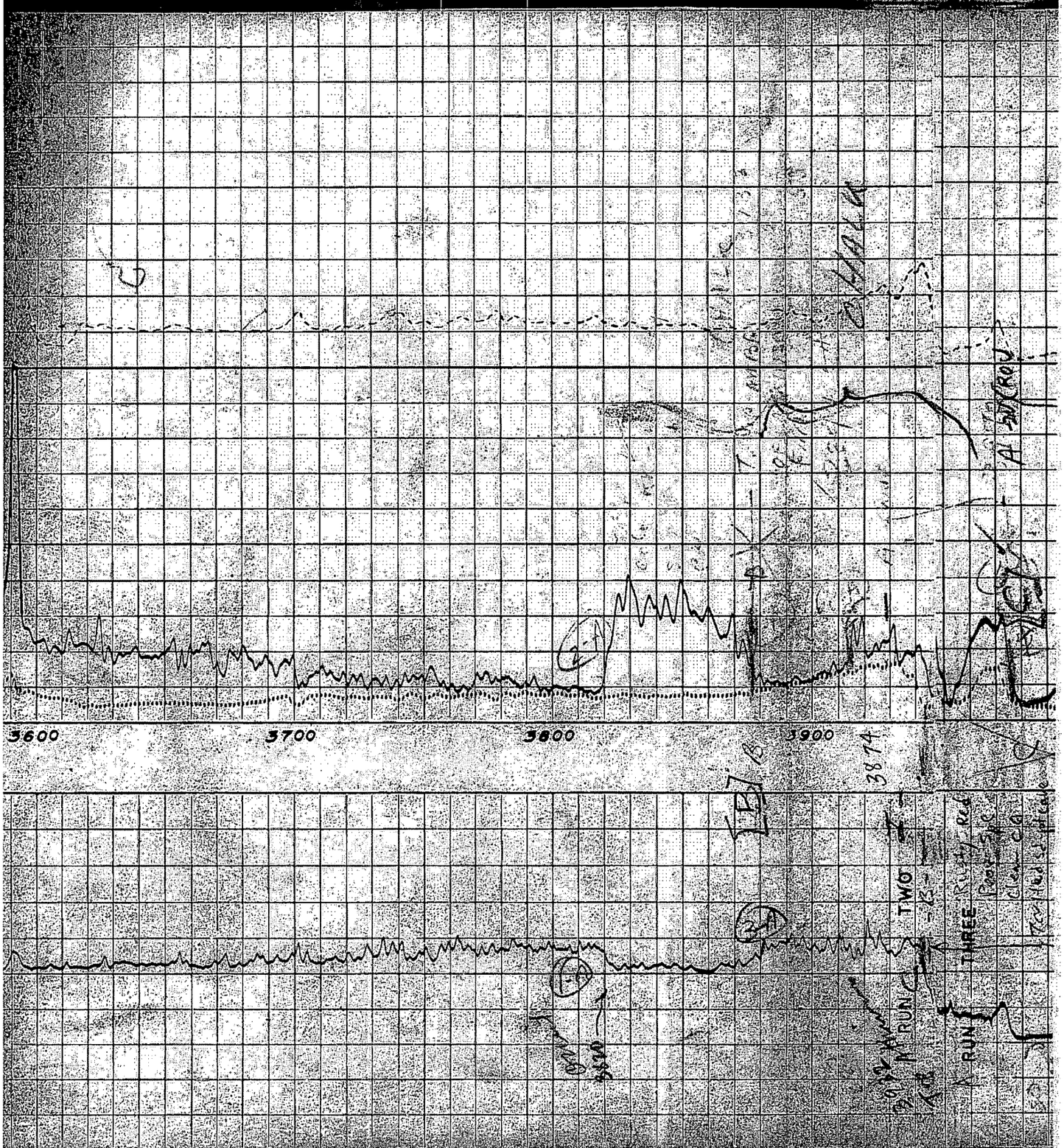
3600
3700
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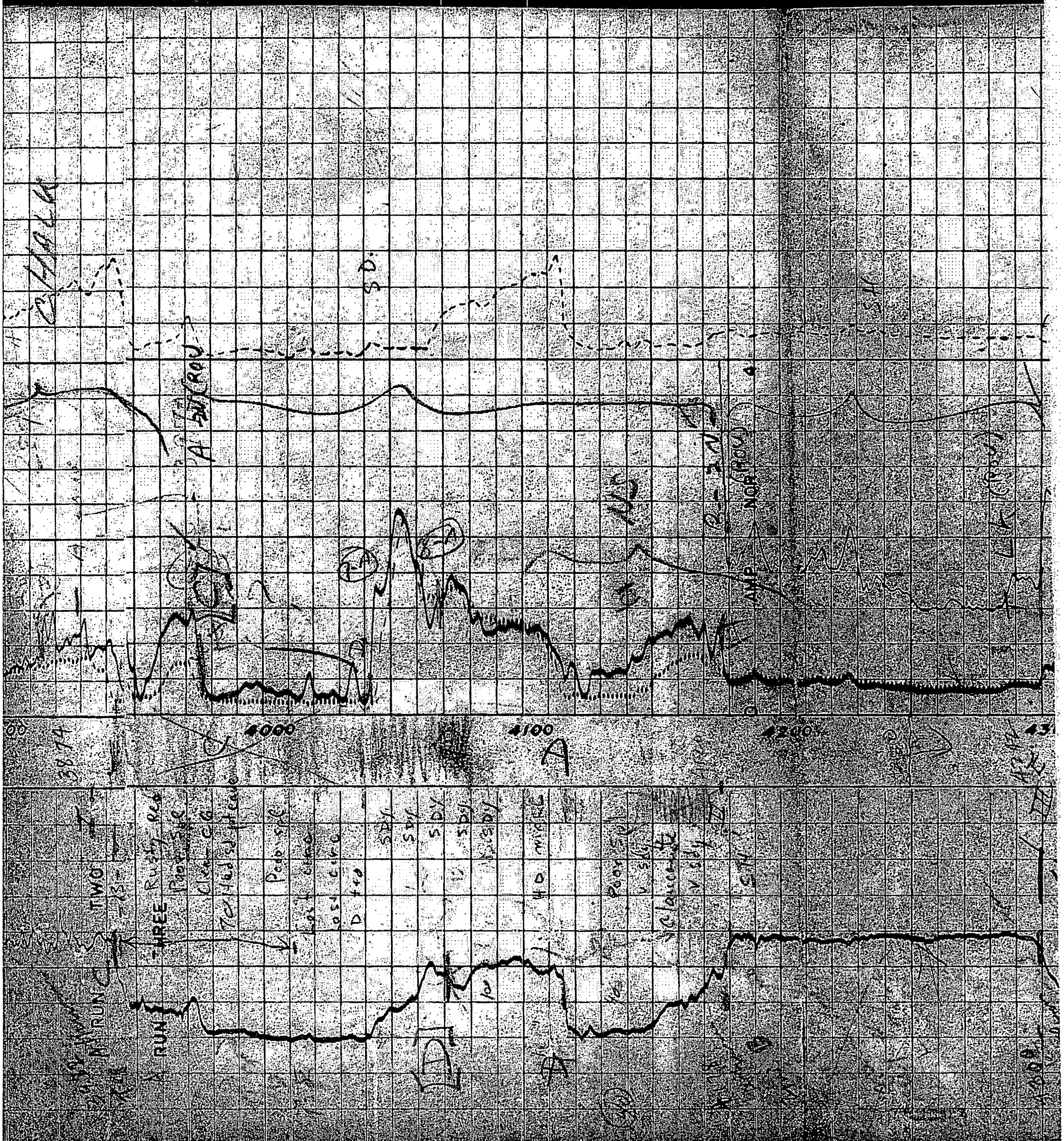
3900
3874
TWO
THREE
RUN
RUN
Rusty red
Boat
Clear
Clear


