DAYS DRILLING

## Permit #1050 W-15,051 NRM 35-4 Alico

1614' FEL, 1019' FSL, sec 35 T45S R31E Hendry County, LaBelle 4 SW Quad GL: 30' DF: 49' TD: 12,315'

Spud: 07/31/81 P&A: 09/15/81

Washed and unwashed cutting samples are available from the Florida Geological Survey cuttings library in Tallahassee. Brief lith log of washed & unwashed cuttings by R.S. Caughey in August/September 1998. No description is given for the unwashed cuttings if essentially the same as the washed.

| Depth in feet<br>below DF | DESCRIPTION  |
|---------------------------|--|
| GL-30                     | Largely fossil mollusk shell fragments, common encrusting bryozoa & minor Qz sand(f-m, subang-subrnd); minor phos grs(brn & bl); trace-minor brn Dol.          |
|                           | Unwashed: As above, with 90% LCM(Lost Circulation Material).   |
| 30-60                     | As above, common barnacles as well as mollusks, few bryozoa; 2% Dol as above.  |
|                           | Unwashed: As above, with 5% Qz sand(vf-f).   |
| 60–90                     | Ss, It gray, phos, fos, calc, gastropods, mollusks, echinoid spines; 10-20% loose Qz sand, f, m, c & rare pebbles; phos @ 1% as minute specks.                 |
|                           | Unwashed: As above, with 5-10% additional vfg, loose Qz sand.  |
| 90–120                    | Ss, olive gray, calc, vf-f, fos, & sltly phos, mollusks; minor loose Qz sand.  |
|                           | Unwashed: As above, with 30% loose olive silt/clay(?) & minor clayey siltstone.  |
| 120-150                   | Ss, as above, with $5-10\%$ loose Qz sand(f-m-c).  |
|                           | Unwashed: As above, with 30-40% loose silt/clay(?).  |
| 150-180                   | Largely loose Qz sand, m, c, subang-subrnd, clear & sltly frosted, 1-3% phos grs & rare grns; 10% Ss as above, some silty fg Ss & some med grd, olive gray Ss. |
|                           | Unwashed: Nearly all loose Qz sand & 5-10% loose silt.   |
| 180-210                   | As above, now with 20-30% olive gray, med grd, fos Ss, common mollusks.  |
|                           | Unwashed: Largely loose Qz sand, minor loose silt.   |
| 210-270                   | No samples available.  |

| Depth in feet<br>below DF | DESCRIPTION   |
|---------------------------|---|
| 270-300                   | Dolosilt, grayish green, clayey(?) & minor clayey siltstone, gray green, both are phosphatic.   |
|                           | Unwashed: As above, with $25\%$ loose vf Qz sand and $10-15\%$ phos grs & grns.   |
| 300-330                   | Unwashed sample only: Dolosilt, grayish green, phos, vfg sandy.   |
| 330–360                   | 45% Ls, wh, v fos, sdy, phos with some cheilostome bryozoa; 45% mix of claystone, olive green, thinly laminated and dolosilt and siltstone, olive green, clayey; 10% phos grs, grns, fos frags & rare pebble. |
|                           | Unwashed: Largely clayey siltstone; 25-30% Ls & 25% loose silt/clay.  |
| 360-390                   | Ls, wh, v lt gray, minor yel gray, sdy, v fos, phos, some sltly silty, abundant mollusks, com-numerous cheilostome bryozoa & other bryozoa; overall phos at 1-2% as minute bl specks.                         |
| ,                         | Unwashed: As above, with minor loose yel gray silt.   |
| 390-420                   | Ls as above, with com-numerous encrusting bryozoa, as well as abundant mollusks & common cheilostome bryozoa, a few barnacles.  |
| 420-450                   | Ls/fos as above, now a few echinoid spines $\&$ overall sltly more silty.   |
|                           | Unwashed: As above, with 20-30% loose silt.   |
| 450-480                   | Ls/fos as above, both washed & unwashed.  |
| 480-510                   | 65% Ls/fos as above; 35% claystone, pale olive, calc, some thinly laminated; 2-4% phos grs, grns & minor phos crust.  |
|                           | Unwashed: 60% claystone, 40% Ls as above, minor phos.   |
| 510-540                   | No sample available.  |
| 540-570                   | Ls/fos as above; 2-5% phos crust; 2-4% phos grs/grns; 2-5% Dol, 1t olive gray, fg xln, sucrosic, common small vugs; minor loose silt.   |
|                           | Unwashed: 30-35% loose pale olive silt/clay; 25-35% claystone, calc, silty; remainder is Ls as above with minor phos crust.   |
|                           |   |

