

P#31

W. P. HAYMAN O. 1

OSCEOLA COUNTY, FLORIDA

Elev. 38 D.F.

Location: 31 7 - 33 1, Section 12, 1980' West of East Line & 660' North of South Line of Section 12.

Spudded: 8/23/46

Set 26" csg. & 57' w/50 sx cement.

Recemented w/50 sx

" w/67 sx

" w/135 sx

Drilled 57' to 400' w/partial returns & water

Set 20" csg. w/

Drilled 400' to 800' w/partial returns.

Lost circulation @ 800'. Drilled ahead w/water

Core #1 33' - 904' sec. 5'

cream to tan, hd, dolomite. Honey combed in

strks. Largely dense dolomite.

Bot. 3' showed, deposit of black carb. mat. in fractures.

do show. Good porosity.

Drilled 904' to 2,000' blind.

Core #2 2,000' - 2,015' sec. 6'

35' br. chalky, se, gray chert.

1' cream, chalky, dse, lime

1' hd, dse, gray chert.

Core #3 2,065' - 2,081' sec. 3'

2 1/2' light gray, firm to soft, sl. porous, vifos.,

granular, glauconitic limestone. 1/8.

1/2' li. gray, honey/combed, hd, cherty limestone

Drilled 2,081 to

Core #4 2,131' - 2,147' sec. 5'

2' cream, broken, por, li e with gray cementing material in broken areas. Ltk carboniferous material found in bedding plain 6" from top of core.

1' cream, por. li e containing some sd.

3' tan dense dol. honey combed in strks.

Core #5 2,197' - 2,203' sec. 5'

5' cream, porous, granular li e.

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CORE #6	2,258' - 2,260'	Rec. 1'
	1' Brown dense Dol. 1" dark gray Dol. in top.	
CORE #7	2,310' - 2,315'	Rec. 2'
	2' Brown dense honeycombed Dol.	
CORE #8	2,366' - 2,368'	Rec. 1½'
	1½' Brown dense Dol.	
CORE #9	2,458' - 2,459'	Rec. 3"
	3" Tan dense honeycombed Dol.	
CORE #10	2,509' - 2,513'	Rec. 2'
	2' Tan cherty honeycombed Dol.	
CORE #11	2,555' - 2,557'	Rec. 1½'
	1½' Same as above.	
CORE #12	2,607 - 2,612'	Rec. 1½'
	1½' Creamy granular lime.	
CORE #13	2,661' - 2,664'	Rec. 4"
	4" Light gray granular lime	
CORE #14	2,714 - 2,716'	Rec. 1½'
	1½' anhydrite	
CORE #15	2,766 - 2,768	Rec. 1½'
	1½' Light gray dense dolomite	
CORE #16	2,818' - 2,828'	Rec. 4'
	4' Tan fossiliferous lime with trace of anhyd.	
CORE #17	2,878' - 2,883'	Rec. 2'
	2' Same as above	
CORE #18	2,933 - 2,938'	Rec. 3"
	3" Tan chalky lime & Br. Dol.	
CORE #19	3,141' - 3,148'	Rec. 5½'
	5½' Anhyd.	
CORE #20	3,108' - 3,200'	Rec. 1½'
	Light grey granular dense dol. lime w/inf. of Anhy.	

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- CORE #21 3,250 - 3,255' Rec. 2'
Same as above w/str anhy.
- CORE #22 3,305 - 3,309' Rec. 2'
1½' Cr., dol. lm, 1/2' Anhy.
- CORE #23 3,359 - 3,362' Rec. 2'
2' Tan granular dense lime, trace anhy.
- CORE #24 3,412 - 3,425' Rec. 3½'
1' Tan granular dense lime
1' gray granular dense lime
1½' anhy.
- CORE #25 3,472 - 3,477' Rec. 4'
4' Anhy.
- CORE #26 3,527 - 3,532' Rec. 3½'.
Anhy w/thin intrusions of Cr. chalky lime.
- CORE #27 3,582 - 3,587' Rec. 4'
Anhy w/thin intrusions like above
- CORE #28 3,637 - 3,642' Rec. 2'
6" Cr., sl. chalky, gran. dol. lm. Tr. Anhy. int.
1'6" Anhy.
- CORE #29 3,717' - 3,722' Rec. 4'
Anhydrite.
- CORE #30 3,797 - 3,802' Rec. 0' No Rec.
Chalk on bit.
- CORE #31 3,877 - 3,887' Rec. 7½'
7' Anhydrite
½' Gray, por., gran., gos. dolomite. Scattered
Anhy. pebbles.
- CORE #32 3,962 - 3,982' Rec. 6'
Cr. to tan, V. gran., oolitic dol. lime. Fos.
Tr. Anhy.
- CORE #33 4,057 - 4,077' Rec. ? 7 pieces - probably
boulders that fell
into hole from above.

Questionable Recovery - Large pieces of
Anhy, dol. & dol. lime.

NOTE: Formation drilled like chalk.

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Ran Schl. @ 4,122 Brlr. T. D. Schl. T. D. 4,114'

Set 9 5/8" csg. @ 3,901'

CORE #34 5,804 - 5,807' Rec. 3'
Wh. chalky lime w/stk of lignite

Drilled 5,807 to 6,080'

CORE #35 6,080 - 6,085' Rec. 1'
Light gray, dse., chalky lime. Tr carb. mat.

Drilled 6,085 to 6,321'

CORE #36 6,321 - 6,326' Rec. 4'
2" Gray Cal. shale.
2' Dark gray ring tail sh.

CORE #37 6,326' - 6,333' Rec. 7' ✓
7' Dark gray Cal. sh.

CORE #38 6,333' - 6,353' Rec. 6'
6' Dark gray cal. sh.

CORE #39 6,353' - 6,373' Rec. 18'
18' Dark green to gray sh with bands of
tan lime, fossiliferous, with oyster shells.

CORE #40 6,373' - 6,383' Rec. 9'
9' Shaly fossiliferous gray lime, last 6"
was tan porous dol. lime. Top line 6,382

CORE #41 6,383' - 6,393' Rec. 3'
3' Tan porous honeycombed porous dol. lime.

CORE #42 6,393 - 6,398 Rec. 1'
6" Dark gray Shly. lime
6" Br to gray f. G. Dol.

CORE #43 6,398' - 6,403' Rec. 5'
6" Light tan porous honeycombed lime, Sulphur odor.
4' 6" Light tan dol. lime w/stks of blk. carbonaceous mt.
salty taste.

CORE #44 6,403 - 6,413 Rec. 3'
1' Light tan dse lime w/stks carb. sh.
2' Tan to gray broken f.G. dol. lime, has chalky
appearance.

