DAY'S DRILLING

Permit #352 W-7474

Sun Oil 5-1 Collier Co(SFU) 1025' FEL, 1079' FNL sec 5, T46S R29E Sunoco Felda Field

Collier County, Felda Quad GL: 36' DF: 53' TD: 11,491' Spud: 10/03/65 P&A: 05/10/90

Washed & unwashed cuttings are available from the Florida Geological Survey cuttings library in Tallahassee. Brief lith log of washed/unwashed cuttings by R. S. Caughey in February 1999.

Depth in feet below DF	DESCRIPTION
GL-50	No samples
50-80	Siltstone, greenish gray, vfg sdy, phos, sltly calc, some is clayey; 1% loose phos grns & a few Qz grns.
•	Unwashed: Siltstone & 10-20% claystone.
80-110	As above, with more loose vf-f Qz sand.
•	Unwashed: Clayey siltstone & some claystone.
110-140	As above, more loose vf silts.
	Unwashed: Siltstone & 30-40% silty claystone.
140-170	80% Loose Qz sand, vf-f-m-c & common pebbles, ang-rnd; a few phos grns & rare pebbles; 20% Ls, wh, fos, mollusks; minor Ss & claystone.
	Unwashed: As above, with 10-20% silty claystone.
170-200	Siltstone, greenish gray, clayey, calc, sltly sdy(vf-f) & phos; 10-15% Ls, wh, fos, as above.
	Unwashed: As above, with 10-20% claystone, greenish gray, calc, silty.
200–230	Loose Qz sand, silt size-vf-f-some coarse; 30% Ls & mollusk shell frags; minor phos grs.
	Unwashed: More Ls & shell frags, less Qz sand; both washed & unwashed have much LCM(Lost Circulation Material).
230-260	As above, washed & unwashed, now sltly more Ls & shell frags.
260-290	As above, washed & unwashed, now 30-40% Ls, remainder is loose Qz sand.

Depth in feet below DF	DESCRIPTION
290-320	80% Loose Qz sand, f-m-some coarse; 20% Ls & mollusk shell frags; minor phos grs & grns.
,	Unwashed: No sample available.
320-350	Largely loose Qz sand, f-m-c, most is med & coarse; 2-4% loose phos grs & grns; 5% Ls & mollusk shell frags; minor v pale olive, fg, phos Ss; trace wh, dolosilt(?); minor LCM.
350–380	Ls, wh, sdy, phos, fos, some cheilostome & encrusting bryozoa, numerous mollusk shell frags, a few crab claws; 20% loose Qz sand, most is coarse; 1-3% loose phos grs/grns
	Unwashed: As above.
380-410	Ls, wh, it gray, sdy, fos, phos, com-numerous mollusks, common echinoid spines, cheilostome bryozoa present; some loose Qz sand & less than 1% phos grs.
•	Unwashed: As above.
410-440	Ls/fos as above, some encrusting bryozoa; 10-15% loose Qz sand, med & common coarse, rnd; 2-4% phos grs, grns & minor crust(?).
	Unwashed: As above, with 5-10% claystone & clayey siltstone.
440–470	Ls, yel gray-wh, sdy, phos, v fos, common cheilostome bryozoa, com-numerous mollusks, some encrusting bryozoa, a few gastropods; 5% loose Qz sand as above; tr-minor Dol, yel gray, fg xln, anhedral.
	Unwashed: As above, with 5% claystone & siltstone.
470–500	Ls/fos as above, a little Ls is v wkly dolomitized by vf, grayish yellow, euhedral xls; l% loose phos grs/grns; minor loose Qz sand; some calcite replaces some fossils.
	Unwashed: As above, with minor loose dolosilt particles.
500-530	Ls/fos as above, some cheilostome & encrusting bryozoa, com-numerous mollusks & echinoid spines; overall less phos & more calcite.
	Unwashed: As above.
530-560	As above; 2-3% Dol, yel gray, fg xln, subhedral/euhedral, phos.
	Unwashed: As above, with 10-20% dolomitic, phos marl.