| Depth in feet<br>below DF | DESCRIPTION  |
|---------------------------|--|
| 570-600                   | 60% Ls/fos as above; 30-35% Dol as above & a little yel gray, fg xln, sucrosic; 4-8% phos grs/grns & phos crust; minor claystone.  |
|                           | Unwashed: 40-50% pale olive, loose silt/clay; 10-20% pale olive claystone, silty; minor Dol; remainder Ls/fos as above.  |
| 600–630                   | Ls/fos as above with 15-20% Dol as above(& some wh, vfg xln Dol), phos material & phos crust; Ls is often wkly dolomitized; numerous cheilostome bryozoa.  |
| 630–660                   | Ls/fos as above, commonly wkly dolomitized; 10-15% Dol as above; 10-15% phos grs, grns & crust.  |
|                           | Unwashed: 60% loose silt/clay; 20% silty claystone; rest Ls/Dol/phos as above.   |
| 660–690                   | Ls, wh, yel gray, phos, silty, sltly sdy, numerous cheilostome bryozoa & encrusting bryozoa, echinoid spines; 10-15% Dol as above; 10-15% phos grs, grns & crust; 10% claystone, pale olive, thinly laminated. |
|                           | Unwashed: As above, with 60% loose silt & clay.  |
| 690-720                   | As above, washed & unwashed; phos grs, grns, crust now @ 5-10%.  |
| 720–750                   | Ls/fos as above; $10-12\%$ phos grs, grns,crust; $20-25\%$ Dol as above; minor claystone.  |
|                           | Unwashed: As above, with 30% loose silt/clay.  |
| 750-780                   | Ls, wh, yel wh, v lt gray, phosphatic, fos, sltly sdy to sdy, some Ls is vfg, chalky, mollusks, some gastropods, minor cheilostome bryozoa; minor Dol as above.  |
| 780-810                   | 40% Dol as above, more grayish orange & overall more phos; 55% Ss, pale olive gray, vfg-fg, sltly phos to phos, dolomitic; 5% Ls as above.   |
| 810-840                   | As above, more dolomitic Ss; no Ls.  |
| 870-900                   | 90% Ss, 1t to med gray, some yel gray, phos, dolomitic to v dolomitic; $10%$ Dol as above.   |
| 900-930                   | Ss as above; minor Dol as above. Unwashed: As above, with 10% yel gray silt & minor clay.  |
|                           |  |