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- CORE #45 6,413 - 6,418 Rec. 4'
- 4' light tan Dol. lime w/stks
 carb. matl. last 2" porous honeycombed gray
 fossil. dol. lime.
- CORE #46 6,418 - 6,423 Rec. 3'
- 1' light tan porous dol. lime, chalky appearance
 2' L. tan to gray f. g. Dol. lime w/stks
 carb matl.
- CORE #47 6,423 - 6,428 Rec. 5' ✓
- Salty Taste
 1' lt. tan porous lime w/ stks
 carb. matl. and odor of sulphur.
 Slightly chalky.
- CORE #48 6,428 - 6,433 Rec. 1 1/2'
- 1' lt. tan slightly porous lime w/stks
 carb. mat. sulphur odor. slightly
 chalky appearance.
- CORE #49 6,433 - 6,438 Rec. 5'
- 1' lt. tan porous lime w/stks
 carb. matl. - slightly chalky appearance.
- CORE #50 6,438 - 6,443 Rec. 5'
- 1' Lt. gray ls. some oolitic ls.
 2' Gray ls. partly oolitic & shly
 3' Lt. Tan dol. ls. with stylolites
 of blk carb. matl.
- CORE #51 6,443 - 6,448 Rec. 4 1/2'
- 1 1/2' Lt. tan to gray mottled ls.
 stylolitic texture.
 3' Lt. gray lime w/calcite sh.
- CORE #52 6,448 - 6,453 Rec. 4'
- 2' Lt. tan to gray mottled lime with
 stylolitic texture
 2' Dark gray calcareous sh
- CORE #53 6,453 - 6,463 Rec. 9'
- 1' Dark gray calcareous sh.
 8' Lt. tan to gray mottled ls.
- CORE #54 6,463 - 6,473 Rec. 9'
- 1' Calcareous dark gry sh
 5' Mottled Lt. tan to gray lime (Pores filled with colored Calcitic m)
 3' Lt. tan to gray f. g. porous dol. lime

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CORE #55	6,473 - 6,479	Rec. 2 1/2'	
	1' Lt. tan gray mottled ls		3% gas
	1' Gray Dol. lime porous in stks		Dry 2%
	6" Gray porous dol. lime & stks of blk sh.		Wet 1%
	Shale in cuttings.		
CORE #56	6,479 - 6,484	Rec. 4 1/2'	
	1' Lt tan lime		
	1 1/2' Lt. tan to gray porous dol. lime		3% Dry
	1 1/2' Lt. tan, broken, porous, Dol. lime chalky appearance with broken areas.		1% Wet
CORE #57	6,484 - 6,494	Rec. 9'	
	6" Tan porous lime		
	1' Tan light speckled lime w/stk blk earthy ntl.		3% dry 2% wet
	3 1/2' Tan very porous lime good salty taste from core. Also vugs of anhy.		Pumped out 6% gas 5% wet 1% dry
CORE #58	6,494 - 6,502	Rec. 8'	
	4' tan to dark gray streaked shly lime		
	2' Tan lime w/stk of dark gry earthy ntl.		8% gas
	2' Tan very porous lime with vugs anhy.		4% dry 4% wet
CORE #59	6,502 - 6,512	Rec. 4'	
	1 1/2' Lt. tan to gray stk. dol. lime		3% dry
	2 1/2' Tan porous lime with blk sh partings and vugs of anhy.		3% wet
CORE #60	6,512 - 6,515	Rec. 3'	
	3' Tan porous dol lime		1% dry 1% wet
CORE #61	6,515 - 6,520	Rec. 2'	
	2' Tan porous dol. lime (salty)		1% dry 1% wet
CORE #62	6,520 - 6,525	Rec. 4'	
	2' Anhy.		2% dry
	2' Tan porous soft dol. lime		2% wet
CORE #63	6,525 - 6,532	Rec. 5'	
	5' Tan porous soft dol. lime		2% dry 2% wet

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CORE #64	6,532 - 6,537 5' Tan porous dol. line	Rec. 5'
CORE #65	6,537 - 6,542 5' Lt. tan porous w/stk of carb. matl. and anhy.	Rec. 5'
CORE #66	6,542 - 6,552 Lt Tan porous dol. with vugs & stks of anhy.	Rec. 10'
CORE #67	6,552 - 6,556 Lt tan porous dol w/stk and vugs of anhy.	Rec. 3'
CORE #68	6,556 - 6,566 8' Tan porous dol. w/stks carb. matl. Also vugs & bands of anhy.	Rec. 8'
CORE #69	6,566 - 6,573 Same as above.	Rec. 5'
CORE #70	6,573 - 6,583 Same as above.	Rec. 9'
CORE #71	6,583 - 6,591 Same as above w/bands of hard non- porous dol. line	Rec. 2'
CORE #72	6,591 - 6,596 Same as above	Rec. 2'
CORE #73	6,596 - 6,604 4' Tan porous dol & anhy 2' Green to gray mottled limy sh.	Rec. 6'
Ran Schlumberger @ 6,604' Dr T.D. Schlumberger T. D. 6,603'		
CORE #74	6,604 - 6,614 3' Tan to gray porous dol. w/ stk and vugs anhydrite and carb. matl.	Rec. 3'
CORE #75	6,614 - 6,624 Same as above	Rec. 3'

Drilled with plug 6,624 to 6,652 where 3 1/2 gas show

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CORE #76	6,652 - 6,655	Rec. 1½'
	Lt. Tan porous dol. ls	
	Drilled with plug to 6,682	
	Drilled with Rock Bit from 6,682 - 7,200'	
CORE #77	7,200 - 7,205	Rec. 5'
5'	Tan to gray dense granular dol. w/stks blk sh.	
CORE #78	7,205 - 7,211	Rec. 5'
5'	Tan to gray dense granular dol. w. stks blk sh, last 3" solid anhyd.	
CORE #79	7,211 - 7,212	Rec. 1'
1'	Tan xyl. dense dol. (Poker chipped in surface)	
CORE #80	7,211 - 7,216	Rec. 4'
4'	Brown to gray dol. w/stks of blk. sh. and vags of anhyd.	
CORE #81	7,216 - 7,221	Rec. 4'
4'	Brown to gray dol. lime w/stks blk sh and trace anhyd. Porous in stks	
CORE #82	7,221 - 7,230	Rec. 5'
5'	Gray porous dol. w/stks bk sh and vags of anhyd.	
CORE #83	7,230 - 7,235	Rec. 4'
4'	Gray porous soft dol. lime with vags anhyd.	
CORE #84	7,235 - 7,245	Rec. 4'
4'	Br. porous dol with gyp. xyls. & fibers in pores.	
CORE #85	7,245 - 7,250	Rec. 1½'
1½'	Same as above	
CORE #86	7,250 - 7,260	Rec. 5'
1'	Br. porous dol. with gyp. xyl. & fibers in pores.	
2'	mottled tan to br. dol. lime	
2'	Br. to dk gy. mottled dol. porous in stks.	