Depth in feet below DF	DESCRIPTION
560-590	Dol, yel gray, some pale olive & med gray, vf-f xln, anhedral/subhedral, some is phos, some is vuggy, some with cheilostome bryozoa not replaced by Dol; 1-3% phos grs, grns, fos, crust, rare pebbles; 5% dolosilt, pale olive, clayey.
	Unwashed: As above, with ±50% dolomitic marl.
590-620	Dol as above.
	Unwashed: As above, with 50-60% dolomitic marl.
620–650	Ls, wh, v lt gray, fg & micritic, sltly phos-phos, sltly fg sdy, fos, mollusks, some to common gastropods (no cheilostome bryozoa).
650–680	Ls, wh, v pale orange(vpo), grayish orange, fg, sltly sdy to sdy(vf-f-some med, subang-subrnd), minor phos grs, a few mollusks, rare forams(?), rarely Ls is wkly to modly dolomitized by fine euhedral/subhedral, grayish orange xls minor wh Ss; trace calcrete(?).
	Unwashed: As above, with minor silt/clay & wh, clayey, poorly consolidated Ls.
680-710	As above, but overall more sdy & sltly more Ss; little to no dolomitic Ls or calcrete(?).
710-740	As above, with $5-10\%$ fos hash Ls, sdy, v sltly phos, porous, fossils cemented by vf drusy calcite.
740-770	As above, less fos hash Ls; some wh, fg, "chalky" Ls, with little to no sand & rare to no phos; minor Dol, grayish orange, f xln, subhedral; some xln calcite.
	Unwashed: As above, with ±50% wh, clayey, poorly consolidated Ls.
770-800	As above, a few gastropods & echinoid spines; some to common calcite.
,	Unwashed: As above, with 50-80% wh, clayey, poorly consolidated Ls.
800-830	As above, with 30% Ss, v pale orange, v 1t gray, commonly cemented by drusy calcite, rare phos, some fos; minor Dol, grayish brn, f xln, anhedral/subhedral.
	Unwashed: As above, some wh, clayey, poorly consol Ls.
830-860	Ls, vpo, fg, sdy to v sdy, rare to no phos, few fos. Unwashed: As above.
	on abuse in above.

Depth in feet below DF		DESCRIPTION
860-890	1	Ls as above, but overall more sdy, some grades to a calc Ss.
•		Unwashed: As above, with 20% loose silt & vf-f Qz sand.
890–920		65% Ls, v lt gray to yel gray, sdy, phos, fg, fos, mollusks, crab claws; 35% Ls, yel gray, porous, v fos, sltly sdy, fossils have rnd edges & unit is cemented by fine drusy calcite.
,		Unwashed: As above.
920-950		Ls as above, overall more vlt gray-yel gray, sdy, phos Ls; some coarsely xln calcite.
•		Unwashed: As above.
950–980		Ls as above, common coarsely xln calcite, common to numerous mollusks, some crab claws.
*.		Unwashed: As above.
980-1010		Ls as above, about equal vlt gray & yel gray, numerous mollusks, some crab claws, common calcite.
		Unwashed: As above.
1010-1040		Dol, yel gray, some grayish brn, vf xln, anhedral/subhedral, rare minute phos grs, no sand; minor Dol, grayish orange, med xln, euhedral; minor Ls/fos as above; minor Ls, v pale orange, microgranular, v fos.
		Unwashed: As above.
1040-1070		Ls, vpo to wh, microgranular, some granular, v fos, some peloids & forams, no sand, no phos; some Dol as above.
		Unwashed: As above, with some wh, fg, "chalky" Ls.
1070-1100		Ls as above, now stgly rexal, calcite commonly replaces some fos & Ls matrix, common Lepidocyclina, some are large & saddle shape, some small, thin & flat, a few red algae fragments.
		Unwashed: As above, with 5% pale olive, sdy, clayey, calc siltstone.
		Last cutting sample within the Floridan aquifer@1070'-1100'

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Brief lith log of washed/unwashed cuttings by R.S. Caughey 02/99.