| Depth in feet<br>below DF | DESCRIPTION   |
|---------------------------|---|
| 930–960                   | 80% Ss as above; 15% Dol, sdy, phos, vfg-fg xln, a little microxln, most is grayish brn to mod brn, some med to dk gray; 5-10% Ls, wh, sdy, phos, fos, some crab claws, mollusks.   |
|                           | Unwashed: As above, with $5-10\%$ olive gray clays, some silt.  |
| 960-990                   | 55% Ls, wh, lt gray, yel gray, v fos, numerous mollusks, some fos shells are rexal, phos, sdy to sltly sdy; 45% Dol, lt olive gray, phos to v phos, fg to vfg, sdy; minor Dol, fg xln, sucrosic, lt olive gray, sdy, phos, a little phos crust. |
|                           | Unwashed: As above, with less than 5% clay/silt.  |
| 990-1020                  | Ls, v pale orange, v fos, little to no sand, rare to no phos, modly to stgly rexal, peloids, some forams; 5% Ls as above; 10-15% sdy, phos Dol.   |
|                           | Unwashed: As above, with minor silt.  |
| 1020-1050                 | Ls, vpo, stgly rexal, little to no sand, no phos, peloids; 15-25% mix of Ss/Dol/Ls as at 930-960' (probably cavings?).  |
|                           | Unwashed: As above, with 5-10% silt/clay(?).  |
| 1050-1080                 | 90-95% Ls, vpo, v stgly rexal, granular, abundant peloids, v abundant Lepidocyclina(small, medium, large, vpo, flat & sltly saddle shape); 5-10% Ls, wh, vfg, chalky, common red algae fragments.   |
|                           | Unwashed: As above, no silt/clay.   |
| 1080-1120                 | 75-80% Ls, vpo, v stgly rexal, abundant Lepidocyclina (as above); 20-25% Ls, vfg, wh to vpo, numerous red algae frags.  |
| 1120-1150                 | 90-95% Ls, vpo with Lepidocyclina, as above; 5-10% Ls, vfg, wh, with common red algae frags.  |
| 1150-1180                 | Largely Ls, vpo with Lepidocyclina; less than 5% Ls, wh, vfg, with red algae fragments.   |
| 1180-1210                 | Ls, vpo, microgranular, v fos, modly to stgly rexal, com-numerous Lepidocyclina & Operculinoides. [5-10% cavings(?) of misc Ls, some with minor phos grs]   |
| 1210-1230                 | Ls/fos as above, possibly a few Camerina.   |

| Depth in feet<br>below DF | DESCRIPTION  |
|---------------------------|--|
| 1230-1260                 | As above, with some Camerina & a few echinoid spines.  |
| 1260-1290                 | As above, with common Camerina, some echinoid spines & numerous Operculinoides & Lepidocyclina.  |
| 1290-1320                 | Ls/fos as above, com-num Operculinoides & Lepidocyclina, some Camerina; 1-2% brn chert; some v pale orange, vfg, chalky Ls with Lepidocyclina & Operculinoides.  |
| 1320-1350                 | 80% Ls, vpo, microgranular to fg chalky, with Lepidocyclina & Operculinoides, a little is v wkly dolomitized; trminor grayish orange, fg xln Dol; 1% brn chert; minor coarsely xln calcite(appears to be veinlet fillings); 20% Ls, vpo, granular, some peloidal, v fos, v stgly rexal(some by coarsely xln calcite), some echinoid spines & parts(?), a few small gastropods; no cones. |
| 1350-1380                 | Ls, vpo, fg chalky, fos, some to common Lepidocyclina & Operculinoides; 2-4% brn chert; 10-15% fg to granular, vpo, fos Ls with some echinoid spines & parts.  |
| 1380-1410                 | As above, with 1-2% chert; coarsely xln calcite replacing fos, esp echinoid spines & parts, is common; a little Ls is wkly dolomitized; no cones observed.   |
| 1410-1440                 | Ls, vpo, granular, stgly rexal, com-numerous fos, most replaced by coarsely xln calcite, com-num echinoid spines & parts; a little Ls is wkly to modly replaced by fg, euhedral, yel gray Dol; some Ls, vpo, fg, chalky, with Lepidocyclina & Operculinoides.  |
| 1440-1470                 | Ls, vpo & grayish orange, granular, peloidal, abundantly fos, porous, v stgly rexal, common coarsely xln calcite replaces fos, common Dictyoconus cookei and echinoid spines & parts.  |
| 1470-1500                 | Ls/fos as above; 1-2% Dol, yel gray to grayish orange, fine to med size euhedral xls replaces the Ls, some Ls with mottled brn to dk brn, carbonaceous matter; numerous D. cookei.   |
| 1500-1530                 | Ls, vpo, granular, stgly rexal, coarse calcite variety and Ls, fg, chalky, some with carbonaceous matter.  |
| 1530-1560                 | Ls mix as above.   |
| 1560-1710                 | No samples available.  |
| 1                         | [Samples between 1710-2030' are fine to v fine]  |