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CORE #87	7,260 - 7,270	Rec. 1'
	6" Br. to Dk gy. mottled dol.	
	6" Tan porous dol lime	
CORE #88	7,270 - 7,275	Rec. 2'
	2' Lt tan oolitic dol. lime w/trace anhy. & gyp.	
CORE #89	7,275 - 7,279	Rec. 1'
	1' Same as above	
CORE #90	7,279 - 7,284	Rec. 2½'
	2½' Brown dol. dense to slightly porous in stks. vugs anhy.	
CORE #91	7,284 - 7,286	Rec. 2' ✓
	2' Tan dol. dense.	
CORE #92	7,286 - 7,293	Rec. 3'
	3' Br. to tan dol. slightly porous	
CORE #93	7,293 - 7,303	Rec. 1'
	1' Tan to gray dol. lime, oolitic in part, w/stks of Fla sh.	
CORE #94	7,303 - 7,308	Rec. 1'
	1' Dk. br. porous to dense dol. small broken pieces of tan oolitic lime, tr. of anhy.	
CORE #95	7,308 - 7,313	Rec. 6"
	6" Tan oolitic dol. lime.	
CORE #96	7,313 - 7,316	Rec. 1½'
	1½' Gray to tan dol., very slight por. w/stk carb mtl. and tr. of anhy.	
CORE #97	7,316 - 7,321	Rec. 1½'
	1½' Dk gray to tan xyla. dol with vugs anhy. tan oolitic dol. ls in last 3" with clear gyp. replacements.	
CORE #98	7,321 - 7,324	Rec. 2'
	1½' Tan to gray dol. lime oolitic in stks., with vugs anhy slight por. in top 6".	
CORE #99	7,324 - 7,327	Rec. 1'
	1' Gray to tan dol. lime oolitic & porous in part. w/anhy vugs.	

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- CORE #100 7,327 - 7,337 Rec. 1½'
1½' Tan to gray dense dol. lime
w/vugs anhy.
- CORE #101 7,337 - 7,340 Rec. 3'
6" Tan dense xlyn. lime
4'6" laminated fossil. cal. sh.
- CORE #102 7,340 - 7,345 Rec. 5'
5' Tan to gray laminated fossil. cal.
sh. tr. anhy.
- CORE #103 7,345 - 7,353 Rec. 8'
Same as above
- CORE #104 7,353 - 7,361 Rec. 7'
Same as above
- CORE #105 7,361 - 7,365 Rec. 4'
Same as above
- Drilled from 7,365 to 7,431
- CORE #106 7,431 - 7,436 Rec. 5'
5' Anhy. with irregular thin gr. shly texture.
- CORE #107 7,436 - 7,443 Rec. 7'
5' Anhydrite with irregular thin shly
texture
2' Tan to light gray granular, slightly calcic
dol. ls 2" band of blk sh in bottom.
- CORE #108 7,443 - 7,448 Rec. 4'
4' Dk gray cal. sh with bands of gray f.g.
dol.
- CORE #109 7,448 - 7,458 Rec. 6½'
4' Gray calcareous sh. with spotted anhy.
stringers
2' Gray to dark gray calcareous sh with bedding
planes dipping at approximately 10° angle
2' Gray calcareous laminated sh.
Soft sticks may be gray bent. slick & nearly
dissolving.
- CORE #110 7,458 - 7,466 Rec. 8'
6' Gray dense laminated calcareous sh.
2' Dense granular broken dol. w/stks anhy.

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CORE #111 7,466 - 7,471 Rec. 5'
2' Tan dense dol.
3' Gray laminated calcareous sh.

CORE #112 7,471 - 7,476 Rec. 5'
1 1/2' Gray laminated sh w/spots anhy
3 3/4' Anhy. (Broken)

CORE #113 7,476 - 7,486 Rec. 6 1/2'
4' Anhy w/ stks sh.
2' Laminated gray cal. sh.
1/2' Brown porous dol. ls.

CORE #114 7,486 - 7,495 Rec. 6'
5' Gray to tan v.P. dol. ls
Br. stains in part, slight cut
with carbon tet. one piece looked as
if oil was bleeding very slightly around
pores.
1' Tight Lt. Gray dol w/spots anhy. core
badly burned with foul odor. No fluor. in stains

CORE #115 7,495 - 7,500 Rec. 5'
5' Grey to tan v.P. dol. ls
with trace anhy. greasy appearance in
spots, slight cut with carbon tet. No fluor.

CORE #116 7,500 - 7,502 Rec. 2'
2' Grey to tan v.P. dol ls
same as above.

Drill Stem Test. Packers set 7,466'
Tool open: 35 min., shut in 5 min.
Choke 3/8 Bottom 1/4 top
Minimum flowing pressure 2550 lb/sq in
Average " " 2550 "
Shut in " " 2500 "
Maximum surface pressure 2916 sq in

4,590' salt water, dl. 171,000 PPM Bot. PPM Top.

CORE #117 7,502 - 7,507 Rec. 2 1/2'
2 1/2' Gray to tan por. dol. ls.

CORE #118 7,507 - 7,510 Rec. 1 1/2'
1 1/2' Tan to grey dense dol. w/stks laminated
grey sh.

CORE #119 7,510 - 7,515 Rec. 2'
2' Tan to grey dol. porous in stks.
Vugs anhy. Salty taste.

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CORE #120	7,515 - 7,518	Rec. 2'
	Tan to gray porous dol w/stks gyp. in bottom.	
CORE #121	7,518 - 7,526	Rec. 3'
3'	Tan to gray dol. por. in stks. anhy. (lost rec. may be gyp.)	
CORE #122	7,526 - 7,530	Rec. 3'
2'	Gray por. speckled dol. w/stk of gray bentonite	
6"	Gray sh. with limey stks.	
6"	cherty f. g. col.	
CORE #123	7,530 - 7,537	Rec. 7'
	Tan to gray porous xly. dol. w/stks carb mtl. and spotted xly. & massive anhy.	
CORE #124	7,537 - 7,544	Rec. 7'
	Same as above Evidence of some cross bedding	
	No sample	
CORE #125	7,544 - 7,545	Rec. 6" ✓
	Same as above	
CORE #126	7,545 - 7,555	Rec. 6½'
	Same as above	
CORE #127	7,555 - 7,565	Rec. 2'
	Same as above More anhy. and gyp.	
CORE #128	7,565 - 7,574	Rec. 4'
	Same as above	
CORE #129	7,574 - 7,576	Rec. 1½'
	Tan dense dol. w/anhy vugs.	
CORE #130	7,576 - 7,585	Rec. 2½'
	Tan to gray dol w/stk anhy & sh. porous in stks.	
CORE #131	7,585 - 7,588	Rec. 1'
	Dark gray & tan dol. stks sh & vugs anhy. porous in stks.	

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- CORE #132 7,588 - 7,590 Rec. 0'
No rec.
- CORE #133 7,590 - 7,595 Rec. 2'
Gray to tan dol. porous in stks.
- CORE #134 7,595 - 7,599 Rec. 3'
3' gray dense to slightly porous dol.
broken into chips.
- CORE #135 7,599 - 7,609 Rec. 8'
8' Gray to tan porous xly dol. w/stk
carb mtl & anhy.
- CORE #136 7,609 - 7,619 Rec. 3'
3' Tan & gray porous dol. w/stk carb.
mtl. & anhy.
- CORE #137 7,619 - 7,629 Rec. 2'
2' Gray gran. dol. porous in stks.
Core burned.
- CORE #138 7,629 - 7,639 Rec. 7'
7' Lt tan porous gran dol.
- CORE #139 7,639 - 7,646 Rec. 2'
Porous tan gran. dol. Core burned.
- CORE #140 7,646 - 7,656 Rec. 2 1/2'
Tan to gray, porous to dense dol. w/stks
of carb. mtl. and wugs anhy.
- CORE #141 7,656 - 7,666 Rec. 1'
Same as above
- CORE #142 7,666 - 7,676 Rec.
Same as above
- CORE #143 7,676 - 7,678 Rec. 1'
1' Porous gray dol.
- Drilled from 7,678 - 7,769
- CORE #144 7,769 - 7,774 Rec. 2 1/2'
2 1/2' Slightly porous tan to gray xyl.
dol. w/tr anhy, sh, gyp.
- CORE #145 7,774 - 7,780 Rec. 5'
Same as above
- CORE #146 7,780 - 7,790 Rec. 2'
Same as above

