

## FLA-CHA-OT-6

- 0-10 | 100% ls, wh, s.f.
- 10-20 | 100% ls, wh-lt grey, s.f.
- 20-30 | 100% ls, grey s.f.
- 30-40 | do + Tr, ls, blk phos nodules
- 40-50 | do
- 50-60 | buff-lt grey-off wh, vfx raly, hard, porous, sdy, phos dol. sd is clear, grey or etc  
+ phos is f, blk-brn. Tr, ls, blk-brn phos nodules & ls, s.f.
- 60-70 | buff-off wh, fx raly, hard, v porous, sdy, phos dol. Phos sd as above  
compare 20% of rx No. Tr.
- 70-80 | do
- 80-90 | do
- 90-100 | off wh, vfx raly, hard, porous dol w/ Tr, phos sd as above
- 100-101 | do but off wh-cmy
- 110-20 | buff, vfx raly, hard, porous, phos dol. Phos is blk, f nodules
- 120-30 | do
- 130-40 | do Tr, ls, s.f.
- 140-50 | do + 30% ls, s.f.
- 154-64 | off wh, vfx raly, sdy, porous dol w/ 10% small blk-brn phos nodules diss.
- 164-74 | do
- 174-84 | do
- 184-94 | do but highly vsgy & only sdy phos. Tr, lt grey, translucent;  
colloidal ckt
- 194-04 | do no ckt
- 204-14 | do Tr ckt

- 214-24 | do no ch + wh, soft, sdy, phos ch
- 224-34 | do Tr. ch
- 234-44 | do no ch
- 244-54 | do Tr. ch
- 254-64 | do.
- 264-74 | do no ch
- 274-84 | ch w/ buff, murg, hard, porous, vug, slightly phos dol
- 284-94 | do few vugs
- 294-04 | lt grey, murg, hard, ty, dense<sup>dot</sup> + wh-ol, hard, porous, slightly phos ch
- 304-14 | do
- 314-24 | lt grey, v. xialy, hard, porous dol w/ widely sc. blk-brn, f-M phos nodules
- 324-34 | wh, murg, hard, porous, less ls & some repl. by lt grey, v. xialy dol
- 334-44 | do w/ some diss, blk-brn, f, phos nodules in ls
- 344-54 | do
- 354-64 | do chy v. little doler repl.
- 364-74 | do
- 374-84 | do
- 384-94 | do
- 394-04 | do
- 404-14 | do
- 414-24 | wh, murg, hard, porous, chy, ls & blk-brn, f, diss. phos nodules. Minor repl. by P. xialy dol
- 424-34 | buff, v. xialy, hard, porous dol w/ diss. f, blk-brn phos nodules & clay, f, g, s  
 SR qtz sd sd + phos = 10%
- 434-44 | do

- 444-54 | off wh, soft, porous <sup>pet</sup> ch
- 454-64 | do
- 464-74 | do
- 474-84 | buff, v. fine, hard, porous dol w/ Tr, v. f, blk-brn phos nodules
- 484-94 | do some pieces v. suggy
- 494-04 | do
- 504-14 | do
- 514-24 | do
- 524-34 | do
- 534-44 | do
- 544-54 | do chy
- 554-64 | lit gray, v. fine, hard, v. porous dolite ss/diss, f, blk-brn phos nodules
- 564-74 | do
- 574-84 | do
- 584-94 | wh, soft, porous ch w/ diss, f, blk-brn phos nodules & fgn, clean, SR & z sd
- 594-04 | do
- 604-14 | do dolite & no sd
- 614-24 | do
- 624-34 | do
- 634-44 | lit gray, microp, hard, porous ls w/ v small blk specks diss.
- 644-54 | do
- 654-64 | do
- 664-74 | wh-cmy, soft, porous dolite, foss ch w/ diss, chag fgn, SR & z sd
- 674-84 | do
- 684-94 | wh-cmy, microp, hard, porous, chy, foss, slightly sd, & phos ls