4000
4100
4200

4300
4400
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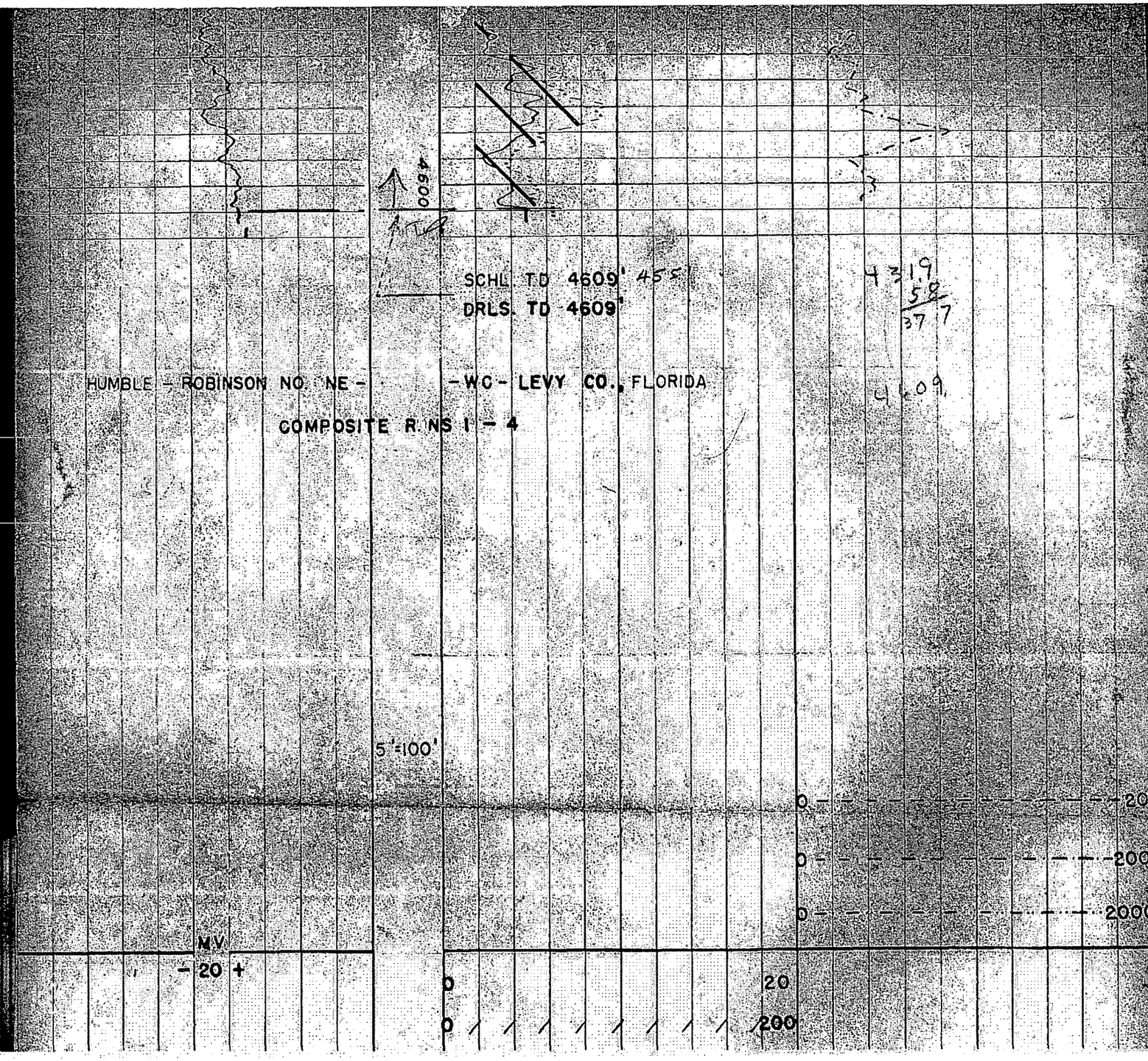
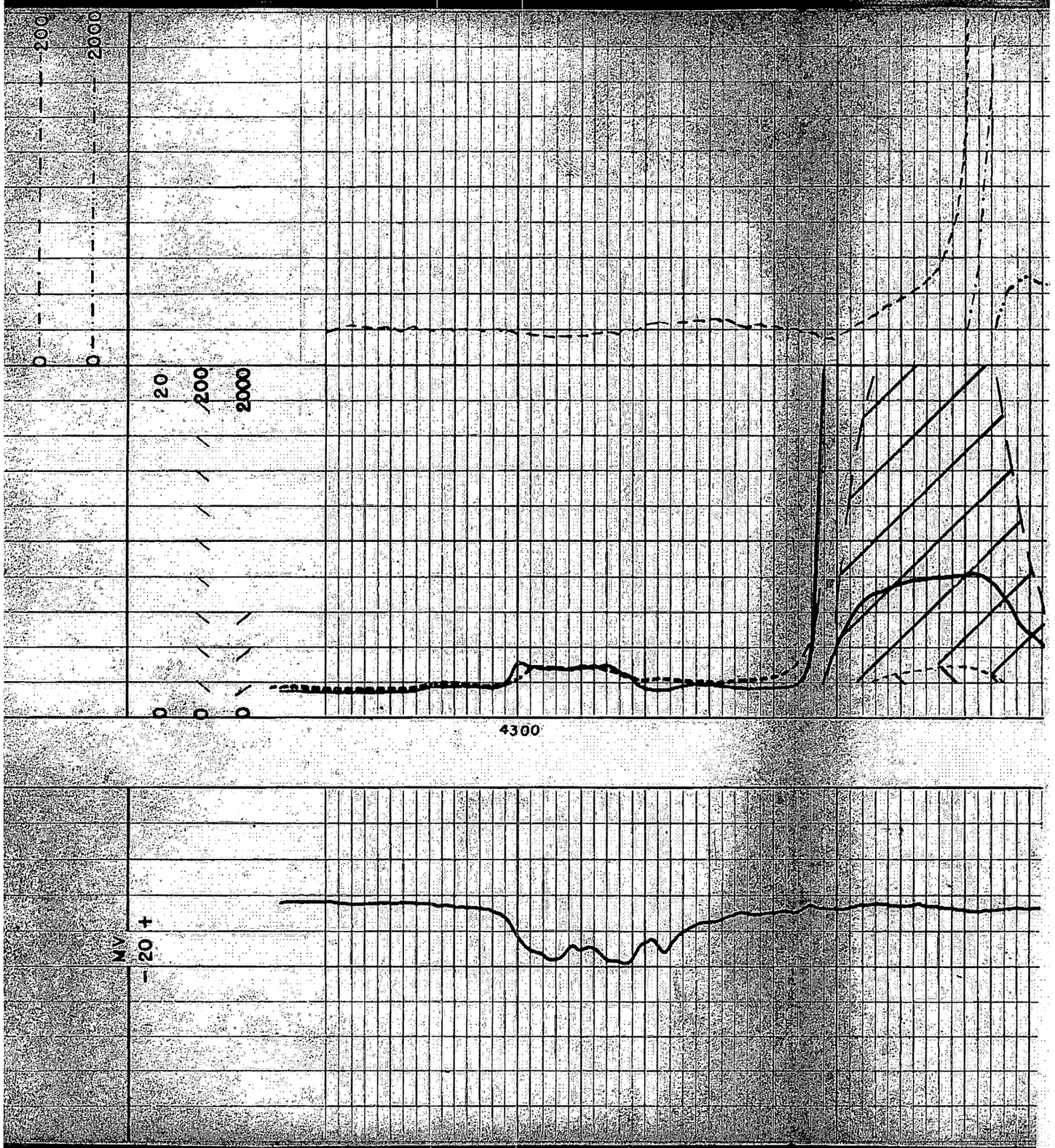
4600
THREE
FOUR
RUN
RUN