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CORE #146	7,780 - 7,790	Rec. 2'
	Same as above	
CORE #147	7,790 - 7,795	Rec. 5'
	Same as above	
CORE #148	7,795 - 7,805	Rec. 9'
	1' Dense tan to gray dol	
	2' Dense gray dol. with sh stk & anhy evidence of cross bedding	
	6' Dense to porous in stks gray dol. with stk sh. & anhy.	
CORE #149	7,805 - 7,810	Rec. 0'
	No rec.	
CORE #150	7,810 - 7,812	Rec. 2'
	Dense crossbedded gray f.c. col. w/stks sh.	
CORE #151	7,812 - 7,822	Rec. 5'
	5' Dense lt. gray f. g. dol w/stk sh & anhy.	
CORE #152	7,822 - 7,832	Rec. 2½'
	Slightly porous xly to gran lt. gray dol. w/stks sh & anhy. fossil molds.	
CORE #153	7,832 - 7,836	Rec. 1½'
	Dense gran. gray dol w/stk shale & anhy.	
CORE #154	7,836 - 7,838	Rec. 2'
	Same as above	
CORE #155	7,838 - 7,848	Rec. 4'
	2' Same as above	
	2' Slightly porous tan oolitic dol. ls.	
CORE #156	7,848 - 7,850	Rec. 6" Skip S.C. ✓
	Gray dol. (burned)	
CORE #157	7,850 - 7,854	Rec. 3'
	Porous Gray oolitic dol. ls. w/shstks in bottom.	
CORE #158	7,854 - 7,860	Rec. 3½'
	Slightly porous gray xly to gran. dol. w/ stk sh. and anhy. fossil molds.	

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- CORE #159 7,860 - 7,864 Rec. 6" Skip S. C. ✓
Same as above
- CORE #160 7,864 - 7,869 Rec. 3 1/2'
Dense gray to tan dol. w/ stks sh.
- CORE #161 7,869 - 7,878 Rec. 3'
3' Forous gray oolitic ls
Bottom 2" dk gray porous dol. fossil molds.
- CORE #162 7,879 - 7,890 Rec. 7'
7' Slightly porous gray to dk gray
dol w/stks & bands of gray Bentonite
& vugs anhy.
Salty taste.
- CORE #163 7,889 - 7,899 Rec. 10'
10' Dense granular gray dol. w/vugs
anhy and irregular laminae of gray
to black sh.
- CORE #164 7,899 - 7,909 Rec. 8'
8' Dense gray sly dol with stks & bands
of gray shale and vugs anhy. Also stks &
bands gray Bentonite. The laminae of shale
are very irregular.
- CORE #164 7,909 - 7,919 Rec. 10'
10' Dense gray dol. w/stk & bands of
cal. shl & vugs anhy. (laminated)
- CORE #166 7,919 - 7,920 Rec. 3'
Dense gray dol w/irregular stks gy sh &
vugs anhy.
- CORE #167 7,920 - 7,931 Rec. 2'
2' Porous in stks lt gray dol w/stks
gy sh.
- CORE #168 7,931 - 7,936 Rec. 5'
4' Dense gray dol. w/stk of shale &
gy bentonite
1' green cal. shale
- CORE #169 7,936 - 7,946 Rec. 10'
1' Green cal shale with very thin stks
sd between some bedding plains
9' Dense gray dol with irregular bands &
stks of bk to gray shale & anhy vugs.
Sand grains appear in bottom of sh bands

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- CORE #170 7,946 - 7,956 Rec. 5'
- 5' Lt gray to gray dense sly dol w. stk of blk sh.
- CORE #171 7,956 - 7,961 Rec. 5'
- 1 1/2' Dense, greenish, gray shale w/vugs of anhy.
 - 1' Gray green shale with broken places in shale w/slick sides & pyrite.
 - 1' Dense sly dol. w/shin stks blk sh.
 - 1 1/2' Dense grayish green cal shale w/vugs anhy. Core broken near bottom showing vertical fractures.
- CORE #172 7,961 - 7,966 Rec. 5'
- 2' Light greenish gray sh. w/irregular stk of blk sh.
 - 1' Dense xyl. gray to tan dol.
 - 2' Dark greenish gray cal. shale w/stk blk sh. & pyrite
- CORE #173 7,966 - 7,975 Rec. 10'
- 10' Dense grayish laminated green shale w/stks & bands of blk sh. (one band 2" wide 5' bot. w. lignite with slicken sides.) Also vugs anhy.
- CORE #174 7,976 - 7,986 Rec. 10'
- 10' Dense grayish green laminated cal. shale w/bands of gray dense xyl. dol.
- CORE #175 7,986 - 7,991 Rec. 5'
- 4 1/2' Dk gray to light gray sh. cross-bedded in top, & 2" band of dense gray dol. in mid section.
 - 6" Tight gray med to coarse grained poorly sorted sd. with anhy & yellow stringer of clayey silt. at top.
- CORE #176 7,991 - 7,995 Rec. 3 1/2'
- 1' Tight gray med to coarse grained poorly sorted sd w/ anhy.
 - 6" Green quartzic dol w/ f. g. to c. g. sand grains. gyp. in fractures
 - 2' Tight green quartzitic sandstone.
- CORE #177 7,995 - 7,998 Rec. 3'
- 3' Dense lt. greenish to green light quartzitic ss w/stks of tan to white m. g. sand.

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- CORE #178 7,998 - 8,000 Rec. 2'
 - 2" Gray & green f.g. sd. The green sand is found in fractures in irregular plains.
 - 2'10" Tight Green Quartzitic SS

- CORE #179 8,000 - 8,002 Rec. 2'
 - 1'10" Tight gray to green irregularly laminated Qts. ss.
 - 2" Mottled green to dk. Red, to brown shale w/poorly sorted sand grains.

- CORE #180 8,002 - 8,007 Rec. 4'
 - 4' Tight green m. to f. gr. SS. green shale bands in center 4" of core. Two bands of m. g. loose Br. ss one ft. from bottom. One yellow f.g. tight Qts ss band below Br. bands.

- CORE #181 8,007 - 8,012 Rec. 5'
 - 1' Varicolor (green, Br., blk., red) Sandy shale w/thickened sides.
 - 3' Varicolored (gr. blk., yell) slightly porous m.g. firm sd.
 - 1' Dense mottled (blu, gr.) sdy sh.

- CORE #182 8,012 - 8,017 Rec. 3'
 - 2' Gr. to gy. cal. sdy. sh. w/coarse sd grains.
 - 1' Gr. to lt. gy. f.g. sdy dol. pyrite in sd.

- CORE #183 8,017 - 8,023 Rec. 1 1/2'
 - Gray to green v.p. f.g. sdy dol.

- CORE #184 8,023 - 8,033 Rec. 1'
 - Porous light gray dol. w/ f.g. green sand grains. Gry. in porous places are probably gyp. Core rec. in pieces, core consist mostly pebbles.