| Depth in feet<br>below DF | DESCRIPTION  |
|---------------------------|--|
| 1710-1740                 | Ls, v pale orange to grayish orange, granular, v fos, stgly rexal, some mottled by dk brn-brn carbonaceous matter; trace dk brn, fine euhedral Dol; commonly coarsely xln calcite, some as fos replacements; minor cement. |
| 1740-1850                 | No samples available.  |
| 1850-1880                 | Ls, vpo, wh, grayish orange, vfg, granular, microgranular, v fos, stgly to modly rexal, some is carbonaceous, some cone fragments; 5-10% Dol, brn, dk brn, fine to med, euhedral aggregates.                               |
| 1880-1910                 | Ls, as above; 10-20% Dol as above; about half the Ls is yel gray to grayish orange, sltly more carbonaceous matter(commonly as v thin laminations).  |
| 1910-1970                 | No samples available.  |
| 1970–2000                 | Ls, vpo, fg to granular, fos-v fos, forams, peloids, a few Dictyoconus cookei, possibly D. americanus; 10-15% Dol, mod brn, 1t brn, dk brn, nearly bl, fine euhedral, some anhedral.                                       |
| 2000-2030                 | Ls/fos/Dol as above, overall more stgly rexal, some now a grayish orange color.  |
| 2030-2060                 | Ls/fos/Dol as above.   |
| 2060-2080                 | No sample available.   |
| 2080-2110                 | Ls, vpo, granular & fg, v fos, modly to stgly rexal, some to common D. cookei, possibly a few D. americanus; 5-10% Dol, dk brn, mod brn, anhedral and euhedral massive and yel gray, euhedral aggregates.                  |
| 2110-2140                 | No sample available.   |
| 2140-2170                 | Ls/fos as above; 5% Dol, dk brn, mod brn, yel gray, some clear, euhedral aggregates; rare D. americanus.   |
| 2170-2320                 | No samples available.  |
| 2320-2350                 | Largely contamination: wh & v lt gray, sdy, phos, fos Ls; minor yel gray, fg xln Dol.  |
| 2350-2380                 | 10-20% Dol, grayish orange, yel gray, mod brn, dk brn, euhedral aggregates; 50% granular & fg, fos, vpo Ls; remainder is wh, sdy, phos, fos Ls(cavings).   |
|                           | Unwashed: As above, with 50-65% vpo, calc silt & dust.   |

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| Depth in feet<br>below DF | DESCRIPTION  |
|---------------------------|--|
| 2380-2450                 | No samples available.  |
| 2450-2480                 | Dol, mod brn, lt brn, dk brn, minor yel gray, most as fg xln & anhedral massive, common fine euhedral aggregates, a little lt gray, microxln Dol; minor Ls, v pale orange, granular, fos.        |
| 2480-2510                 | Dol as above; sltly more Ls than above.  |
| 2510-2540                 | No sample available.   |
| 2540-2570                 | 55% Dol as above; 45% Ls as above.   |
| 2570-2620                 | No sample available.   |
| 2620–2650                 | Ls, wh, vpo, grayish orange, granular, v fos, modly-stgly rexal, some cones; trace Dol.  |
| 2650-2680                 | 35% Ls, vpo to grayish orange, stgly rexal, granular, some fg, minor carbonaceous matter; 65% Dol, 1t brn, grayish orange, yel gray, dk brn, fine anhedral massive & common euhedral aggregates. |
|                           | Unwashed: As above, with much more yel gray Dol as euhedral aggregates.  |
| 2680-2710                 | Dol, mod brn, 1t brn, about 65% as fine-v fine xln, and 35% as fine euhedral aggregates, some is vuggy; minor to 5% Ls/fos as above.   |
|                           | Unwashed: As above, with sltly more Ls and $\pm 10\%$ loose yel gray to clear Dol rhombs.  |
| 2710-3870                 | No samples available. Driller reported lost returns at 2560'DF, then intermittent returns thru to 2710'DF, then no returns.  |