694-04	do	
704-14	do	IS MATRIX (log as foss ch)
714-24	do	(possibly a microprogram)
724-34	do	
734-44	do	w/ some sparry culture replc.
744-54	do	
754-64	do	
764-74	do	
774-84	do	
784-94	do	
794-00	do	
800-10	do	
810-20	do	
820-30	do	
830-40	do	
840-50	do	
850-60	do	
860-70	do	
870-80	do	no sparry replc.
880-90	do	
890-00	do	
900-10	do	
910-20	do	In sparry culture replc.
920-30	do	
930-40	do	

940-50	do	
950-60	do	
960-70	do	
970-80	do	
980-90	do	
990-00	do	
1000-10	do	
1010-20	do	fewer fossils than above
1020-30	do	
1030-40	do	
1040-50	U.S.	
1050-60	crmy, porous, soft, v chyls <sup>MICRO</sup> matrix w/ abund pels	(lg asch)
1060-70	buff, porous, soft, v chyls <sup>MICRO</sup> matrix w/ abund foss & pels	do
1070-80	do	mainly pels
1080-90	buff, porous, soft, v chyls <sup>MICRO</sup> w/ abund pels & many v lg. foss. forams	(lg asch)
1090-00	do	
1100-10	do	crmy
1110-20	do	but fewer lg. forams than above
1120-30	do	
1130-37	do	
1135-40	do	
1140-50	do	fewer pels than above
1150-60	do	
1160-70	do	
1170-80	do	

- 1180-90 | bny, v f xraly, hard, ty, it, dense, slytcs, vygy dol [lg AS anh]
- 1190-00 | N.S. do
- 1200-10 | do do
- 1210-20 | AS(1080-90) dolu w/ dol AS(1180-90)
- 1220-30 | do
- 1230-40 | do
- 1240-50 | do
- 1250-60 | AS(1080-90) w/ tay v f xraly, hard, porous dol. All<sup>ch</sup> repl. by dol [lg AS dol]
- 1260-70 | do
- 1270-80 | do
- 1280-90 | do
- 1290-00 | do
- 1300-10 | do v f f xraly
- 1310-20 | wh-crmy, soft, porous ch matrix w/ abund f. fcs dolts 10 A tay f-M xraly, hard porous dol
- 1320-30 | do
- 1330-40 | do
- 1340-50 | do
- 1350-60 | do
- 1360-70 | Crmy, murg, porous, soft ch matrix w/ abund small fcs dolts, dolts 10 A bny, f-M xraly, hard, porous dol
- 1370-80 | do
- 1380-90 | do dolcs v f-M xraly
- 1390-00 | do dol is v f-C xraly
- 1400-10 | do

1410-20	do	
1420-30	do	
1430-40	do	
1440-50	do	
1450-60	do	
1460-70	do	little delta
1470-80	do	abund delta
1480-90	do	
1490-00	do	
1500-10	do	
1510-20	do	
1520-30	do	
1530-40	do	
1540-50	do	
1550-60	do	little delta
1560-70	do	highly delta
1570-80	do	
1580-90	tan-bng, f-M x-ray, hard, porous del	Tr, tan, soft, fissile sh [lg as ruh]
1590-00	do	
1600-10	Crny, mic, porous, soft ch, many w abund pds & serans. Delta to bng, f-M x-ray, hard, porous del.	Tr, sh as (1580-90)
1610-20	do	
1620-30	do	
1630-40	do	
1640-50	do	