- CORE #185 8,033 - 8,038 Rec. 6"
 - Same as above

- CORE #186 8,038 - 8,041 Rec. 1'
 - Same as above

- CORE #187 8,041 - 8,046 Rec. 1'
 - Same as above

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- CORE #188 8,046 - 8,053 Rec. 1'
 Same as above
- CORE #189 8,053 - 8,062 Rec. 2'
 5" Porous M. grained lt. gray sdy dol.
 5" Tight M to f. grain gr. sdy dol.
 6" Tight f. grain lit. gray sdy dol. w/gyrite
 8" Tight f. grain gray sdy dol.
- CORE #190 8,062 - 8,063 Rec. 6"
 Dense gray to lt. gray sly sdy dol.
 Drilled from 8,063 to 8,118
- CORE #191 8,118 - 8,123 Rec. 1 1/2'
 1 1/2' Gray slightly porous sdy dol.
- CORE #192 8,123 - 8,128
 Same as above.
- CORE #193 8,128 - 8,138 Rec. 2'
 1 1/2' Dense dk. gray sly sdy dol.
 6" Soft gray & blk n. g. sd. One small
 spot of clear gyp. xyl.
 Some sand was tan n.g. core was badly burned.
- CORE #194 8,138 - 8,143 Rec. 2'
 2' Dense dk. gray n. g. sd w/scattered
 calcite xyl. Core very broken, splinters
 having slicken sides of blk sh in core.
- CORE #195 8,143 - 8,148 Rec. 2'
 Dense dk gray sdy dol. w/stks gyp. and
 blk sdy sh.
- CORE #196 8,148 - 8,153 Rec. 2'
 Same as above
- CORE #197 8,153 - 8,158 Rec. 3'
 Same as above.
- CORE #198 8,158 - 8,168 Rec. 1'
 1' Slightly porous dk gray xyl. dol.
 w/stks of dk gray shale.
 Some anhy. & gyp. replacements.
- CORE #199 8,168 - 8,173 Rec. 2'
 Same as above

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- CORE #200 8,173 - 8,179 Rec. 2½'
Same as above
- CORE #201 8,179 - 8,185 Rec. 2'
1 ¾' Dense xyl. dk gray dol.
w/pots of br. ss
1/4' Burned sdy gray dol w/tr anhy & gyp.
- CORE #202 8,185 - 8,190 Rec. 2½'
Same as above
- CORE #203 8,190 - 8,195 Rec. 3'
Same as above
- CORE #204 8,195 - 8,205 Rec. 3'
2' Dk gray f. sdy dol w/stks of
dk gray sh.
1' Dk gray sh.
- CORE #205 8,205 - 8,215 Rec. 8'
6' Dense gray sh grading into dense
xyl. gray dol.
2' Dense gray xly dol.
- CORE #206 8,215 - 8,220 Rec. 5'
2' Dense dk gray cal sdy sh.
6" Dense dk gray laminated dol. w/tr. anhy. & gyp in broken places.
2" Dense dk. gray cal sdy sh.
- CORE #207 8,220 - 8,230 Rec. 4'
3' Dense dk. gray laminated cal. (in stks)
sdy shale, laminations cross bedded.
1' Dense gray xly. dol. w/pyrite & spotted gyp.
- CORE #208 8,230 - 8,236 Rec. 6'
4' gray cal. sh. w/dk gray n. g. sd. 1"
thick 1' from top. with angle of dip about 20°
2' Dense sdy & shly gray dol. w/gyp. & anhy.
- CORE #209 8,236 - 8,246 Rec. 8'
2½' Dense gray n. g. sdy dol.
w/anhy & gyp. bedding planes dipping at
about 10° L.
5' Dense dk gy n. g. sdy shly dol. w/pyrite
6" Dense dk. gy pyrite cal. sh.

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CORE #210 8,246 - 8,256 Rec. 10'
 2 1/2' Dense dk. gy m.g. sd, whly dol. w/anhly & pyrite
 2 1/2' Dense dk gy. pyritic col. sh w/scatter m. g. sd grains
 5' Dense dk gy xly. dol w/scattered sd gr. and anhy & gyp.

CORE #211 8,256 - 8,266 Rec. 7'
 7' Dense gray xyl. dol. w/stk & bands of gy sh. Evidence of cross bedding and sharks tooth was found.

CORE #212 8,266 - 8,273 Rec. 7'
 1' Dense gy. laminated dol. w/2" band of gy. f.g. sd in bottom. Sd is dipping about 10°
 6" Dense gy col sh.
 1' Dense dk. gy dol. w/stk anhy.
 5' Dense gy. gr. sh. w/thin stk blk. sd. Sd dipping about 5°
 2" Slightly porous gy. f. g. sd.
 4" Gy. col sh.
 5" Slightly porous gy f. g. sd.
 7" Laminated gy, gr, col sh w/anhy.

CORE #213 8,273 - 8,283 Rec. 8'
 8' Anhydrite w/lt to dk gray sh. Core very nearly all anhy. mottled.

CORE #214 8,283 - 8,293 Rec. 10'
 1 1/2' Dense gray slyn. dol w/spot anhy & gyp
 1 1/2' Dense gray col. sh. w/scattered m. g. sd grains
 1' Dense gray slyn. dol. w/spot anhy & gyp.
 4' Anhydrite w/thin stringers gy. sh.
 2' Dense dk. gy. col sh w/scattered m. g. sand grains.

CORE #215 8,293 - 8,303 Rec. 3'
 2" Anhy w/stk tan dol.
 2' Tan dol. laminated w/ very thin stks of gray to blk f. g. sds.
 10" greenish gray col. sh w/one stk of blk carb mtl., fractured vertically

CORE #216 8,303 - 8,313 Rec. 5'
 3" Dense tan oolitic sd.
 2" Slightly porous dk gry sd
 1' Dense tan Dolitic sd.
 1" Dk gray col sh.
 3 1/2' Very slightly porous in thin stks tan Dolitic sd w/anhy & gyp.

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- CORE #217 8,313 - 8,314 Rec. 1'
 1' Dense tan shly, sdy, dol.
- CORE #218 8,314 - 8,315 Rec. 1'
 Dk. gray to green cal sh. w/ sd grains.
- CORE #219 8,315 - 8,320 Rec. 4 1/2'
 3" Dense f. g. dk, gr. dol. sd.
 1/2" Gy, gr, shale
 1 1/2" Dense gy shly. dol. w/5" anhy band in top.
 15" Dense dk. gy. dol. sd. w/lamination of sh.
 1' Slightly porous f. g. soft gr. sd.
- CORE #220 8,320 - 8,325 Rec. 4'
 1 1/2" Slightly porous f.g. soft gr. sd.
 2" Dense gray to lt. gr pyritic dol. sd.
 1/2" Tight m. g. gy sd.
- CORE #221 8,325 - 8,335 Rec. 10'
 6" Lt. gr. to gy. xlyn. sdy, shly dense dol.
 1/2" Blk. m. g. sd.
 1 1/2" Dense gr. to gr. sdy, shly, dol. w/vugs anhy and br. earthy mt.
 2" Dense gray dol. w/stk sh & anhy.
- CORE #222 8,335 - 8,345 Rec. 2'
 Dense gray sdy dol.
 w/vugs anhy.
- CORE #223 8,345 - 8,355
 3' Dense dk. gray sdy dol. w/anhy & stk dk., gy., sdy sh.
- CORE #224 8,355 - 8,365 Rec. 5'
 3' Tight f. g. gr. dol ss.
 2' Dense gran. gy, gr. dol. w/vugs anhy.
- CORE #225 8,365 - 8,373 Rec. 7'
 6" Tight m. to c. g. white dol ss
 6" Dark gr. silly dol. w/ shale
 4' Lt gy to gr. gran. dol. w/gyp. replacements, 3" stk anhy at bottom.
 1 1/2" Dense granular gy to gr. dol.
- CORE #226 8,373 - 8,383 Rec. 9'
 8" Light gr. dolomitic cal shale
 w/irregular stk of blk sh & pyrite
 1' Blk cal. sh.