| Permit No. | 1050                         | API 09-051-20102        | County       | Hendry                                |         | F1o              | rida     |
|------------|------------------------------|-------------------------|--------------|---------------------------------------|---------|------------------|----------|
| Company    | NRM                          |                         | Fee          | 35-4 Alico                            |         |                  |          |
| Location:  | SHL 1613.                    | 6' FEL; 1018.5' FSL     | Sec.         | 35 д                                  | 458     | R                | 31E      |
|            | BHL                          |                         | Sec.         | Т                                     |         | R                | ·        |
| Elevation: | G.L. 30.                     | 0' D.F. 47.5'           | K.B. 49.0    | )' Pepth                              | Measur  | ed From_         | KB       |
| Spud 7/31  | /81 Con                      | pleted 9/16/81 Sta      | atus P & A   | · · · · · · · · · · · · · · · · · · · |         |                  |          |
| Logs DIL   | 3883-12,306                  | , BHC Sonic 9000-12,3   | 312', ConDip | meter 5000-                           | 12,312  | . Sarab <i>a</i> | ınd 9000 |
| 12,2       | 65', Coriba                  | ind 9000-12,265', CNFD  | 9000-12,312  | 2 ' •                                 |         | ···              |          |
| Casing Rec | ord <u>20" cs</u><br>w/450 s | g @ 203' w/650 sx; 13-3 | 3/8" csg @ 1 | 555 <b>'</b> w/900                    | sx: 9-5 | /8"_csg          | @ 3882'  |
| This Log P | <del></del>                  | C. Gordon & R.S. Caugh  | ney          |                                       | Date    | 10/28/8          | 1 & 3/9  |
| Remarks Dr | iller repo                   | ted lost full returns   | @ 2560'; ir  | ntermittent                           | returns | thru 27          | 10"      |
| an an      | d then no i                  | eturns.                 |              |                                       |         |                  |          |