4600
SCHL. TD 4609' 455'
DRLS. TD 4609'
4319
58
3777
4.09
HUMBLE - ROBINSON NO. NE - -WC- LEVY CO., FLORIDA
COMPOSITE RUNS 1 - 4
5"=100'
20
200
2000
MV
- 20 +
0
20
0
200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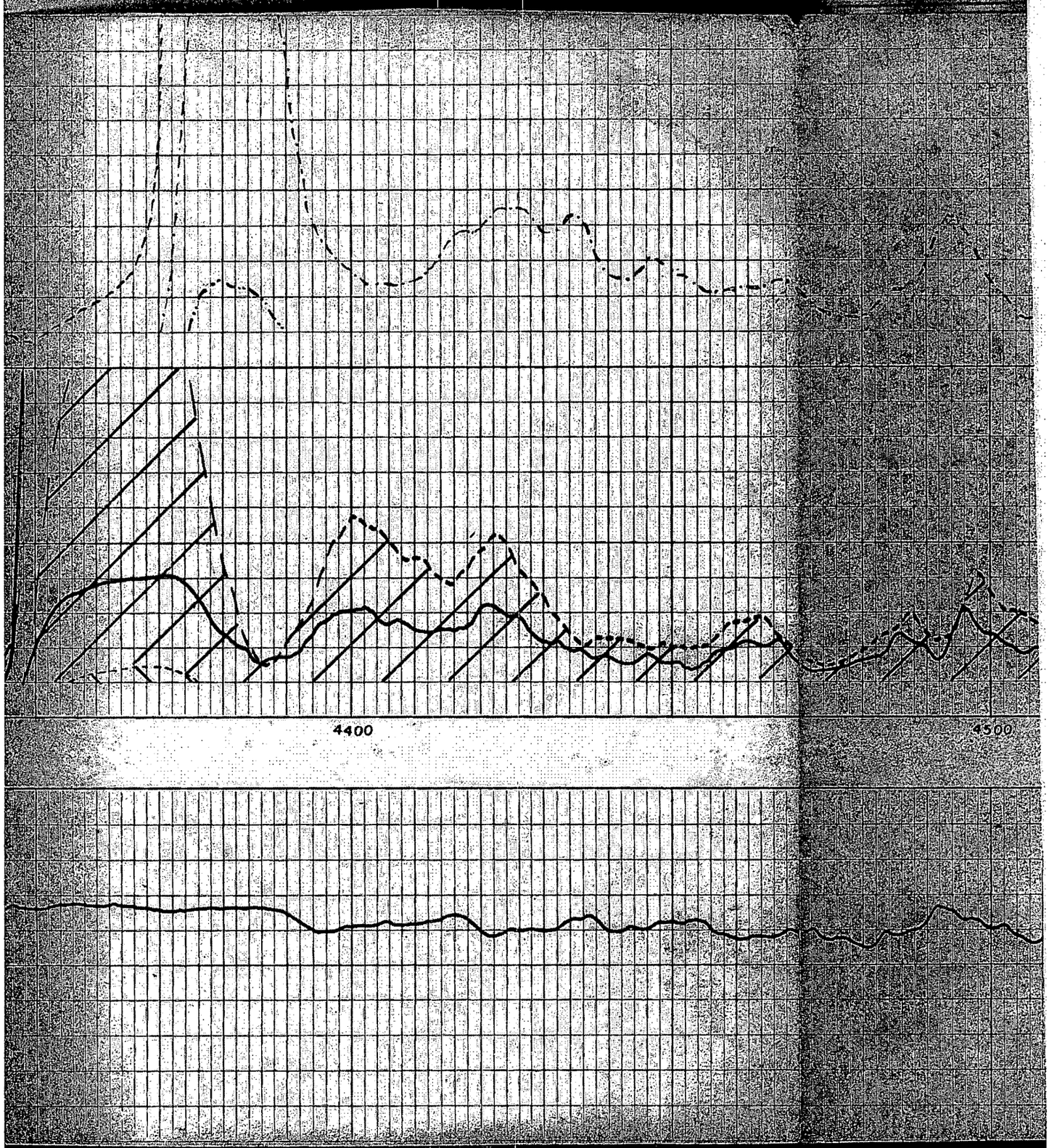
4400
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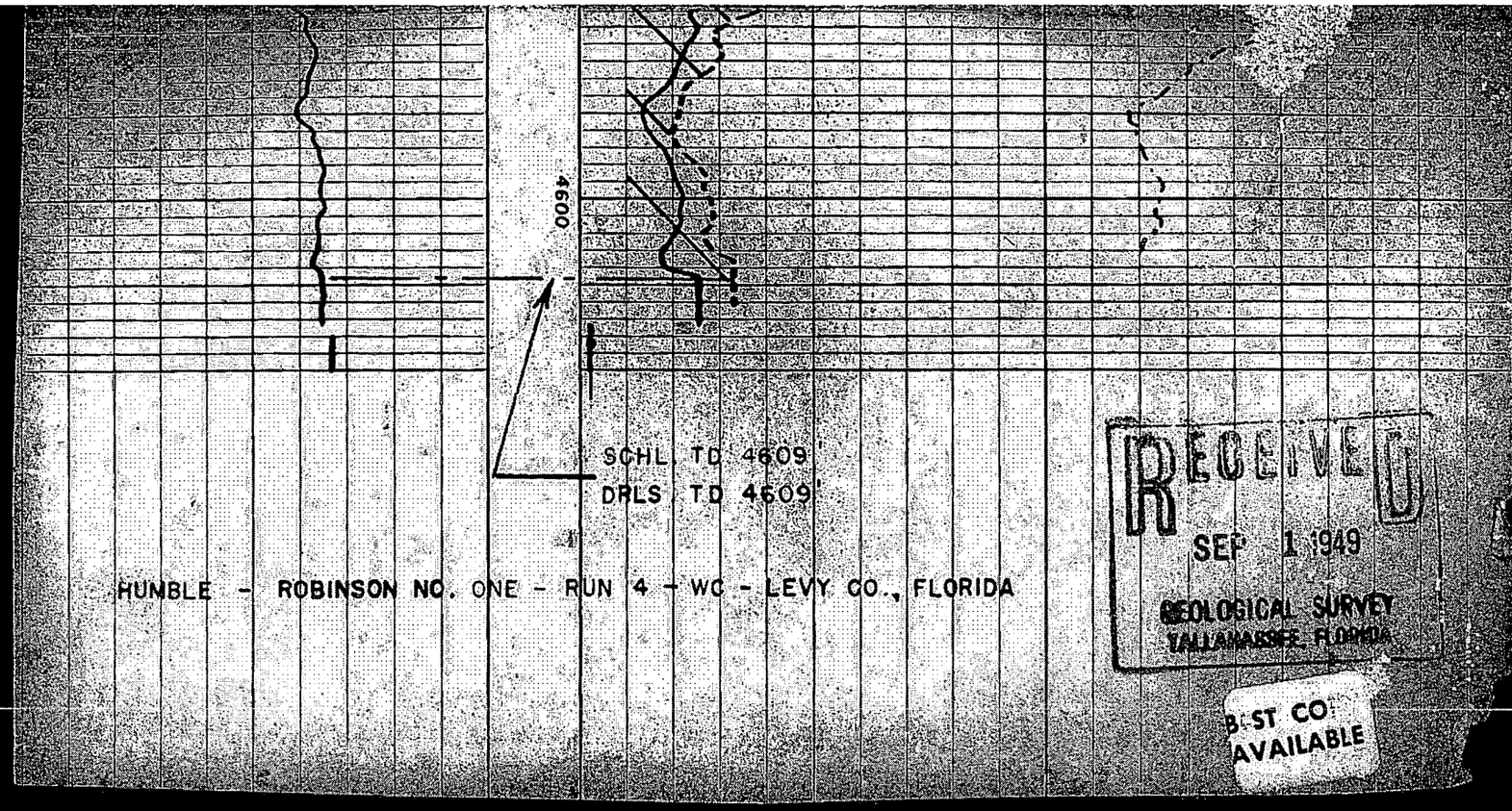
SCHL. TD 4609'
DRLS. TD 4609'
RECEIVED



RECEIVED
SEP 1 1949
GEOLOGICAL SURVEY
TALLAHASSEE, FLORIDA

BEST COPY AVAILABLE

 W-2166

(Driller's Log)
April 26, 1950

OWNER	:	J. A. Abbott
FARM NAME	:	Prudential Timber Co. No. 1 (Permit No. 110)
LOCATION	:	150' SE of Center of Sec. 34, T13S, R16E, 4 miles North of Gulf Hammock
COUNTY	:	Levy
ELEVATION	:	18'±
STARTED	:	June 14, 1949
COMPLETED	:	April 26, 1950
CASING	:	12" @ 45'; 6" swg @1450'; 4" swg @1540; 4-1/2" @1707 w/60 sx
DEPTH	:	2013'
DRILLER	:	
USE	:	Test for oil - dry and abandoned
REMARKS	:	216 samples from 75 to 1945' received by express prepaid, May 16, 1950. Driller's log from 0 to 1719'. 4 samples, 1940-2013', received by parcel post from W. A. Walsingham, Gulf Hammock, Fla., June 26, 1950. No Schlumberger run.

DEPTH	FORMATION	COMMENT:
0-11	Sand	Well started June 14, 1949
11-30	Rock and sand	
30-45	Brown lime with shells	
45-120	Hard brown lime	12" pipe set to 45'
120-130	Hard brown lime	
130-140	Brown lime	Water bearing
140-155	Soft lime	" "
155-215	Soft lime	" "
215-217	Hard lime	
217-300	Blue-gray soft lime	
300-325	Hard white lime	
325-360	Hard brown lime	Water began to flow
360-425	Soft lime	Water increased
425-460	Light brown lime	
460-540	Dark brown lime	
540-625	Hard lime	Water bearing
625-660	Soft lime and mud	No water
660-680	Hard lime	
680-685	Hard brown lime	
685-740	Soft brown lime with mud seams	
740-745	Hard brown lime	
745-750	Soft lime	
750-768	Hard broken lime	
768-775	Hard lime	
775-780	Broken lime	

DEPTH	FORMATION	COMMENT
780-810	Very hard lime	
810-830	Broken lime with soft streaks	Strong sulfur content
830-896	Light gray soft lime	
896-900	Hard gray lime	
900-910	Soft lime	
910-912	Hard lime	
912-935	Soft lime	
935-970	Hard lime	
970-980	Broken lime	
980-997	Cuttings flowed (997-1000) Hard lime	
997-1000	Soft lime	17 days to drill 1000 feet
1000-1017	Hard lime	Water bearing
1017-1023	Hard lime	No water
1023-1030	Soft breaks of mud	
1030-1080	Hard lime	
1080-1090	Brown lime	
1090-1096	White chalk	
1096-1100	Hard lime	
1100-1101	Break in lime	
1101-1125	Hard lime	
1125-1200	Soft lime	
1200-1235	Hard brown lime	
1235-1244	Hard lime	
1244-1252	Soft lime	
1252-1292	Hard lime	(1252-1255), cavity with water)
1292-1294	Soft lime	
1294-1333	Hard lime	
1333-1345	Light gray lime	
1345-1355	Hard light gray lime	
1355-1367	Dark brown lime	
1367-1369	Soft lime	
1369-1402	Hard lime	
1402-1406	Break in lime	More water
1406-1436	Blue-gray lime, hard	
1436-1440	Blue shale	
1440-1443	Hard granite	
1443-1452	Blue-gray shale	
1452-1477	Hard rock	
1477-1483	Hard lime	
1483-1485	Break in lime	Water
1485-1491	Hard lime	
1492-1495	Break in lime	Water
1495-1500	Hard lime	
1500-1503	Soft brown lime	
		No records kept from 1503-1569
1569-1570	Very soft chalk	
1570-1580	Gray limestone	Drills good
1580-1585	Gray lime	Drills hard
1585-1590	Gray lime	Drills good

