M-972
(Louise Jordan)
(Sun Oil Company

December 31, 1945

OWNER: Gulf Oil Corporation, Shreveport 93, La.
(P. O. Box 746, Key West, Florida)
LOCATION: 2310' E & 1390' N from SW Corner of Sec. 2, T67S, R29E, in Coupon Bight, Big Pine Key area.
COUNTY: Monroe
ELEVATION: 23' DF
SPUD D: November 7, 1945
COMPLETED:
CASING: 173' of 24"; 602' of 20"; 2984' of 13 3/8 "
DEPTH:
DRILLER: Lyle Cashion, Drilling Contractor, Houston, Texas.
MUD:
USE: Oil test
YIELD: DRAWDOWN:
QUALITY: TEMPERATURE:
REMARKS:

Cores and cuttings from 24 to 5007' of the above-cited well have been examined. Samples every 10 feet.

Description and age determinations as follows:

24- 34	Cutting	In PLEISTOCENE, Miami oolite, white soft fossiliferous chalk, abundant elongate oolites, ostracods common.
34- 44	"	Same.
50- 60	"	In PLIOCENE, White more crystallized porous slightly coquinoid limestone, shells, rare oolites, (large fragments only).
60- 70		Same, some carries rounded quartz grains.
70- 80		Same, one poorly preserved Amphistegina.
80-140	Cuttings	Same.

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140-150	Cutting	Limestone seems to be slightly softer, oolitic limestone not seen above, abundant small gastropods, corals, pelecypods, ostracods, Elphidium cf. fimbriatulum, Archaias? sp., and Rotalia.
150-170	Cuttings	Same.
170-180	Cutting	White very fossiliferous limestone (large pieces only) abundant shells, quite moldic, fairly porous.
180-200	Cuttings	Same.
200-230	"	Top POSSIBLE MIOCENE. White very fine moldic fossiliferous limestone slightly sandy.
230-240	Cutting	As above, more microfossiliferous and fairly sandy, large polished quartz grains.
240-280	Cuttings	White very sandy microfossiliferous granular limestone.
280-300	"	90% sand, loose, coarse, polished.
297-317	Core	Top DEFINITE MIOCENE. Cream dense fine crystalline limestone; greenish fine foraminiferal coquina, "spongy limestone", finely porous, granular appearance, contains abundant very fine small foraminifera poorly preserved.
317-327	"	Greenish fine foraminiferal coquina as above, a spongy limestone. Typical Miocene microfauna.
340-370	Cuttings	Same.
370-400	"	1" fragments of fossiliferous white dense limestone with coating of material above, apparently dense limestone layers in this "spongy" limestone.
400-430	"	As above, abundant Globigerina, Robulus vaughani, Uvigerina suberiana, Bolivina marginata multicostata, and other typical Miocene foraminifera.
430-470	"	Same.)
707-715	Core	Top POSSIBLE TAMPA. Light tan slightly dolomitic limestone, shells, miliolids, Sorites, Peneroplis.
715-735	Core	As above.

735-745	Cuttings	Cream moldic fossiliferous sandy limestone, shell molds, large fragments.
755-765	Cutting	Cream porous moldic fossiliferous limestone, somewhat dolomitized, large fossils common (bryozoan, gastropods, pelecypods, corals), abundant Amphistegina. Material more friable than above.
765-775	"	Cream porous coquina, slightly dolomitized, micro fauna abundant, abundant Amphistegina cf. chipolensis, Miogypsina sp.?, Sorites? sp.?
775-805	Cuttings	As above.
805-835	"	White microfossiliferous dolomitic chalk, abundant Amphisorus, Amphistegina.
835-845	Cutting	Top OLIGOCENE. Slightly change in lithology, white to light cream fossiliferous chalky coquina of foraminifers. First Miogypsina hawkinsi.
855-895	Cuttings	Same as above.
895-905	Cutting	Same, slightly dolomitic and perhaps slightly brownish argillaceous.
905-915	"	Same, with pustulose large Lepidocyclina seen in Oligocene, abundant Miogypsina.
915-955	Cuttings	As above.
955-985	"	Same, abundant Lepidocycline, Amphistegina.
985-995	Cutting	Dolomitic chalky light tan limestone, contains Miogypsina, Sorites, finely coquinoid.
995-1015	"	Same.
1015-1025	"	Slightly more dense and compact fossiliferous limestone, Archaias quite common.
1025-1045	"	Same.
1045-1055	"	White fine granular fossiliferous chalky limestone, Archaias common, Sorites, Amphistegina, small gastropods.
1055-1075	Cuttings	Same, Archaias common.