1650-60	do	
1660-70	do	but dol is brn, of xrls, hard, fairly tight
1670-80	do	
1680-90	do	
1690-00	do	
1700-10	brn, Crystals, hard, porous, sacc dol	[log AS on h]
1710-20	14 tan-Mbrn, f-mung, hard, tight, dense dol	do
1720-30	14 tan-Mbrn - clear, f-C xrls, hard, tight, dense dol	do
1730-40	do	do
1740-50	do	do
1750-60	do	brn f-C xrls dol w/ patches of clear Crystals, sacc dol
	STARTS AT (1720-30)	do
1760-70	do	do
1770-80	do	do
1780-90	do	do
1790-00	do	w/ some Arg. ARCS do
1800-10	do	
1810-20	do	
1820-30	do	
1830-40	do	
1840-50	do	
1850-60	tan, f-mung, hard, tight, dense dol w/ patches of clear tan, Crystals, sacc dol	
1860-70	tan-Mbrn, f-mung, hard, tight, dense dol	
1870-80	do	
1880-90	do	



- 1890-00 | do
- 1900-10 | do
- 1910-20 | do
- 1920-30 | do
- 1930-40 | do
- 1940-50 | do
- 1950-60 | N.S.
- 1960-70 | tan-crmy, M-micro, ind, porous dol w/ crmy, porous soft, foss ch
- 1970-00 | do
- 2000-10 | do
- 2010-20 | do [lg as an h]
- 2020-30 | tan, micrhard, tyrt, dense dol do
- 2030-40 | do do
- 2040-50 | do
- 2050-60 | tan-brn, p-xrally, hard, porous dol
- 2060-70 | do + 35% blk soft, high carb (coal-ly) \*
- 2070-80 | tan-brn, micro, hard, tyrt, dense dol in (coal-ly)
- 2080-90 | do
- 2090-00 | As(2060-70) \*
- 2100-10 | do buff dol \*
- 2110-2220 | N.S.
- 2220-30 | Crmy, micro, porous, soft, chy matrix w/ abund small Pass dol<sup>to</sup> [brn-buff, fossiliferous, Pr. fly-coal]
- 2230-40 | do
- 2240-50 | do
- 2250-60 | tan, micrhard, tyrt, dense dol

2260-70 | AS(2220-30)

2270-80 | do

2280-90 | AS(2250-60)

2290-00 | Cray-taz, ming soft, porous, c. by, dolom matrix w/ <sup>Abund foss</sup> w/ Tr. E. by. coal] Pol is  
tan-buff, uf-f. really hard, porous

2300-10 | do more highly dolc than above

2310-20 | do

2320-30 | do less dolc than (2300-10)

2330-40 | do

2340-50 | do

2350-60 | do

2360-70 | wh, ming, soft, ash

2370-80 | do

2380-90 | do

2390-00 | foss ch as(2290-00) in [coal-ly] Pol as(2290-00)

2400-10 | do

2410-20 | do

2420-30 | do

2430-40 | do

2440-50 | do

2450-60 | do

2460-70 | do

2470-80 | do

2480-90 | do

2490-00 | do less dol than above

2500-10	do
2510-20	do
2520-30	do
2530-40	do
2540-50	do
2550-60	do
2560-70	do highly dolc no [coal-ly]
2570-80	do less dolc To [coal-ly]
2580-90	do
2590-00	tan-buff-brn, C-Mung, hard, tight, dense dol
2600-10	do
2610-20	do
2620-30	do
2630-40	do
2640-50	M.S.
2650-60	offwh-crmy, fine, porous, soft, chy matrix w abundant microfoss. Relat- to a tan, C-mung, hard, porous, tight dol
2660-70	do
2670-80	do
2680-90	dol as (2650-60) w some replc by wh, mung soft ash
2690-00	do
2700-10	do
2710-20	do
2720-30	do
2730-40	do