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- CORE #227 8,383 - 8,388 Rec. 5'
 - 1 1/2' Dense lt. gray dol.
 - 1' Blk sdy sh.
 - 2 1/2' Gy. white, gr. sd w/stks blk sh. cross bedded

- CORE #228 8,388 - 8,398 Rec. 7'
 - 4' Lt green ss.
 - 6" Blk sdy sh
 - 1' Lt green ss
 - 2' Porous gr. sd.
 - 6" Porous br, & green sd.

- CORE #229 8,398 - 8,408 Rec. 4'
 - 2' Tight f. g. gr. dol. SS w/bands & stks of dk. gr. sh ~~cross~~ bedded at bottom.
 - 2' Dense lt. gr. to gy sdy dol.

- CORE #230 8,408 - 8,418 Rec. 10'
 - 5 1/2' Dense gr. sdy sh. w/bands of gr. granular dol. in center section yellow, & purple stains through section.
 - 1' Purple sdy sh.
 - 1 1/2' gr. sdy. sh.
 - 2' gr. tight c. g. sdy dol.

- CORE #231 8,418 - 8,428 Rec. 8'
 - 4 1/2' Lt gr. dolomitic sd w/vugs pink & white anhy.
 - 1' Lt. gr. cal sh
 - 1' Br. Cal sh w/slicken sides
 - 1' Lt gr. to br. dol. ss.
 - 6" Slightly porous gr. sd.

- CORE #232 8,428 - 8,432 Rec. 1'
 - 1' Dull white dense m. g. to c. g. ss. tr. green ss. & anhy

- CORE #233 8,433 - 8,440 Rec. 6'
 - 6" Lt gray dense f. g. sdy dol.
 - 1 1/2' Dense gray, green yellow sdy. dol. sh.
 - 4' Dense dk. gray cal. sh w/stks carb mtl. Bottom 2' of core broken w/stks of soft silty sd. or bentonite.

- CORE #234 8,440 - 8,450 Rec. 6'
 - 1 1/2' dk gr, dss, brittle, mic. shale w/thin stks v. f. g., soft silty sand
 - 1' gr. & li. green, sdy shale w/s from m. g. sdstone
 - 2' Lt gray & gr. firm, m. g. to f. g. silty sandstone w/s v. sdy, hd, dolomite.
 - 1 1/2' Lt gr. & gr. sdy shale w/s v.f.g. silty sand.

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- CORE #235 8,450 - 8,456 Rec. 1'
 6" Brn & dk grn mottled sdy shale mic.
 6" Gray, f. g. sdstone & sdy shale.
- CORE #236 8,456 - 8,466 Rec. 10'
 3½' Anhydrite w/int. of blk sl. mic. dol shale
 4' Dk gr. dse, mic., lam., sl. sdy shale w/inclu
 of li. gr., hd, m.g. sand pockets.
 2½' Hd, tan, sds, xyl. dolomite - abundant
 anhy. in bot. 6".
- CORE #237 8,466 - 8,476 Rec. 6'
 Gray & brn, gray brittle, x-bedded, lam.
 mic. shale & sl. sdy shale. W/scattered
 anhy, pebbles.
- CORE #238 8,476 - 8,484 Rec. 4'
 2' Hd, gray, dse, xyl. dolomite
 1' gray, brittle x-bedded shale sl. mic.
 11" Li. grn, dse, sl. sdy shale
 1" Gray, hd, dse, a to f.g. sdstone.
- CORE #239 8,484 - 8,494 Rec. 10'
 5' Li. gr. & Li. grn, hd, m. to f.g. sdstone
 Qtzitic stk near bottom. Lam. in middle
 w/sdy sh.
 3' Gray & L. grn, dse, sdy dolomite Lam.
 in stks. w/sdy shale.
 2' Hd, li. gr. to grn. sdstone & sdy shale.
- CORE #240 8,494 - 8,504 Rec. 10'
 Li. gray, dse, compact dolomite w/shale int.
 2' from top & in bot. 2'. Sl. sdy in stks.
- CORE #241 8,504 - 8,514 Rec. 6½'
 2½' Li. grn, dse hd., dolomite
 1' Dk. gr. to black, dse, shale
 3' Gray, dse dolomite becoming highly anhydritic
 in bottom 1'.
- CORE #242 8,514 - 8,524 Rec. 6'
 3' Li. gray, dse, dolomite w/thin stks of
 brn & grn-gr. sl. mic. shale.
 3' Brn-gr. & dk grn, mottled sdy shale & shale
 w/scattered dol. inclusions. Shows x-bedding
 & waxy surfaces.

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- CORE #243 8,524 - 8,529 Rec. 1½'
- 6" Grn-gr. v.c.g. sl. mottled, poorly sorted
sl. shaley argill. sand
- CORE #244 8,529 - 8,539 Rec. 7½'
- 1½' Green & red-brn mottled shale. Anhy
pebbles in top.
- 1' Green, brittle, flakey, bentonitic shale lam.
w/s sdy shale.
- 2' Li gr, dse, sdy dolomite & dol SS w/abundant
anhy. pebbles.
- 1½' Like above w/yellow mottled sd intrusions
- 1' Red-brn, yellow & grn mottled, silty ss & sdy shale
- ½' Green, dense shale.
- CORE #245 8,539 - 8,549 Rec. 6½'
- 2½' Grn, sandy, shale
- 1½' Li. gr. & grn., v.g.g. silty sand & sdstone
- 2½' Grn, hd. sandy shale.
- CORE #246 8,549 - 8,559 Rec. 8'
- 5' Gray to dk gray, f.g. to m.g., silty,
firm per. sand w/abundance of lignitic
material (flakes & thin lamination) & w/s dk
gray shaley sand.
- 3' Grn, dse, hd; dolomitic, sl. sdy shale
- CORE #247 8,559 - 8,569 Rec. 10'
- ½' Grn, dse, hd, dolomitic sl. sdy shale.
- ½' Grn firm sl. shaley m. g. sand.
- 3½' Hd, dse, li. grn, sl. sdy dolomite.
- 2½' Hd, dse, sdy, li. grn, sdy dolomite w/large
anhy pebbles in bottom.
- 2'10" Grn yellow stained m. g., shly firm sd &
sd shale.
- 2" Mottled grn, rd & yellow, sdy, shale. Scattered
large sd grains.
- CORE #248 8,569 - 8,579 Rec. 5'
- ½' Mottled purple & yellow, hd, dse, dolomite?
(large v.c.g. sd.)
- 1½" Hd. mottled purplish-brn & grn, sdy shale.
- 1' Hd, dse, mottled grn, purple & yellow sdy.
dolomite w/scattered pink anhy pebbles.
- 2' Grn, f. g. to m. g. soft silty sand - abundant
large sd grains scattered throughout.
- 2" Hd, dse, li. grn gr. dolomite.