|          |           |              |             |      |               |          |          |  |               |                |          |       |              |                |              | -            |                  |               | : I      |      |    | i . |          |  |
|----------|-----------|--------------|-------------|------|---------------|----------|----------|--|---------------|----------------|----------|-------|--------------|----------------|--------------|--------------|------------------|---------------|----------|------|----|-----|----------|--|
|          |           |              |             | Γ    |               | i11<br>5 | lir      | ıg   | F             | t a            | te       | 1     |              | n/1            | t.           |              | 7                | <b>L</b> 5    | - t      | Lith | ١. | D   | epth     | Description/Remarks  |
|          |           | Ţ            |             |      |               | Ĭ        |          |  |               |                |          |       | ]            |                |              |              |                  | 1.5           | 7        |      | -  | ╁   |          |  |
|          |           | $\downarrow$ | _           |      |               |          | _        |  |               |                |          | _     |              |                |              |              |                  | -             |          |      |    |     |          | Sand. Fossil fragments & very fos, wh-tan Ls.  |
|          |           | - -          |             | _    |               | <u> </u> |          |  |               | <u> -</u>      | +        |       |              |                |              |              |                  | -             | -        |      | -  |     |          | Wh, fg Ss, 1% bl phos grs.   |
|          | _         | +            |             |      |               | 1        | +        |  |               |                | _        |       | _            |                | <u> </u>     |              |                  |               |          |      |    | 1   |          |  |
| _        |           | $^{\dagger}$ |             |      |               | t        | 1        |  |               |                | - -      |       |              | _              |              | _            |                  | -             |          |      |    | 1   | 100'-    | Green, clayey, fg Ss.  |
|          | -         |              |             |      |               | 1        |          |  |               | 1              |          |       |              |                |              |              |                  | -             | -#1      |      |    |     | 100 7    | Green, clayey, fg Ss; more clay & some rnd by phos grs/grns.                             |
|          | _         | +            |             |      |               | -        | $\dashv$ |  |               | 1              | +        |       |              |                |              |              |                  | 1.            | 1        |      |    |     |          | phos graygris.   |
|          |           | 1            |             |      |               | 1        | 7        |  |               | <del>  -</del> | 1        |       |              |                |              | 1            |                  | 1             | _        |      |    |     |          | Greenish gray, crse, calc Ss; 1% phos grns.  |
|          |           | +            |             |      |               | -        | 7        |  | <u> </u>      | -              | 7        |       |              |                |              |              |                  | -             | +        |      |    |     | -        |  |
|          |           |              |             |      |               | +        | =        |  |               | -              | 7        |       |              |                |              | 1-           | -                | -             |          |      |    | L   | 200' -   | As above; rnd Qz grns, pebble size & phos g  |
|          | L         | +            |             |      |               |          | $\dashv$ |  | -             | -              | -        |       |              |                |              | $\vdash$     |                  | F             |          |      |    |     |          |  |
|          | F         | -            |             |      |               | -        |          |  |               | F              | - -      |       |              |                |              | μ.           | -                |               | -        |      |    |     |          |  |
|          | F         | 7            |             |      | <u>i</u>      | Ŧ        |          |  |               |                |          |       |              |                |              |              |                  | F             | +        |      | •  | ł   |          |  |
|          |           | 1            |             |      |               |          |          |  | -             |                |          |       |              |                |              |              |                  |               | -        |      |    | 1   |          | Green, clayey, sandy Sltst; common rnd bl p<br>grs & grns; Qz grs & grns.                |
|          |           | -            |             |      | <u> </u>      |          | _        |  | +             |                | -        |       |              |                |              | -            | <del> </del>     |               |          |      |    | -   | 300' -   | ·  |
| _        |           | 1            |             |      | <u> </u>      |          |          |  |               |                |          |       |              |                | ·<br>        | _            |                  | 1             | _        |      |    | ļ   | :        | White, fos Ls.   |
|          |           | _            |             |      | <del>-</del>  | _        | _¦       |  | <u> </u>      | $\pm$          | -        |       |              | _              | <del></del>  | -            | <del> </del>     | -             |          |      |    | 1   |          | White, calc Ss, w/bl phos specks.  |
|          | 5         | 1            |             |      | <del> </del>  | #        |          | <i>-</i>                                     | <u> </u>      | 1              |          |       |              |                | <u>i</u>     | È            | $\downarrow$     | -             | _        |      |    | l   |          |  |
|          | #         | +            |             | _    | <del> -</del> | -        |          |  | +-            | +              |          | _     |              |                | 1            | +            |                  | - -           |          | •    |    |     |          |  |
| <u> </u> | #         | 7            |             |      | İ             | #        |          |  | -             | +              | 7        |       |              | 1              | <del>-</del> | -            |                  | +             | +        | 1    |    | 十   | 400'     | Wh, fos Ls.  |
|          | #         | 7            |             |      | ‡-            | -        |          |  | +-            | -              | _        |       |              | -              | -            | -            | +                | +             | $\dashv$ |      |    | ļ   |          |  |
|          | +         | 4            |             | ···· | -             |          |          |  |               |                |          |       |              |                |              |              |                  |               | 4        |      |    |     |          | Wh, fos Ls; some wh, calc, fg Ss w/1-2% bl grs.  |
|          | +         | ·            |             |      |               |          |          |  |               | $\pm$          |          |       |              | <u> </u>       |              |              |                  | _             |          | }    |    |     |          |  |