2740-50	do
2750-60	do
2760-70	do no Anh
2770-80	do
2780-90	do
2790-00	do
2800-10	do
2810-20	do
2820-30	wh-cmy, mung porous, ind, chy, entry w/ abund. musc foss
2880-90	do
2890-00	do
2900-3090	N.S.
3090-70	tan, C-xialy, sacc, porous, hard dol. rials now Anh.
3070-80	do
3080-90	do sacc. tykt
3090-00	do
3100-10	tan, f-M-xialy, hard, tykt dol
3110-20	do
3120-30	do tan-ultgy
3130-40	do
3140-50	do w/ wh, f-xialy, hard Anh
3150-60	do
3160-70	do
3170-80	tan-gry, micr, hard, tykt, dense dol w/ wh, f-C-xialy, hard Anh
3180-90	Anh as (3170-80)

- 3190-00 | do w dol as(3170-80)
- 3200-10 | buff, murg, hard, light, dense. dol
- 3210-20 | do buff-ltgr
- 3220-30 | buff, murg, soft, porous dol
- 3230-40 | do
- 3240-50 | do
- 3250-60 | Crny, murg, soft, porous dol w relat foss ch texture w ch, fixaly, soft anh
- 3260-70 | do
- 3270-80 | do Crny-ltgr
- 3280-90 | do
- 3290-00 | do
- 3300-10 | Crny-ltgr-buff, murg, porous dol w relat foss ch texture
- 3310-20 | do
- 3320-30 | do
- 3330-40 | do
- 3340-50 | do
- 3350-60 | do
- 3360-70 | N.S.
- 3370-80 | do w abund wh, fixaly, hard anh
- 3380-90 | do no anh
- 3390-00 | do
- 3400-10 | as(3370-80) Crny only
- 3410-20 | do no anh
- 3420-30 | as(3400-10)
- 3430-40 | do

3440-50 | Crny, murg, porous dol w relur foss ch texture  
3450-60 | do  
3460-70 | do  
3470-80 | do  
3480-90 | do  
3490-00 | do  
3500-10 | do  
3550-60 | do  
3600-10 | do uf-micro anhyd  
3650-60 | do  
3660-10 | buff-crny - lt gry, fixtaly, porous, soft dol w relur foss ch texture, Anhyd replaces  
3700-10 | do  
3710-20 | do  
3720-30 | lt gry, murg, porous, soft, chy dol w relur foss ch texture  
3750-60 | do  
3800-10 | do  
3810-20 | do  
3820-30 | buff-gry, fixtaly, porous, hard dol  
3830-40 | AS(3720-30)  
3850-60 | do  
3900-10 | do  
3950-60 | do  
3960-70 | dol AS(3820-30)  
3970-80 | dol AS(3720-30)  
3980-90 | do

3990-00 | do

4000-10 | do

4010-20 | do

4020-30 | lt gray, microhard, tight, dense dol nodules

4030-40 | do

4040-50 | do

4050-60 | do

4060-70 | crgy-buff, v. fine, porous, soft, dol w/ relief foss ch texture

4070-80 | do

4080-90 | do

4090-00 | lt gray, micro, hard, tight, dense dol nodules

4100-10 | wh, frstly, hard anh

4110-20 | do

4120-30 | do

4130-40 | do

4140-50 | Gray-buff, frstly, hard, porous dol

4150-60 | M gray, micro, hard, tight, dense dol nodules

4160-70 | do

4170-80 | do

4180-90 | do

4190-00 | wh, micro, hard anh

4200-10 | do

4210-20 | do

4220-30 | wh-crgy, micro, med, porous, chydolic, foss ls

4230-40 | M gray, micro, hard, tight, dense dol nodules

- 4240-50 | do
- 4250-60 | do
- 4260-70 | wh-crmy, porous, soft, fass ch
- 4300-10 | do
- 4310-20 | do
- 4320-30 | Mgry, micro, hard, tight, dense dol nodules
- 4330-40 | Crmy-1t buff, f-micro, hard, porous, <sup>slightly</sup> anhyd dol w reluc. fass ch ~~100%~~
- 4340-50 | do
- 4350-60 | do
- 4360-70 | do
- 4370-80 | f (4320-30)
- 4380-90 | A8 (4330-40)
- 4390-00 | do
- 4400-10 | wh, frxtaly, hard an h
- 4410-20 | do
- 4420-30 | do
- 4430-40 | dol as (4330-40)
- 4440-50 | dol as (4320-30)
- 4450-60 | dol as (4330-40)
- 4460-70 | dol as (4370-30)
- 4470-80 | wh, frxtaly, hard an h
- 4480-90 | dol as (4330-40)
- 4490-00 | do
- 4500-10 | wh, vf xtaly, hard an h
- 4510-20 | wh-tay, micro, hard an h