DEPTH	FORMATION	COMMENT
1590-1600	Gray lime	very soft
1600-1610	Light brown lime	Very soft
1610-1613	Brown lime	Hard
1613-1620	Brown lime	Soft
1620-1625	Brown lime	Hard
1625-1630	Brown lime	Hard
1630-1635	Brown lime	Soft
1630-1635	Brown lime	Soft
1635-1638	Brown lime	Soft
1638-1643	Brown lime	Very porous and soft
1643-1646	Brown lime	Hard
1646-1649	White chalky lime	Very soft
1649-1650	Brown lime	Medium hard
1650-1654	Brown lime	Hard
1654-1660	Brown lime	Soft
1660-1665-	Brown lime	Hard
1665-1666	Brown lime	Hard
1666-1670	Brown lime	Medium hard
1670-1675	Brown lime	Very hard
1675-1677	Brown lime	Very hard
1677-1680	Brown lime	Medium hard
1680-1685	Gray lime	Hard
1685-1690	Brown lime	Very hard
1690-1695	Gray-brown lime	Hard
1695-1699	Brown lime	Soft
1699-1715	Brown lime	Hard
1715-1718	Brown lime	Soft
1718-1719	Brown lime	Hard
1719-1740		No records

W-2166
(R. O. Vernon)
May 31, 1950

OWNER	:	J. A. Abbott
FARM NAME	:	Prudential Timber Co. #1 (Permit #110)
LOCATION	:	150' SE of Center of Sec. 34, T13S, R16E, 4 miles N. of Gulf Hammock
COUNTY	:	Levy
ELEVATION	:	18'±
STARTED	:	June 14, 1949
COMPLETED	:	April 26, 1950
CASING	:	12" @45'; 6" swg@1450'; 4" swg@1540'; 4-1/2" @1707 w/60 sx.
DEPTH	:	2013'
DRILLER	:	
USE	:	Test for oil - dry and abandoned
REMARKS	:	216 samples from 75 to 1945', received by express prepaid, May 16, 1950. Driller's log from 0 to 1719'. 4 samples, 1940-2013' received by parcel post from W. A. Walsingham, Gulf Hammock, Florida, June 26, 1950. No schlumberger run.

No samples to 75' - Sand?

UPPER MIDDLE EOCENE - Avon Park limestone

75-80	Brown, finely crystalline, dense, hard dolomite with seams of cream, chalky, fossiliferous limestone containing Coskinolina floridana, Dictyoconus cookei.
95-100	Dolomite above and with streaks of brown, cryptocrystalline, dense, harder dolomite; and brown, hard, finely crystalline dolomite with much fossil mold porosity
110-115	Tan, finely crystalline, hard, fairly dense dolomite
125-130	Light brown, very hard and dense, cryptocrystalline dolomite with seams of fossil mold porosity
140-145	Tan, soft but tough, pasty dolomite. Excellent porosity made by numerous mollusk molds
155-160	Tan to brown, very finely crystalline, soft, fairly dense dolomite with seams of fossil mold porosity
170-175	Cream, soft and tough, pasty dolomite with fair fossil mold porosity; tan finely crystalline, dense, hard dolomite
185-190	Cream, pasty to subangular, soft and tough dolomite with many fossil molds and good porosity
205-210	Dolomite of 185-190 with seams of gray to brown, hard, dense dolomite
235-240, 255-260	Light gray, pasty, soft-tough, fairly porous but impervious dolomite; seams of gray, dense, hard dolomite

265-270	Same as 235-240 with seams of brown, finely crystalline, very porous dolomite
285-290	Same as 235-240
295-300, 305-310	White to cream, pasty, soft and tough, fairly dense dolomite. Seams of low porosity

LATE MIDDLE EOCENE: Lake City limestone

315-320	Cream, pasty dolomite as 295-300 and tan, cryptocrystalline, dense, hard dolomite containing black to brown chert and rare carbonaceous seams
325-330	Tan, dense, hard, cryptocrystalline dolomite; tan, pasty, soft and tough, porous dolomite with carbonaceous seams; brown, translucent chert; brownish-gray, very fissile, waxy clay or shale equals volcanic ash?
240-245	Brown, finely crystalline, hard, fairly dense dolomite with seams of intercrystalline porosity
360-365, 380-385	Tan dolomite as above, finely granulated by bit
395-400	Brown, finely crystalline, hard dolomite; with fossil mold porosity and peat seams; tan to cream, sub-granular to oolitic, very porous limestone with poorly preserved, large Dictyoconus sp. and many vug calcite crystals
405-410	Brown, pasty to finely crystalline, porous, soft dolomite
420-425	Tan, finely crystalline, hard, fairly dense dolomite
445-450	Light brown, finely crystalline, hard, fairly porous dolomite with peat seams
460-465	Brown, finely crystalline, hard dolomite with much fossil mold porosity and a few vug calcite crystals
470-475	Dolomite same as 460-465, more dense
480-485, 495-500	Brown, finely crystalline, slightly porous, hard dolomite; peat seams
510-515, 525-530	Tan dolomite as 480-485
535-540	Brown, finely crystalline, porous (fossil molds) hard dolomite; tan to brown, granular with crystals filling the porosity, hard, dense limestone; cream, porous, chalky dolomite
570-575	Cream, finely to cryptocrystalline, hard, dense limestone; brown to gray, hard, dense, finely crystalline dolomite
575-580	Brown, finely crystalline, dense, hard dolomite
585-590	
590-595	Dolomite same as 575-580 - tan and more finely crystalline
600-605	Partly dolomitized, granular limestone; grading into brown, dense, sugary crystalline dolomite
605-610, 615-620	Same as 585-590
630-635, 645-650	A coquina of Dictyoconus americanus and associated foraminifers in a cream, pasty to granular, soft limestone matrix
655-660, 665, 670, 670-680, 680-690, 695-705, 705-715, 715-725	Same limestone as 630-635, the matrix having been altered to brown calcite crystals, and the fossils being only poorly preserved. A Lepidocyclina, Amphistegina lopeztrigoi, Lochartia cushmani, Fabiania cubensis are all prominent.

725-735 Light tan to cream, granular, porous, soft limestone containing many foraminifers as above and much crystalline calcite

740-750 Limestone of 725-735 and brown, sugary, crystalline, hard dolomite

755-760 Dark brownish-gray, finely crystalline to oolitic, porous to dense dolomite

770-775, 775-780, 780-785, 785-790, 790-795,

795-797 Brown, gray speckled, partly dolomitized, pasty limestone with brown, crystalline porosity fills. Few poorly preserved foraminifers of "cones" some of which are Dictyoconus americanus.

795-800 Brown, sugary, crystalline, soft dolomite

800-805 Same as 770-775

809-814 (2), 814-819, 814-820,

820-830 Cream to light brown, granular, porous, soft limestone with rare foraminifers and abundant echinoid fragments. Some sections near Periarchus. Amphistegina lopeztrigoi, Gunteria floridana

830-840 Same limestone as 809-814, finely granulated

840-850, 850-860, 860-870, 870-880, 880-890

Same as 809-814, some samples of which are finely granulated

EARLY MIDDLE EOCENE - Oldsmar limestone

890-900, 900-910, 910-920 Light brown, granular, soft, porous limestone Helicostegina gyralis

950-955, 955-960 Light brown, cryptocrystalline, hard, dense limestone. Seams of limestone above

960, 960-965, 965-970 Limestone of 950-955, finely granulated

970-980, 970-980, 980-985,

985-990 Tan to light gray, cryptocrystalline, hard, dense, dolomitic limestone Some of which is sub-lithographic

1003 Light brown, white speckled, soft, porous, finely granular to oolitic dolomite.

1015-1020, 1020-1025, 1025-1027, 1027-1033, 1029-1/2

Light brown, coarsely crystalline, sugary, hard, dense dolomite and dolomite of 970-980 - granulated

1035-1040,

1040-1045 Increase in coarsely crystalline, dolomite over the dense dolomite Scattered gypsum

1045-1050, 1050-1055, 1055-1060 Tan limestone, sugary, crystalline, hard, and brittle; scattered gypsum. A rough lamination made by a gray mineral, which is probably discolored calcite

1060-1065, 1070-1075, 1075-1080 Cream, granular, porous, soft limestone made up largely of foraminifers in a pasty matrix. Abundant Helicostegina gyralis. Some gypsum

1080-1085 Brown, sugary, crystalline, hard, dense dolomite with gypsum. Cream, pasty, porous limestone, studded with dolomite crystals

1085-1090 Tan, finely crystalline, hard, dense dolomite with much gypsum filling intercrystalline porosity

1090-1095 Tan, pasty, dense, soft dolomite studded with dolomite crystals and gypsum

1100-1105 Waxy- gypsum and tan, translucent chert

1110-1120, 1120-1130, 1130-1135, 1135-1140, 1140-1145 White to cream, pasty to subangular, porous, soft limestone with many brown calcite crystals set in the matrix. Some gypsum (cavings?). Poorly fossiliferous, rare Helicostegina.