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#352, W-7474, Felda Quad

GL-40' No cutting samples available.

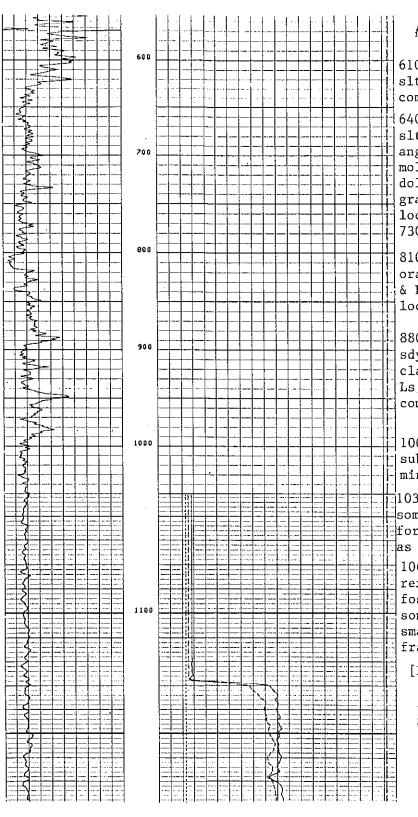
40-130' Siltstone, grn gray, vfg sdy, phos, sltly calc, clayey; 10-40% claystone, grn gray, calc, silty.

130-160' Qz sand, vf-f-m-c & common pebbles, ang-rnd; minor phos grns & rare pebbles; some Ls & claystone.

160-190' Siltstone, grn gray, calc, clayey, sltly sdy & phos; some Ls(wh, fos, mollusks) & claystone.

190-310' Loose Qz sand, silt size-vf-f-some coarse; minor phos grs & grns; 10-40% Ls & mollusk shell frags.

310-350 Loose Qz sand, f-m-c, most is med & coarse; 2-4% loose phosgrs grns; minor Ls/mollusks, Ss, dolosil 350-380' Ls, wh, sdy, phos, fos, comnumerous mollusks, some cheilostome & encrusting bryozoa, crab claws. 380-430' Ls/fos as above, less common cheilostome/encrusting bryozoa. 430-550' Ls, yel gray-wh, sdy, phos, some-common cheilostome/encrusting oryozoa, com-num mollusks, some gastropods, echinoid spines; minor loose Qz sand, phos grs/grns, claystone & siltstone; trace Dol. 550-610' Dol, yel gray, vf-f xln, anhedral/subhedral, some is phos, some s vuggy, cheilostome bryozoa not ceplaced by Dol; ±50% dolomitic marl.



#352, W-7474, Felda Quad

610-640' Ls, wh-v lt gray, fg & micritic, sltly phos-phos, sltly fg sdy, some to common gastropods, mollusks.

640-810' Ls, wh, v pale orange, fg, sltly sdy to sdy(vf-f-some med, subang to subrnd), minor phos grs, a few mollusks, rare forams, rarely wkly dolomitized by fine euhedral/subhedral, gray orange xls; locally fos hash Ls; locally minor Ss & Dol; ±50% marl @ 730'to 810'.

810-880' Ss & Ls, v lt gray & v pale orange, rare to no phos, Ss is calc & Ls is sdy to v sdy, few fossils; locally minor Dol, f xln, anhed/subhed.

880-1000' Ls, v lt gray to yel gray, sdy, phos, fg, fos, mollusks, crab claws; up to 30% fos hash, porous, Ls, cemented by f drusy calcite; common coarsely xln calcite 940'-1000'.