|          | J         | +            |             | _    |               | 1        |          |  | +             | 1              |          |       | -            | ļ              | 1            | <del> </del> | 1                |               | _        | 1    |    |     | - 500' - | Green claystone.   |
|          | L         | -            |             |      |               |          |          |  |               | $\pm$          |          |       | <u> </u>     | -              | <del></del>  |              | 1                | $\pm$         | $\dashv$ | 1    |    | ۱   | 500      | White to light tan Ls.   |
| <u> </u> | <u> </u>  |              |             |      | +-            | ╡        |          |  | -             |                | _        |       |              | -              | <del> </del> |              | +                |               | _        | 1    |    | ١   |          | White, calc, silty, sandy clays; some lt gr  |
| ㄷ        | $\exists$ |              |             | Ė    | 1             | #        |          |  | +             | 1              | _        |       |              | <u> </u>       | -            | $\pm$        |                  | - -           | 士        | 1    |    |     |          | Dolosilt & white Ls; 2-5% phos grs/grns; so fg xln, lt gray to mod yel brn Dol.          |
|          | 1         |              |             |      | ‡             | 1        |          |  | -             | 1              |          |       | _            | <del>-</del> - | <u>;</u>     | -            |                  | +             | #        | 1    |    | 1   |          |  |
| F        | +         | ſ            |             |      | 1             | _        |          | _  | -             | +              | $\dashv$ |       |              | +              | !            | -            | +                | 1             | _        | 1    |    |     | 600'     | -  |
| F        | +         | #            |             | -    | <del>-</del>  | _        |          |  | -             | +              | 7        |       |              | <del></del>    | <del>-</del> | -            | +                | _ -           |          | 1    |    | ١   |          |  |
| -        | +         | 4            |             |      | +             | 7        |          |  | +             |                |          |       |              | <del></del>    | <u> </u>     | -            | 1                | -             | _‡       | -[   |    |     | •        |  |
| F        |           |              |             |      | +             |          |          | <u> </u>                                     | +             | Ŧ              | _        |       | -            | 1              | ÷            | #            |                  | #             |          | -1   |    |     |          |  |
|          | Ĭ         |              |             | †    |               |          |          | +  |               | .              |          |       | -            | -              |              | -            |                  | -             |          | -    |    | -   | -        | White, v fos, sandy, v phos Es; 20% Dol as   |
| E        | 1         |              |             | -    |               | -        |          | -  | 1.            |                |          |       | -            | <u> </u>       | -            |              |                  |               | 1        | -    |    | -   | - 700°   | above & 3-6% bl phos grs/grns.   |
|          |           | F            | =           | _    |               |          |          |  |               |                |          |       | -            | _              | _            |              | -                |               | !        | ]    |    | l   |          |  |
| 上        | #         |              | =           | 1    | 1             | _        |          | <u>.                                    </u> |               |                |          | :<br> |              |                |              |              | <u>.i.</u>       |               | _        |      |    |     |          |  |
|          | -         | _            |             |      |               |          |          |  |               |                |          |       | <del> </del> |                | ·            |              |                  |               |          | 1    |    |     |          |  |
|          | Ţ         |              |             | :    |               | •        |          |  |               | <u> </u>       |          |       |              |                |              | +            | — <del> </del> - |               |          |      |    |     |          | 40% white, phos, fos Ls as above; 60% pale   |
| F        | 4         |              |             |      | -             | 4        |          | ;  |               | 1              |          |       | -            |                | -            | -            |                  | 1             |          | 7    |    |     | _ 800'   | orange, vfg xln, phos Dol.   |
|          |           |              |             |      | -             | 7        | _        |  | <del></del> - |                |          |       | -            |                |              |              | _ <u>-</u> -     | - -           |          | -    |    |     |          | Lt gray to lt olive gray, silty, fg Dol w/   |
|          | i         | _            |             |      |               |          |          |  |               |                |          |       |              |                |              | -            |                  |               |          | -    |    |     |          | bl phos grs; 30% pale yel orange, vfg xln,   |
| _        | E         |              | j           |      |               |          |          |  |               | =              |          |       | -            |                |              |              |                  | $\exists$     |          | 1    |    |     |          | Dol.   |
|          | 1         | Ι            | _           |      | _[_           | _]       |          |  |               |                | _        |       | -            |                |              | -            |                  | $\frac{1}{2}$ |          | -    |    |     | - 900'   | Lt olive gray, silty, fg Dol w/1-3% phos g<br>some wh phos Ls and pale yel orange, vfg x |
|          | +         | -            |             |      | $\vdash$      |          |          |  |               |                |          |       | +            |                |              |              |                  | $\pm$         |          | -    |    | į   | - 900    | Dol.   |
| -        | +         | £            |             | _    |               |          |          | _  |               | _ 1            |          |       | $\downarrow$ |                |              | _            |                  | _             |          | 1    |    |     |          |  |
| -        | +         |              |             | †    | #             |          |          | -  | _             | _ :            |          |       | -            |                | -i           | _            |                  |               |          |      |    |     |          |  |
| F        | +         |              |             |      | -             |          |          |  | <u></u>       |                |          |       |              |                | _ <u>_</u>   |              |                  | $\exists$     |          |      |    |     |          | Mixture of white, phos Ls & 1t olive gray,   |
| 1        | <u>.</u>  |              | <del></del> |      |               |          |          |  |               |                |          |       | 1-           |                | :            | <del>-</del> |                  |               |          |      |    |     | 1000     | Dol & some micritic-vfg, olive gray-olive   Dol.   |