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- CORE #249 8,579 - 8,589 Rec. 9½'
- 1' Li grn, dse, f. g. shly sd.
 - 3' Grn, sl. sdy, hd., dse shale
 - 1½' Gr. brn & purplish, brittle, flakey shale
 - 4' Grn, hd, dse shale, sl. sdy.
- CORE #250 8,589 - 8,599 Rec. 10'
- 1' Grn shly, sdstone
 - 3' Li. grn, hd, tight, v. g. g., sdstone
 - 2' Red-brn & grn mottled f. g. firm sdstone & sdy shale
 - 1' Grn, m. g. firm, por. sand - large pink achy pebble in bottom
 - 1' Grn, sl. sdy, dse shale
 - 1' Li. grn, m.g., v. soft, silty loose, sand.
 - 1' Grn, m. to f. g. firm, sl. shly sdstone.
- CORE #251 8,599 - 8,609' Rec. 10'
- 4' Grn & Li. grn-gr. hd. f. g. sdstone & sdy shale. Sl. mottled w/red-flocks in stks.
 - 4' Red-brn sl. mottled w/grn, hd, sdy shale w/s mottled shly sdstone.
 - 2' Red-brn, m. to f.g. firm porous sand.
- CORE #252 8,609 - 8,619 Rec. 7½'
- 3' Highly mottled red-brn & grn w/some yellow stain (limonite) irregular, sdy shale w/s sandstone. Conglo. appearance
 - 1' Red-brn m. to f. g. firm sd
 - 1' Red-brn, brittle v. flakey, shale sl. sdy.
 - 1½' Red-brn & grn, mottled sdy shale w/s m. g. mottled sdstone
 - 2' Li grn, m. to f. g. soft & firm, sand w/s mottled red-brn & grn sd.
- CORE #253 8,619- 8,629 Rec. 6'
- Li. gray to grn-gr., m. g. soft, porous sand w/thin grn sdy shale stringers.
- CORE #254 8,655 - 8,658 Rec. 3'
- 1' Hd, wh., quartzitic sdstone
 - 2' 11" Dk grn-gr, sl. sdy shale. Large sd grains widely spaced in shale sl. micaceous.
- CORE #255 8,734 - 8,744 Rec. 5'
- 1' Grn, v.c.g., & f.g., poorly sorted, silty, soft sand
 - 1½' Blk, m. g., poorly sorted, silty, soft sand.
 - 1½' Grn-gr., c. g. to m. g., soft, poorly sorted silty sand.
 - ½' Grn, & red-brn v.c.g. soft silty, poorly sorted, conglomeritic sand - apparently contains reworked igneous material. (in small pebbles) Large chips of rhyolite in mass of sd & mud? Pebbles?

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$\frac{1}{2}$ ' mottled, hd, dse, porphy - probably rhyolite
 scattered large feldspar & qtz xyls.

CORE #256 8,744 - 8,750 Rec. 1'
 Rhyolite porphy - w/apparently thin stks of
 varicolored grn, red-brn & yellow stained
 conglomerate igneous mat. & red brn clay?
 "Igneous wash Zone" Large qtz. & feldspar xyls. w/clay or
 ash & mud matrix.?

CORE #257 8,750 - 8,753 Rec. 1'
 Like above

CORE #258 8,753 - 8,756 Rec. $\frac{1}{2}$ '
 Very coarse grained white, soft loose
 sand & brn rhyolite & feldspar chips
 w/s dk purplish-black dse, rhyolite.

"One or two
 pebbles of pink
granite"

NOTE: It is felt that the above cores are in
 a detrital or rhyolite "wash" zone which
 contains large rhyolite boulders.

CORE #259 8,756 - 8,759 Rec. 1'
 Dk. red-brn, congl., volcanic ash & lava?
 abundant quartz xyls in matrix.
 One or two pebbles of rhyolite.

CORE #260 8,759 - 8,762 Rec. 2'
 Rhyolite porphy. Tr. pink granite pebbles

CORE #261 8,762 - 8,765 Rec. 2"
 Rhyolite porphy

CORE #262 8,765 - 8,770' Rec. $1\frac{1}{2}$ '
 $\frac{1}{2}$ ' Rhyolite porphy
 $\frac{1}{2}$ ' Red-brn yellow stained soft ashy material. Lava flow?
 w/pebbles of rhyolite & qtz imbedded conglomeritic.
 $\frac{1}{2}$ ' Like above $\frac{1}{2}$ ' but harder.

CORE #263 8,770 - 8,772 Rec. 1'
 Largely rhyolite porphy w/few pebbles of
 reddish-brn, & yellow mottled porphy w/finely
 soft matrix & abundant rounded quartz xyls.
 (Large sd grains) Some reddish-brn, soft, ashy, con-
 glomeritic material vol. ash.?

CORE #264 8,772 - 8,775 Rec. 1'
 Rhyolite porphy - little reddish-brn, soft
 conglomeritic ashy material.

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- CORE #265 8,775 - 8,778 Rec. 1'
Rhyolite porphyry
 - CORE #266 8,778 - 8,780' Rec. 1'
Like above
 - CORE #267 8,780'
Attempted core for 50 min. - no footage made -
Pulled barrel - cutter head worn smooth. Came
out of hole to put on conventional barrel.
 - CORE #268 8,780 - 8,780'8" Rec. None
Very hard - bit worn smooth.
Conventional bit.
 - CORE #269 8,780'8" - 8,781'4" Rec. None
Very hard - Conventional core bit
worn smooth.
- Ran 8 5/8" Hughes (hd fa. bit) to clean & ream hole to
bottom - Bit completely worn out.
- CORE #270 8,781'4" - 8,781'6" Rec. None
(1 Hr.) Very hard.
 - CORE #271 8,781'6" - 8,782' Rec. 6"
(3 1/2 hr.) Hd, brn-gr., dce matrix w/scattered
xyls. feldspar & qtz. rhyolite porphyry?
 - CORE #272 8,782 - ? possibly 6" No Recovery
Pulled Reed core bit & ran 7" conventional
 - CORE #273 8,782 - 8,783 Rec. 6" Hughes conventional
Rhyolite? Porphyry. barrel
 - CORE #274 8,786 - 8,786'4" No Rec.
 - CORE #275 8,786'4" - 8,787' Rec. 8"
Rhyolite
 - CORE #276 8,789 - 8,790' Rec. 1 1/2'
Rhyolite
 - CORE #277 8,790 - 8,790'4" Rec. 3 1/2"
Rhyolite
 - CORE #278 8,792 - 8,792'8" No Recovery
 - CORE #279 8,792'8" - 8,793'6" Rec. 6"
Rhyolite

Drilled 8,793'6" to 8,795 1/2'

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CORE #280	8,795 $\frac{1}{2}$ ' - 8,796 $\frac{1}{2}$ '	Res. 3"
	Rhyolite	
CORE #281	8,796 $\frac{1}{2}$ ' - 8,797	Res. 0"
CORE #282	8,797 - 8,797 $\frac{3}{4}$	Res. 0"
CORE #283	8,797 $\frac{3}{4}$ - 8,798	Res. 3"
	Rhyolite.	