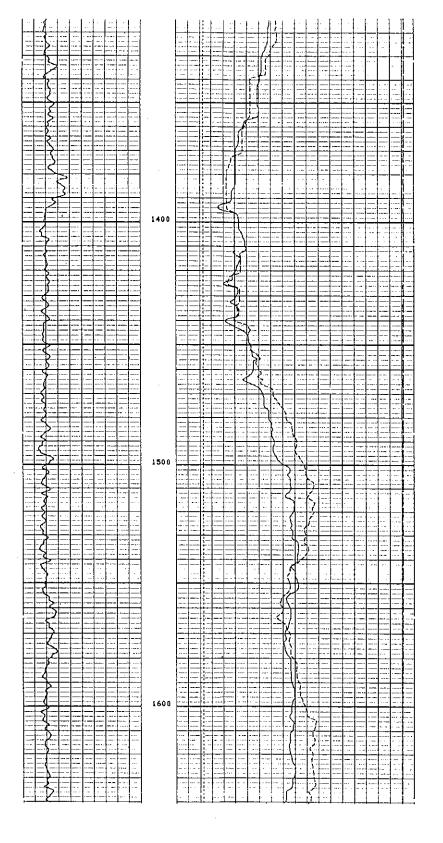
1000-1035' Dol, yel gray, vf xln, anhed/subhedral, rare minute phos grs, no sandminor Ls, vpo, microgranular, v fos.

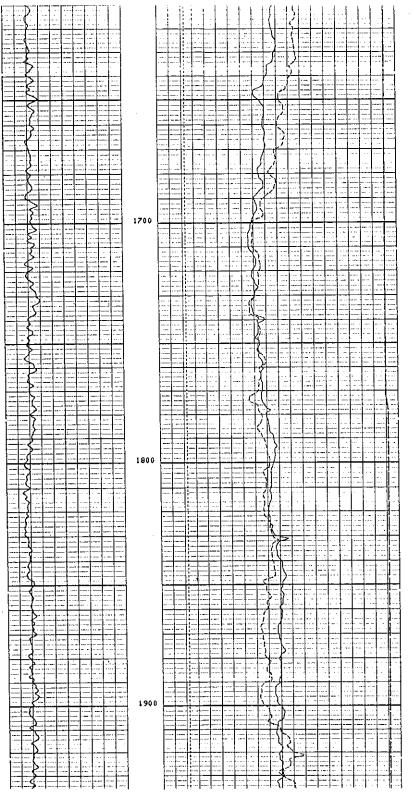
1035-1060' Ls, vpo-wh, microgranular, some granular, v fos, some peloids & forams, no sand, no phos; some Dol as above.

1060-1090' Ls as above, now stgly rexal, calcite commonly replaces some fos & Ls matrix, common Lepidocyclina, some are large & saddle shape, some small, thin & flat, a few red algae fragments.

[Last cutting sample available @ 1060-1090'BGL. Depths on this lith log are given in feet below ground level]

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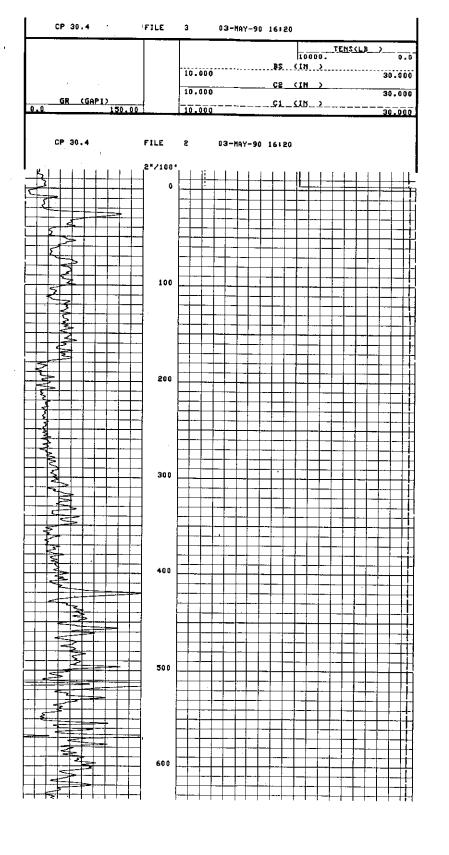




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