Permit No. 1050 API 09-051-20102

County Hendry

Florida

Company NRM

35-4 Alico \_ Fee

Drilling Rate min/ft. Description/Remarks Depth Lith. 15 10 990-1020 - V pale orange, chalky, v fos, granular to sl nodular Ls; some Ls w/minor Qz sand & phos specks. 1020-1050 - Mixture of Ls as above & olive gray, fg xln Dol; possibly a few Lepidocyclina fragments. 1100'-1050-1150 - Vpo, chalky, fos Ls w/abundant Lepidocyclina; some Ls is part rexal. 1150-1180 - Vpo, fg, granular, fos Ls, Leps abundant. 1180-1260 - Ls, similar to above, but more silty and some  $\underline{Camerina}$  . &  $\underline{\texttt{Operculinoides}}$  . - 1200'-1260-1290 - Ls as above, but more rexal. 1290-1350 - Ls as above w/1-2% light brown 1300'chert. 1350-1410 - Ls similar to above, more silty, trace carbonaceous blebs/specks; <u>Camerina</u>, <u>Operc</u>, <u>Leps</u>; 2-4% lt brn chert. - 1400' 1410-1440 - Vpo, fg-vfg, silty, chalky Ls, some Leps & Camerina, trace carb specks, one Dictyoconus cookei. 1440-1500 - Vpo, v fos, mod-strongly rexal, chalky, granular Ls; common  $\underline{\text{D. cookei}}$ , some Ls is nodular. - 1500' 1500-1560 - Ls, similar to above, more silty & chalky, less fos, generally finer grained, some w/carb laminations. 1560-1710 - No samples. **.** 1600'. - 1700'-1710-1740 - Vpo, chalky, fos, sl carb Ls, common cones. 1740-1850 - No samples. - 1800**'**-1850-1910 - 80% vpo, chalky, fos Ls, common cones; 20% vpo-lt brn med xln Dol; minor clear Qz grs. - 1900**'**-1910-1970 - No samples. 1970-2000 - Ls/Dol as above, Dol at 15-20%; cones common. - 2000 **'**--2000-2030 - No samples. 2030-2060 - 80% Ls/20% Dol as above.2060-2080 - No samples. 2080-2110 - 70-80% Ls/20-30% Dol as above, a fe large cones. - 2100**'**-2110-2140 - No samples. 2140-2170 - 70% Ls/30% Dol as above. 2170-2350 - No samples. 22001

W-15,051, Labelle 4 SW Quad

1050 09-051-20102 Permit No. Florida API Hendry County NRM

35-4 Alico Company\_ \_ Fee **Drilling Rate** min/ft. Lith. Depth Description/Remarks 10 15 2170-2350 - No samples. - 2300**"**. 2350-2380 - Very pale orange, silty, chalky, sl carbonaceous Ls; 15-20% vpo, med xln Dol. 2380-2450 - No samples. - 2400 t 2450-2510 - 95% coarsely xln Dol, vpo, mod yel brn, pale yel orange & grayish orange & some grayish brown. 2510-2540' No sample. - 2500 <sup>1</sup> 2540-2570 - 50% Dol, f-crse xln, vpo & gray orange; 50% vpo, chalky Ls. 2570-2620 - No samples. - 2600° 2620-2650 - 100% vpo, white, & grayish orange, fg & micritic Ls. 2650-2680 - 60% Dol, med xln, vpo, grayish orange; 40% white chalky, fos Ls. 2680-2710 - Largely Dol, f-med xln, lt brn, dk yel orange & a little dark gray. - 2700' -Driller reported lost full returns @ 2560', then got intermittent returns to 2710', then no returns. - 28001-Rate of penetration data is very poor quality below 2517'. - 2900' - 3000**'**-- 3100 t-- 3200 <sup>-</sup>-- 3300**'**-

34001