1145-1150, 1150-1155, 1155-1160
Cream, cryptocrystalline to indurated, pasty, hard, dense limestone, poorly fossiliferous. Coskinolina elongata. Fragments of 1110-1120.

1160-1165 Tan to cream, pasty, soft, porous limestone equals fragments of 1145-1150

1165-1170 Same as 1145-1150

1170-1180, 1180-1190 Same as 1160-1165. Coskinolina and Helicostegina common

1195-1200, 1200-1205 Tan, finely granular, hard, dense limestone - poorly fossiliferous and granulated by bit

1205-1210, 1210-1220, 1220-1225-1230, 1230-1235, 1235-1240, 1240-1245
Cream, granular, soft, porous limestone and brown to black, translucent chert. Fragments of brown, finely crystalline, dense dolomite with peat flecks and a green and brown, fissile, waxy shale, volcanic ash (?) Miscellanea sp. (?)

1245-1250, 1250-1255, 1255-1265, 1265-1270 Tan, granular, soft, porous limestone, poorly preserved foraminifers common. Fossils as above. Lituonella, Helicostegina, Miscellanea, and others
Streaks of tan, hard, dense, cryptocrystalline limestone

1310-1315, 1315-1318, 1318-1320, 1325-1327,

1327-1330 Tan to light brown, hard, dense, coarsely crystalline, crystals intergrown, dolomite. Slight flaky fracture occasionally

1330-1332 Same, finely crystalline

PALEOCENE - Cedar Keys limestone

1335-1340, 1340-1345, 1345-1350, 1350-1355,

1355-1360 Cream, finely crystalline, very porous (spongy), soft and tough dolomite; light brownish-gray, finely crystalline, hard, dense dolomite. Borelis molds

1360-1365, 1365-1370, 1370-1375, 1380-1385

1390-1395 Light brownish-gray, finely crystalline, dense, hard dolomite. Seams of porous, spongy dolomite

1395-1400 Same, with medium brown streaks

1400-1405 Medium brown, porous, spongy, soft and tough dolomite

1405-1410 Tan, finely crystalline to pasty, soft, dense dolomite

1412-1418, 1418-1420,

1420-1425 Brownish-gray, finely crystalline, dense, hard dolomite

1425-1430, 1430-1435, 1435-1440
Same with fragments of medium gray, similar dolomite. Some vug remains. Pyrite common

1440-1445,

1445-1450 Tan and brown, porous, soft, sugary, crystalline limestone composed of calcite crystals loosely held together; light brownish-gray, hard, finely crystalline pyrite specked dolomite, very cavernous; dark brown, cryptocrystalline, hard, dense dolomite. The dense dolomite more prominent in lower samples

1450-1455 Dark brown, dense, hard, pyritic, calcareous clay breaking with an irregular jagged fracture

1455-1460,

1460-1465 Deep brownish-gray, hard, dense, finely crystalline, pyritic dolomite

1465-1470 Same, light brown

1470-1475 Same as 1455-1460

1475-1480,

1485-1490 Light brown clay as 1450-1455, one fragment of medium gray, dense, hard dolomite and one of cream, hard, glauconitic limestone with fossil molds

AUG
GEOLOGICAL SURVEY
TALLAHASSEE, FLORIDA

Form 9

STATE BOARD OF CONSERVATION
STATE OF FLORIDA

WELL RECORD

W-3342

INSTRUCTIONS: This record is to be filed with the Board within 30 days after completion of well.

FIELD: Wildcat COUNTY: Levy

SURVEY: T-13-S; R-16-E SEC. 31 T. 13-S R. 16-E

WELL LOCATION: Center of the NW¼ of NW¼ of SE¼, T-13-S; R-16-E.

DATE OF COMMENCING: July 30, 1954 DATE OF COMPLETION: August 17, 1954

NAME OF CONTRACTOR: Sunnyland Contracting Co., Inc.

OPERATOR: Sphinx Syndicate LEASE: Prudential Lumber Co. WELL No. 1

ELEVATION AT TOP OF OIL STRING CASINGHEAD: 26' DF

CASING LINER AND TUBING RECORD

STRING	SIZE	WT/FT.	NAME AND TYPE	AMOUNT Feet	AMOUNT Inches	DEPTH SET AT	PERFORATED From	PERFORATED To
1	16"	65#	Natl. API Smls	42		52'	-	-
2	10-3/4	32.75#	Lone Star API Smls	627		639'	-	-
3	7"	20#	Natl. API Smls	3502		3512'	-	-

CEMENT AND TESTING RECORD

SIZE OF HOLE	STRING	WHERE CEMENT PLACED	NUMBER SACKS OF CEMENT	METHOD USED	PRESSURE APPLIED IN TESTING	HARDNESS OF CEMENT DRILLED	KIND OF CEMENT
22"	1	52'	80	Halliburton	1000#	-	Common
15"	2	639'	465	Halliburton	1000#	-	Common
8-3/4"	3	3,512'	100	Halliburton	1000#	-	Common

DRILL STEM TEST

FROM	TO	CHOKES	TIME	W. P.	B. H. O. P. No.	B. H. C. P. No.	RESULTS
-	-	-	-	-	-	-	-

(DRY HOLE)

INITIAL PRODUCTION TEST

DATE TAKEN: -

OILS: - BBLS. GAS: - G.O.R.: -

WATER: - BBLS. T.P.: - C.P.: -

CHOKE SIZE: - SIZE WORKING BARREL: - LENGTH OF STROKE: -

NUMBER STROKES PER MINUTE: - HOURS DURATION OF TEST: -

CHEMICAL OR SHOOTING RECORD

SIZE	CHEMICAL OR EXPLOSIVE USED	QUANTITY	DATE	DEPTH
-	-	-	-	-

(OVER)

CONDENSED DRILLER'S LOG

0'	to	52'	-	Sand & Lime
52'	to	130'	-	Lime Rock
130'	to	283'	-	No Returns
283'	to	380'	-	Hard Lime Rock
380'	to	648'	-	No Returns
648'	to	775'	-	Sand & Lime
775'	to	907'	-	No Returns
907'	to	1,114'	-	Lime
1,114'	to	1,307'	-	Water flow, no cuttings
1,307'	to	1,390'	-	Sandy Lime
1,390'	to	1,531'	-	Sandy Lime & Lime Rock
1,531'	to	1,632'	-	Lime & Water Flow
1,632'	to	1,890'	-	Lime Streaks & Sandy Lime
1,890'	to	2,175'	-	Lime & Sand
2,175'	to	2,378'	-	Sand, Lime, Shale & Water Flow
2,378'	to	2,506'	-	Lime & Sand
2,506'	to	2,660'	-	Shale, Lime & Water Flow
2,660'	to	2,965'	-	Sandy Lime & Chalk Streaks
2,965'	to	3,210'	-	Chalk & Shale
3,210'	to	3,535'	-	Chalk & Water Flow
3,535'	to	3,586'	-	Lime, Sand & Shale
3,586'	to	3,642'	-	Shale
3,642'	to	3,696'	-	Sandy Lime
3,696'	to	3,812'	-	Sand & Shale
3,812'	to	3,836'	-	Quartzite
3,836'	to	3,841'	-	Red Sandy Shale
3,841'	to	3,857'	-	Hard Sandy Lime Stone

" T. D. - 3,857'"