4520-30 do

4530-40 Crng. murg soft, porous, slightly anhedral dol w/ white fossiliferous texture

4540-50 do

4550-60 wh, murg soft anh

4560-70 do

4570-80 do wh-tan

4580-90 dol as (4530-40) but crng-buff

4590-00 Anh as (4570-80)

4600-10 do

4610-20 do

4620-30 dol as (4580-90)

4630-40 wh-tan, fossiliferous anh

4640-50 do

4650-60 dol as (4580-90)

4660-70 do

4670-80 do

4680-90 do

4690-00 do

4700-10 wh-tan, murg hard anh

4710-20 do

4720-30 do

4730-40 do

4740-50 do

4750-60 dol as (4580-90)

4760-70 Anh as (4700-10)

4770-80	do
4780-90	dol as (4580-90)
4790-00	do
4800-10	do
4810-20	wh-crmy, mure, hard pnh
4820-30	do
4830-40	do
4840-50	dol as (4580-90)
4850-60	do
4860-70	do
4870-80	do
4880-90	do
4890-00	Crmy, mure, porous, and dol <sup>rich</sup> MAT-ix w abundant roots & foss frags. Slightly anhyd
4900-10	do
4910-20	do
4920-30	do
4930-40	do
4940-50	do
4950-60	do
4960-70	do
4970-80	do
4980-90	Crmy - litrgy, mure, ind, porous, Sj dol w some rd & foss ls texture
4990-00	do
5000-10	do
5010-20	do

5020-30	do
5030-40	do
5040-50	do
5050-60	do
5060-70	do
5070-80	do all tan not arg slightly anhyd
5080-90	do
5090-00	do
5100-10	do
5110-20	do
5120-30	do few xltur faces & ools
5130-40	tan, micr, ind, porous, anhyd dol w/ some xltur faces to surface
5140-50	do
5150-60	do
5160-70	do
5170-80	do
5180-90	do
5190-00	do
5200-10	do
5210-20	do
5220-30	do
5230-40	do
5240-50	It gray, <sup>buff</sup> micr, ind, porous, arg dol. Slightly anhyd
5250-60	do
5260-70	do not anhyd

5270-80	do		
5280-90	do		
5290-00	do	Micro-uf. rarely	
5300-10	do		
5310-20	do		
5320-50	N.S.		
5330-60	do	Anhyd	not Arg
5340-70	do		
5370-80	do		
5380-90	do		
5390-00	do		
5400-10	do	w/ relief foss ls texture	
5410-20	do	not Anhyd	
5420-30	Crmy, micrg, ind, porous	do w/ some relief foss ls texture	Slightly Anhyd
5430-40	do		
5440-50	do		
5450-60	do		
5460-70	do	w/ wh, f. rarely, hard Anh	
5470-80	do		
5480-90	do		
5490-00	N.S.		
5570-80	buff, uf. micrg, hard, porous, Arg	do w/ some relief foss ls texture	
5580-90	do	slightly Arg	
5590-00	do		
5600-10	do	w/ wh, uf. rarely, soft Anh	no relief foss