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1070-1080	Core	Cream very microfossiliferous rather dense limestone; shells common, Archaias, Borites, miliolids, abundant small turratellid gastropods.
1075-1085	"	Same as core above, Quinqueloculina leonensis, Archaias, Borites.
1085-1090	"	Light cream to drab gray fossiliferous dense and porous limestone. Dense material contains shells, Archaias, miliolids, vertical sections of a form which may be a Miogypsina. Porous material is composed of a fine coquina coated miliolid? Archaias and Amphisorus.
1090-1100	Cutting	As above, some white crystallized limestone with Peneroplis.
1100-1150	"	Same, some chert nodules in limestone.
1150-1160	"	Light cream moldic limestone, large fragments only.
1160-1190	Cuttings	Same as above.
1190-1200	Cutting	Top SUWANNEE MARL, STILL OLIGOCENE. Cream-colored coquinoid limestone, some quite dense; Coskinolina, Discorinopsis, Spiroloculina, Spirolina coryensis, Gaudryina sp.
1200-1210	"	Same but slightly lighter in color, Coskinolina associated in hard fragments with Peneroplis.
1210-1230	Cuttings	Same.
1230-1240	Cutting	Creamish white coquina, abundant Rotalia sp., fauna as above, also algal fragments.
1240-1290	"	Same, trace creamish-gray clay. IN OLIGOCENE.
1290-1310		Skip in samples.
NB		There is no evidence of OCALA in the cutting samples below.
1310-1315	Core	IN LEPIDOCYCLINA ZONE. (Avon Park of Applin and Applin) Light gray fine crystalline, finely porous dolomitic limestone, large flat Dictyoconus cookei, Spirolina coryensis, Valvulammina minuta, preservation of fauna and type of material quite different from that above.
1315-1320	"	Same.
1320-1329	"	Same type of material, quite porous, fauna as above, miliolids common.

1335-1355	Cuttings	As above.
1355-1405	Cutting	As above but slightly cream colored.
1400-1420	Core	Cream fine coquinoid finely porous slightly dolomitic limestone with Coskinolina, Spirolina, abundant Cyclammina watersi.
1500-1520	"	Cryptocrystalline dense tan limestone with gray nodular bodies, small miliolids. Fine crystal cavities, brown-stained?
1750-1770	"	Cream to tan coquinoid limestone, abundant Dictyoconus cookei, Coskinolina, Spirolina coryensis, Textularia coryensis, Cyclammina watersi, algal fragments, Coskinolina-Dictyoconus form, Lituonella liburnica.
2000-2020	"	Coquinoid limestone with Spirolina coryensis, abundant D. Cookei, Flintina avonparkensis, Coskinolina etc.
2020-2250		Skip in samples.
2250-2270	"	IN DICTYOCONUS AMERICANUS ZONE. (Lake City of Applin and Conklin) Light cream coquinoid limestone, abundant Dictyoconus cookei, Lockhartia cushmani, Epistomaria semimarginata, etc.
2514-2520	"	Light cream to white chalk, and light cream fine coquina.
2648-2654	"	Gray and tan dense fine crystalline dolomite.
2969-2978	"	Brown coarse sucrose porous dolomite; dark gray and brown dense coarse crystalline dolomite with chalky white coskinolinoids imbedded in dolomite.
2997-3007	"	Light cream-gray cryptocrystalline dense dolomite.

1830 Lake city CCC.
2250
top Lake city E. Appl
Oldsmar

SUMMARY

23-44	Cutting	In Pleistocene
44- 50	"	Skip in samples
50- 60	"	In Pliocene?
200-210	"	Possible top Miocene

S U M M A R Y (Continued)

297- 317	Core	Definite Miocene
707- 715	"	Top Possible Tampa
835- 845	Cutting	Top Oligocene, First Miogypsina hawkinsi.
1190- 1200	Cuttings	Top Suwannee fauna
1280- 1290	Cutting	In Oligocene
1290- 1310		Skip in samples
1310-1315	Core	In Lituonella zone (Claiborne) (Avon Park of Applin and Applin)
2220- 2250		Skip in samples
2250- 2270	Core	In Dictyoconus americanus zone (Lake City of Applin and Applin).
2997-3007	"	In Claiborne-Wilcox? No definite fossil evidence for division of section below 2250-70'.

Yours very truly,

(signed) L. Jordan