well 199
W-3342

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Gamma Ray

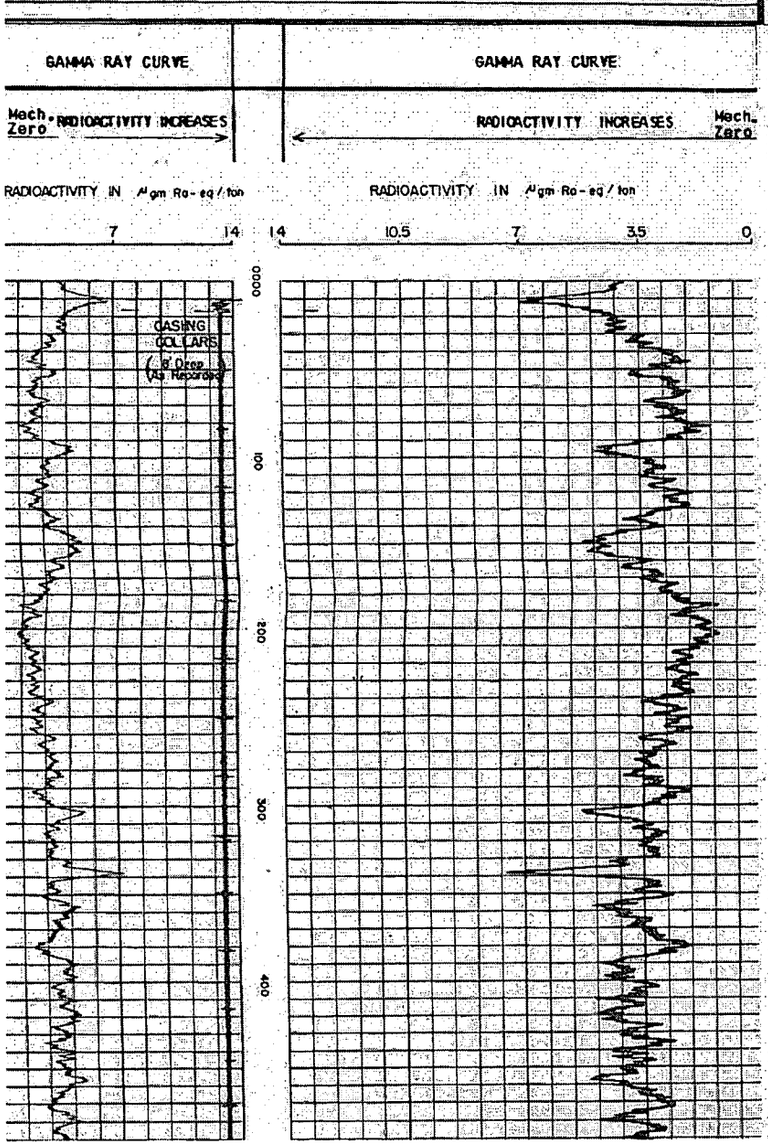
COUNTY WILDCAT
FIELD or LOCATION SEC-31-13S-16E
WELL PRUDENTIAL LUMBER COMPANY #1
COMPANY SPHINX SYNDICATE

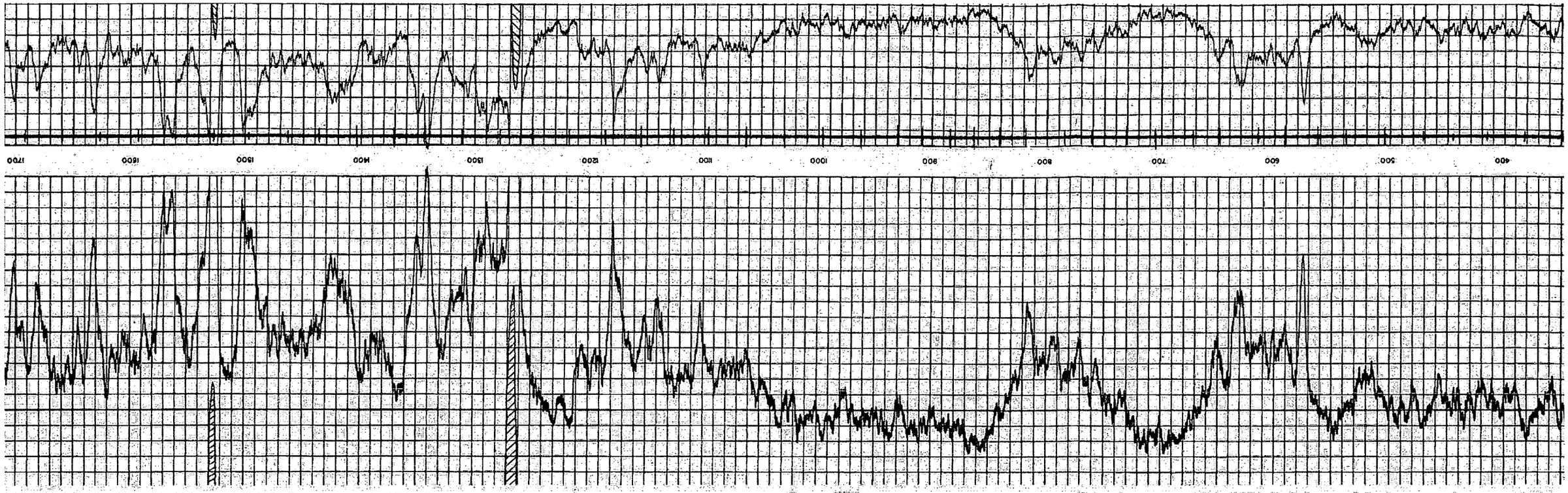
COMPANY SPHINX SYNDICATE
WELL PRUDENTIAL LUMBER COMPANY #1
FIELD WILDCAT
LOCATION SEC-31- 13S-16E
COUNTY LEVY
STATE FLORIDA

Location of Well
NW NW SE
GR (ES)
#199
Elevation: D.F. 26'
K.B.
or G.L.
FILING No.

RUN NO.	ONE		
Date	8-16-54		
Depth Reference	RDB (1' ABOVE ROTARY) OR 9.10' ABOVE BRADENHEAD		
First Reading	3848		
Last Reading	0		
Footage Measured	3848		
Max. Depth Reached	3851		
Bottom Driller	3857		
Maximum Temp. °F.	118		
Mud: Nature	AGUAGEL-BAROID-TANNEX-CAUSTIC SODA		
" Density	9.6		
" Viscosity	45 (PIT)		
" Resistivity	1.40 @ 90 °F.	@ °F.	
Casing Size & 1	10 3/4" to 550'	to	
Weight 2	7" to 3466'	to	
Open Hole 1	6 1/8" to 3850'	to	
2	6" to 3857'	to	
Recording Speed (ft/hr)	720 FT/HR.		
No. Counters Used			
Time Constant	7		
Sensitivity Tap	0 TO 3466'-4; 3466' TO 3849'-14		
Panel			
Truck No.	1778		
Observer	LUSK		
WITNESS	WHEELER-TREADWAY-McLAURIN-WALSINGHAM-KEHOE		

REMARKS CASING COLLAR LOCATOR POSITIONED 8' ABOVE ZERO POINT OF GAMMA RAY.

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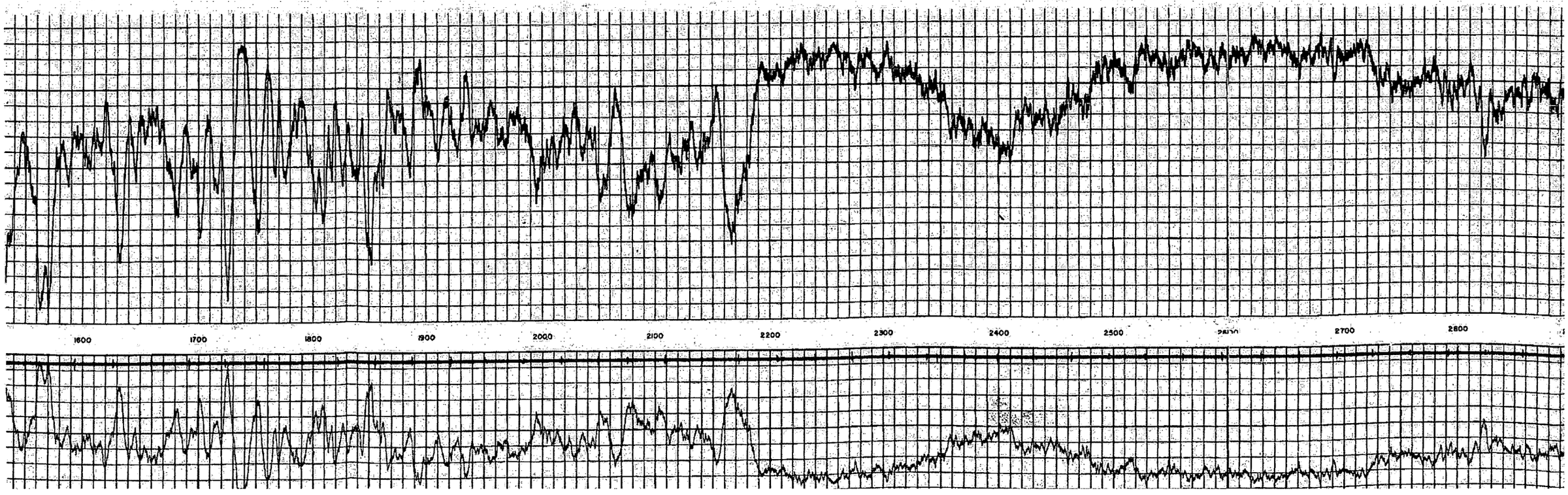
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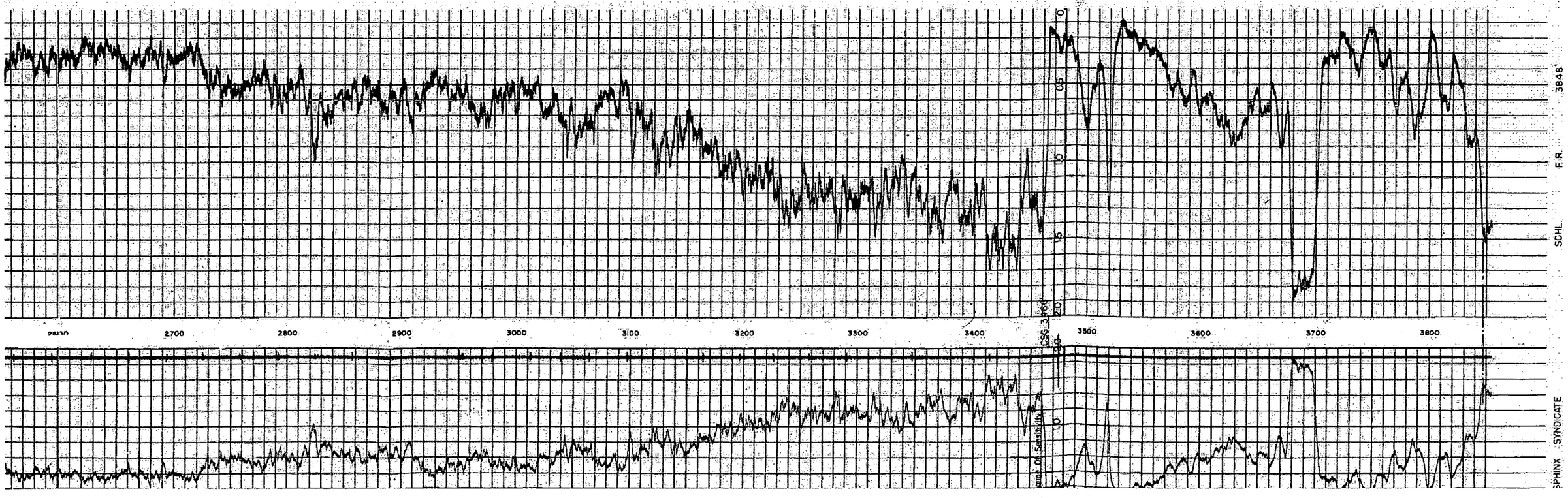
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3100
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3500
3600
3700
3800
CSG 3765'
Mag. Of Sensitivity
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0.5
1.0
1.5
2.0
2.5
3.0
SCHL.
F.R.
3848'
SPHINX SYNDICATE