- 5610-20 | do
- 5620-30 | do
- 5630-40 | Crmy, porous, soft, micro, chy matrix w/ abund microfoss, <sup>+ Sass frags</sup> V minor dolite to tan, fairly hard, porous dol
- 5640-50 | do
- 5650-60 | do
- 5660-70 | do
- 5670-80 | do
- 5680-90 | do
- 5690-00 | do
- 5700-10 | lt gray, micro, soft, porous dol
- 5710-20 | do
- 5730-40 | do
- 5800-10 | do
- 5850-60 | do + blk, fissile, soft sh (starts at 5700-10)
- 5860-70 | do
- 5870-80 | Crmy, porous, soft, micro, chy matrix w/ abund microfoss, <sup>+ Fass frags</sup> + blk, fissile, soft sh
- 5900-10 | do
- 5950-60 | do
- 5980-90 | N.S.
- 5990-00 | do
- 6000-10 | do
- 6050-60 | do
- 6080-00 | do no sh Highly dolie. Dol is tan, fairly hard, fairly fly b. + (kick only)
- 6090-00 | do are highly dolie  
A.K.O.S
- 6100-10 | do

6110-20	Crmy, micro, soft, porous, phy. no. 1-2. 1) Abund. microfoss. <sup>of foss. fragments</sup> Deltz to a crmy-ultqny, fairly hard, fairly tight del.
6150-60	do
6200-10	do del. is tan-crmy-ultqny & tight-porous
6250-60	do less deltz than above
6300-10	do
6350-60	do
6400-10	do
6450-60	do
6500-10	do
6550-60	do highly deltz
6580-90	do less deltz than (6550-60)
6590-00	N.S.
6600-10	do little deltz
6650-60	do
6700-10	do
6750-60	do
6800-10	do
6850-60	do
6890-00	do
7000-10	do
7100-10	do more deltz than above
7200-10	do little deltz
7300-10	do
7400-10	do

7470-80	N.S.	
7500-10	do	
7600-10	do	
7700-10	do	
7720-10	ultray - off wh, micro, soft, porous	chy ls. Contains some small foss frags
7800-10	do	
7850-60	do	
7860-70	do	Tr. dk bnngy, hard, fissile sh w many v small wh chy lenses
7870-80	N.S.	
7880-90	do	ind - soft
7890-00	do	
7900-10	do	no sh as above but Tr. blk, fissile, soft, carb sh
7950-60	do	
8000-10	do	
8050-60	do	
8100-70	ultray - off wh, micro, ind, porous, chy ls w scatt, small foss frags.	Tr. lt gray, fissile, soft, waxy, slightly calc sh + blk, fissile - blocky, hard, carb sh
8150-60	do	ls is v slightly Arg + more chy than above
8200-10	do	chy ls - ch
8210-20	do	
8220-30	do	
8230-40	bnngy, micro, soft, porous, <sup>slightly</sup> foss	All chy w 5% blk, fissile, hard calc, carb sh
8250-60	do	
8300-10	do	
8310-20	do	

- 8320-30 | do
- 8330-40 | dk gray, fissile, soft, calc sh
- 8350-60 | do
- 8390-00 | do
- 8400-10 | do
- 8410-20 | Crny, porous, ind, foss ch ul sh as (8330-40)
- 8420-30 | do
- 8430-40 | buff, micro-uf craly, hard-soft, porous dol ul sh as (8330-40)
- 8440-50 | do
- 8450-60 | do
- 8460-70 | do
- 8470-80 | Crny, micro, soft, porous, dol, foss ch ul sh as (8330-40), dol is as (8420-40)
- 8500-10 | do
- 8550-60 | do highly dolc
- 8600-10 | do slightly dolc
- 8650-60 | do
- 8700-10 | do
- 8750-60 | do v highly dolc
- 8760-20 | buff tan, f-micro, soft, porous dol - some plat foss ch texture In, sh as above
- 8800-40 | do
- 8830-40 | N.S.
- 8850-60 | do
- 8870-80 | do
- 8880-90 | do
- 8890-00 | Crny, micro, soft, porous, dol, foss ch. Dol is buff. l. gray, f-micro, ind, porous. ul sh as (8330-40)