Ran Schlumberger @ Dr. T. D. 8,798 Schlumberger T. D. 8,798

Ran dip meter at

1. 6,350 to 6,385
2. 6,445 to 6,480
3. 6,585 to 6,630
4. 7,385 to 7,445
5. 7,470 to 7,505
6. 7,985 to 8,020
7. 8,210 to 8,240
8. 8,605 to 8,635
9. 8,740 to 8,780

DRILLERS LOG
 HUMBLE OIL AND REFINING COMPANY
 W. P. H ayman No. 1 - Osceola County, Fla.

P#31 W-1411

From	To	Formation	From	To	Formation
0	261	Sand & shells	6247	6297	Lime
261	400	Lime & shells	6297	6326	Lime & shale
400	870	Lime	6326	6373	Shale
870	888	Dolomite & lime	6373	6393	Lime
888	1137	Dolomite & lime	6393	6494	Dolomitic lime
1137	1331	Broken lime	6494	6533	Anhydrite & dolomite
1331	2015	Dolomite & lime	6533	6537	Dolomitic lime
2015	2065	Flint & dolomite	6537	6573	Lime & anhydrite
2065	2081	Lime	6573	6596	Dolomitic lime
2081	2197	Lime & dolomite	6596	6604	Dolomite & anhydrite
2197	2208	Chalky lime	6604	6623	Lime & dolomite
2208	2258	Dolomite & lime	6623	6682	Dolomite & anhydrite
2258	2260	Dolomite & chert	6682	6774	Lime & anhydrite
2260	2310	Dolomite & lime	6774	6810	Gypsum w/streaks of anhy.
2315	2418	Dolomite	6810	6877	Lime & anhydrite
2418	2445	Dolomite & anhydrite	6877	6915	Dolomite w/shale & anhy.
2445	2471	Dolomite	6915	6977	Anhydrite & dolomite
2471	2488	Dolomite & anhydrite	6977	7021	Anhy. w/dolomite & lime
2488	2513	Dolomite & chert	7021	7066	Anhydrite w/streaks of dolo.
2513	2515	Chert	7066	7179	Anhydrite & dolomite
2515	2539	Dolomite & chert	7179	7201	Dolomite
2539	2688	Dolomite & lime	7201	7212	Dolomite & anhydrite
2688	2714	Dolomite & anhydrite	7212	7219	Dolomite
2714	2716	Anhydrite	7219	7250	Dolomite & streaks of anhy.
2716	2752	Anhydrite & chalky lime	7250	7272	Dolomite
2752	2811	Dolomite & lime	7272	7299	Dolomite & lime
2811	2828	Lime	7299	7330	Dolomite
2828	2933	Lime & anhydrite	7330	7346	Dolomite & lime
2933	2994	Dolomite & lime	7346	7356	Dolomitic lime
2994	3146	Broken lime	7356	7356	Lime & shale
3146	3161	Anhydrite	7356	7429	Dolomite & lime
3161	3198	Anhydrite & dolomite	7429	7435	Anhydrite
3198	3200	Dolomite	7435	7448	Anhydrite & lime
3200	3255	Lime & dolomite	7448	7464	Lime & anhy. w/shale
3255	3305	Lime & dolomite w/anhydrite	7464	7476	Dolomite & shale
3305	3309	Lime & dolomite	7476	7495	Dolomite & anhy.
3309	3323	Lime & anhydrite	7495	7502	Dolomite
3323	3350	Lime & anhydrite	7502	7511	Dolomite & shale
3350	3412	Dolomite & anhydrite	7511	7526	Lime & anhy.
3412	3477	Lime & anhydrite	7526	7538	Dolomite & shale
3477	3527	Anhydrite	7538	7547	Dolomite
3527	3559	Anhydrite & dolomite	7547	7569	Dolomitic lime
3559	3582	Chalk & anhydrite	7569	7590	Dolomite & anhy.
3582	3587	Anhydrite	7590	7593	Dolomite & shale
3587	3599	Anhydrite	7593	7604	Dolomite
3599	3637	Anhydrite & lime	7604	7633	Dolomite & shale
3637	3642	Anhydrite with chalk	7633	7679	Dolomite
3642	3652	Anhydrite	7679	7698	Dolomite & shale
3652	3722	Anhydrite & lime	7698	7770	Dolomite
3722	3751	Chalky lime & anhydrite	7770	7796	Dolomite & shale
3751	3802	Anhydrite & lime	7796	7810	Dolomite, shale & anhy.
3802	3877	Chalky lime & anhydrite	7810	7825	Dolomite & lime
3877	3888	Anhydrite	7825	7836	Dolomite
3888	3898	Anhydrite & chalk	7836	7848	Dolomite & shale
3898	3932	Chalk	7848	7878	Dolomite
3932	4020	Dolomitic lime	7878	7914	Dolomite & shale
4020	4122	Chalky lime	7914	7924	Shale & anhy.
4122	4679	Chalky lime & anhy.	7924	7986	Dolomite & shale
4679	5398	Chalky lime & dolo.	7986	7995	Shale & sand
5398	5480	" " "	7995	8007	Sand
5480	5589	Chalky lime	8007	8017	Sand & shale
5589	5779	Lime & dolomite	8017	8146	Sand & dolomite
5779	5869	Lime	8146	8162	Sandy dolomite & anhy.
5869	5945	Lime & shale	8162	8201	Sandy dolomite
5945	6080	Lime & shale	8201	8268	Shale & dolomite
6080	6085	Lime	8268	8274	Shale
6085	6097	Lime	8274	8288	Anhy. & shale
6097	6158	Chalky lime w/shale	8288	8303	Anhy. w/shale & dolomite
6158	6241	Lime & shale	8303	8315	Sand & shale
6241	6247	Lime & shale w/anhy.	8315	8325	Shale & sandy dolomite


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<u>From</u>	<u>To</u>	<u>Formation</u>
8325	8343	Sandy dolomite, shale & anhy.
8343	8359	Dolomite, shale & anhy.
8359	8373	" " "
8373	8386	Dolomite & shale
8386	8402	Dolomite & shale
8402	8423	Sandy shale & dolomite
8423	8433	Shale, anhydrite & sand
8433	8463	Shale & sandy dolomite
8463	8478	Dolomite, anhy. & sandy shale
8478	8484	Anhy. & sandy shale
8484	8510	Shaley dolomite
8510	8529	Sandy shale
8529	8544	Shale, dolomite & anhy.
8544	8561	Shale & dolomite
8561	8579	Dolomite & sandy shale
8579	8590	Shale
8590	8655	Sand & shale
8655	8713	Shale
8713	8744	Shale w/sand
8744	8765	Sand
8765	8781	Hard rock

8781 TD


 Frank Lee - District Chief Clerk

Sworn to and subscribed before me this 4 day of January, A.D. 1947


 Notary Public, State of Florida at Large.
 My commission expires October 13, 1947.
 Bonded by Moss, Bonding & Ins. Co.

ms

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