DT 199 34991-G

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Electrical Log

COUNTY LEVY
FIELD or LOCATION WILDCAT
WELL SEC-31-13S-16E
COMPANY PRUDENTIAL LUMBER COMPANY #1
SPHINX SYNDICATE

COMPANY SPHINX SYNDICATE
WELL PRUDENTIAL LUMBER COMPANY #1
FIELD WILDCAT
LOCATION SEC-31-13S-16E
COUNTY LEVY
STATE FLORIDA

Location of Well: NW NW SE

ES (GR)

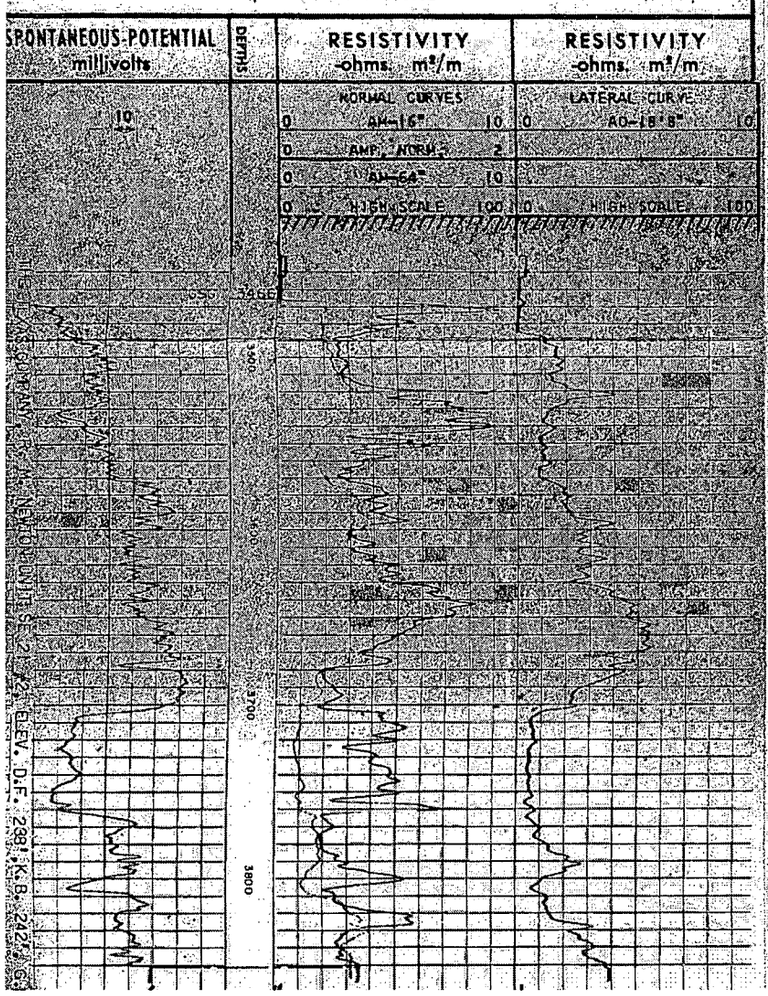
Elevation: D.F. 26'
K.B.
or G.L.

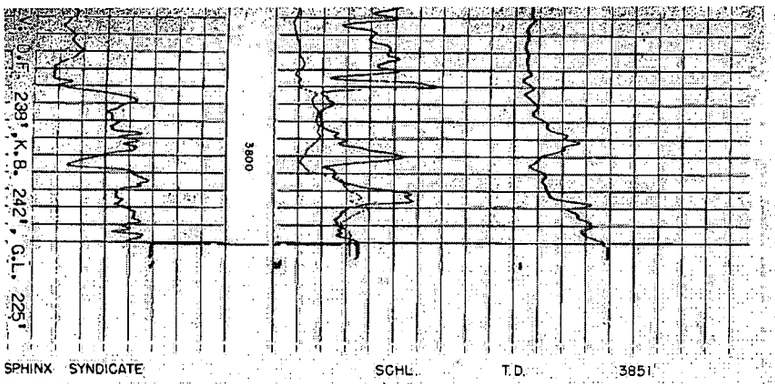
FILING No.

RUN No.	ONE				
Date	9-16-54				
First Reading	3851				
Last Reading	3466				
Feet Measured	385				
Csg. Schlum.	3466				
Csg. Driller	3512				
Depth Reached	3951				
Bottom Driller	3957				
Depth Datum	RDB (1' ABOVE ROTARY) OR 9.60' ABOVE BRADENHEAD				
Mud Nat.	AQUAGEL-BAROID-TANNEX-CAUSTIC SODA				
Density	9.6				
Viscosity	45 (PIT)				
Resist.	.40 @ 90 °F	@ °F	@ °F	@ °F	@ °F
Res. BHT	.10 @ 118 °F	@ °F	@ °F	@ °F	@ °F
pH	NA @ °F	@ °F	@ °F	@ °F	@ °F
Wtr. Loss	NA CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	118				
Bit Size	6-1/8" TO 3950; 6" TO 3957				
Spcgs. - AM	16"				
A	64"				
AO	18'8"				
Opr. Rig Time	1½ HRS.				
Truck No.	1778				
Recorded By	LUSK				
Witness By	WHEELER-TREADWAY-McLAURIN-WALSINGHAM-KEHOE				

REMARKS

A RILEY REPRODUCTION
Reg. No. 579892





SPHINX SYNDICATE SCHL. T.D. 3851'
PRUDENTIAL LUMBER CO. NO. 1 DRLR. T.D. 3857'
WC., LEVY CO., FLA.

RS 1044

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

Gamma Ray

FIELD or LOCATION: WILDCAT SEC-31-13S-16E
WELL: PRUDENTIAL LUMBER COMPANY #1
COMPANY: SPHINX SYNDICATE

COMPANY SPHINX SYNDICATE

WELL PRUDENTIAL LUMBER COMPANY #1

FIELD WILDCAT

LOCATION SEC-31- 13S-16E

COUNTY LEVY

STATE FLORIDA

Location of Well

NW NW SE

GR (ES)

Elevation: D.F. 26'
K.B.
or G.L.

FILING No.

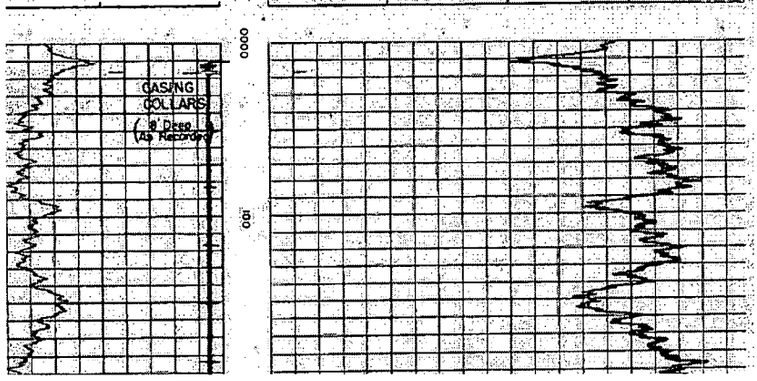
RUN NO.	ONE	
Date	8-16-54	
Depth Reference	RDB (1' ABOVE ROTARY) OR 9.10' ABOVE BRADENHEAD	
Last Reading	3848	
First Reading	0	
Footage Measured	3848	
Max. Depth Reached	3851	
Bottom Driller	3857	
Maximum Temp. °F.	118	
Mud: Nature	AGUAGEL-BAROID-TANNEX-CAUSTIC SODA	
Density	9.6	
Viscosity	45 (P.)	
Resistivity	1.24 @ 90 °F.	@ °F.
Casing Size & 1	10 3/4" to 550'	to
Weight 2	7" to 3466'	to
Open Hole 1	6 1/8" to 3850'	to
2	6" to 3857'	to
Recording Speed (ft/hr)	720 FT/HR.	
No. Counters Used		
Time Constant	7	
Sensitivity Tap	0 TO 3466'-4; 3466' TO 3849'-14	
Panel		
Truck No.	1778	
Observer	LUSK	
WITNESS	WHEELER-TREADWAY-McLAURIN-WALSINGHAM-KEHOE	

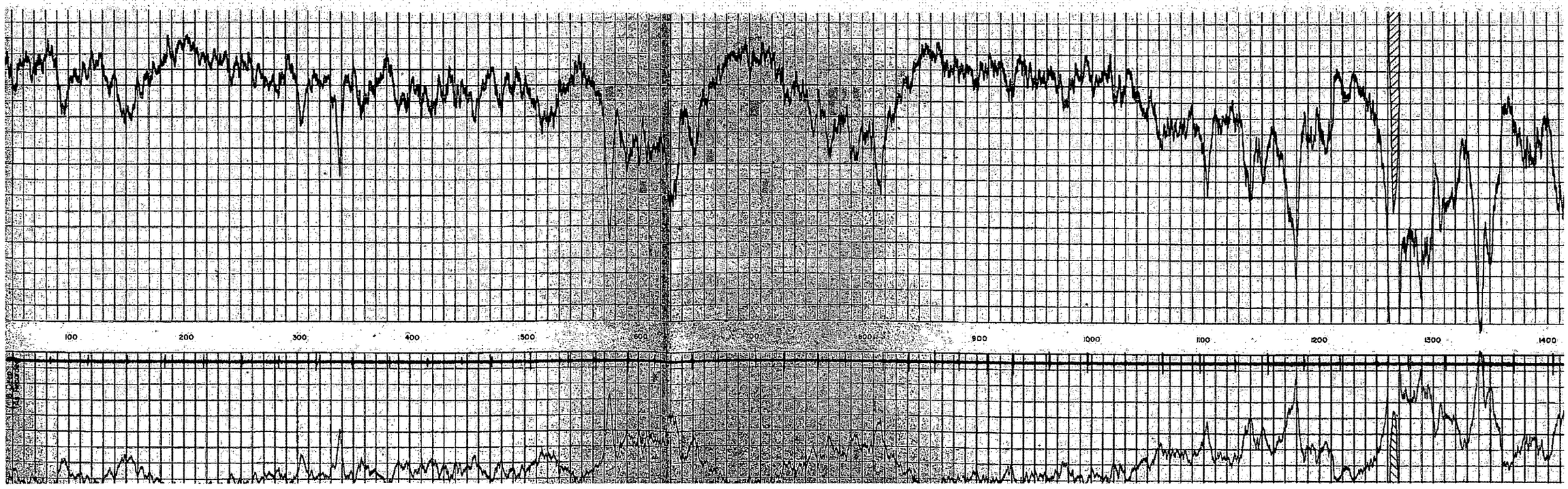
REMARKS CASTING COLLAR LOCATOR POSITIONED 8' ABOVE ZERO POINT OF GAMMA RAY.

GAMMA RAY CURVE		GAMMA RAY CURVE
Mech. Zero → RADIOACTIVITY INCREASES		← RADIOACTIVITY INCREASES Mech. Zero

RADIOACTIVITY IN μgm Ra-eq/ton. RADIOACTIVITY IN μgm Ra-eq/ton.

7 14 1.4 10.5 7 3.5 0

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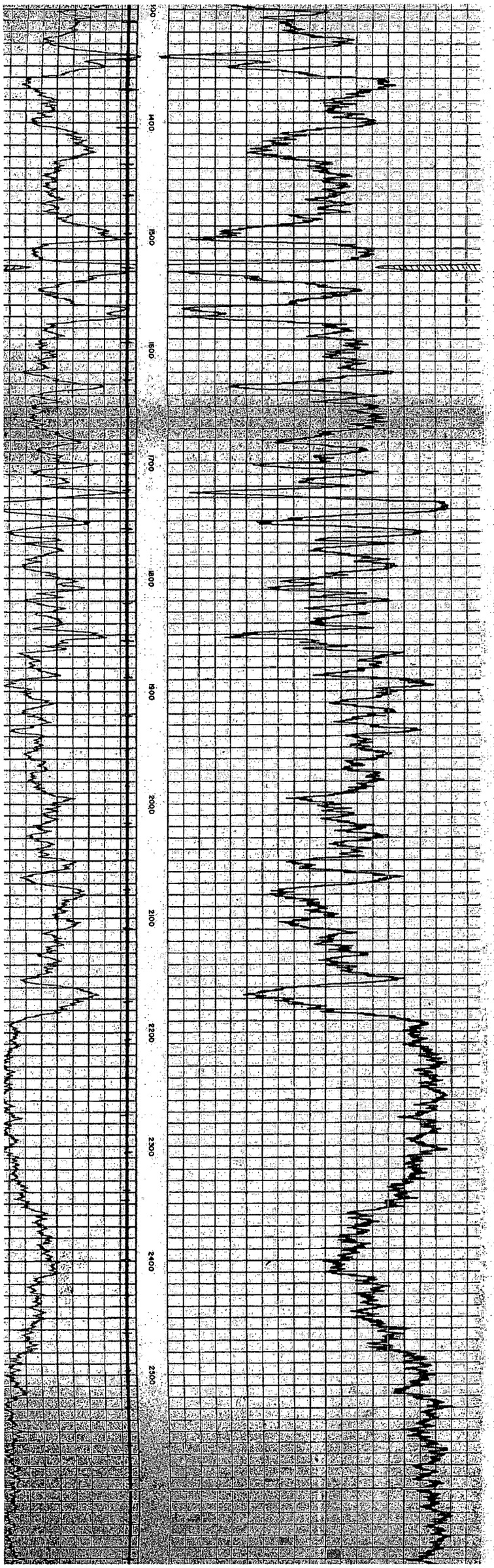
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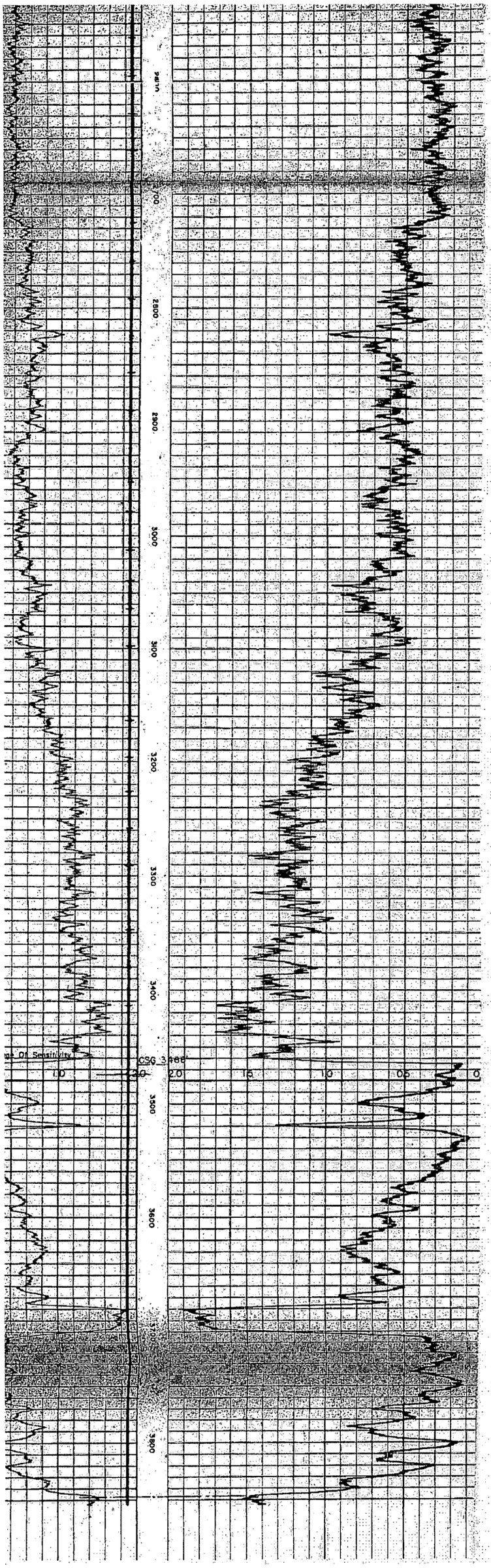
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