8950-60 | do  
9000-10 | do all delta  
9050-60 | do not all delta  
9100-10 | do all delta  
9150-60 | do  
9160-70 | do  
9170-80 | do  
9180-90 | do  
9190-00 | do  
9200-10 | wh, mung, soft Anh. This is same as above w/ lensed strings of Anh  
9210-20 | do  
9220-30 | do  
9230-36 | do no Anh (9236-9330 N.S.)  
9330-40 | do  
9340-50 | do  
9350-60 | Crmy, mung, porous, soft, dolc, foss ch w/ Anh as above. Dol is tan, f-mung, hard porous  
9360-70 | do  
9370-80 | do  
9380-90 | do no Anh  
9390-00 | do  
9400-10 | do  
9410-20 | do  
9420-30 | do  
9430-40 | do all dolcs w/ xialy, buff  
9440-50 | As (9350-60)

9450-00 buff-cmy, soft, porous, delic foss ch. Dil is tan-buff, f-ming ind, porous.  
Has some wh, ming soft pink lenses & stringers. Sh as above still present

9460-70 do

9470-80 do

9480-90 do

9490-00 do

9500-10 do no pink

9510-20 do

9520-30 lt grey, mung hard, <sup>FAMILY</sup> tight, dense ls w/ stringers of blk, fissile, hard carb sh

9530-40 do

9540-50 do

9550-60 N.S.

9560-70 do

9570-80 do

9580-90 do

9590-00 do

9600-10 buff-cmy, soft, porous, foss ch

9610-20 do

9620-30 do

9630-40 do

9640-50 lt grey buff, mung hard, family tight, dense ls <sup>with</sup> shaly, foss frags & ools w/sh as (9520-30)

9650-60 do

9680-90 do

9690-00 N.S.

9700-10 do

9710-20 | do

9720-30 | Crny, soft, porous, murg, Anhyd, base ch

9730-40 | tan, v. fissile, hard, porous dol

9740-50 | do

9750-60 | do

9760-70 | ls as (9640-50)

9770-80 | do

9780-90 | do

9790-00 | do

9800-10 | do

9810-20 | do

9820-30 | do

9830-40 | do

9840-50 | do

9850-60 | ls as (9720-30) no an h

9860-70 | ls as (9640-50)

9870-80 | do

9880-90 | ls as (9720-30) no an h

9890-00 | ls as (9640-50)

9900-10 | do

9910-20 | do

9920-30 | do

9930-40 | (Samples unwashed, here to T.P.) ls as (9720-30) no an h

9940-50 | lt gray - buff, murg, hard, ty lit, dense ls tan, blk, fissile, hard, camb sh

9950-60 | do

10,000-10 | do  
10,050-60 | Cmy, soft, <sup>slightly</sup> parougnddu, foss ch. Pol is ltry-buff, f-ming, hard, pears. Pears  
do | AT (10,010-20)

10,100-10 | is as(9940-50)

10,150-60 | is as(10,050-60)

10,200-10 | do cmy-buff

10,250-60 | is as(9940-50) in foss

10,300-10 | is as(10,050-60) cmy-buff

10,350-60 | is as(9940-50) now foss than above but still just in

10,400-10 | do

10,450-60 | do

10,500-10 | is as(10,050-60) cmy-buff

10,540-90 | N, S,

10,540-50 | N, S,

10,550-60 | is as(9940-50)

10,600-10 | do

10,650-60 | do

10,690-00 | is as(10,050-60) cmy-buff w/ wh, murg, soft ANH

10,700-30 | N, S,

10,720-40 | wh, murg, soft ANH

10,740-50 | is as(10,050-60)

10,750-60 | buff - Mrgy - ltry, murg, hard, fyt, dnce is w/ scatt, foss material

10,760-70 | wh, murg, soft, ANH

10,770-80 | do

10,780-90 | is as(10,050-60)

10790-00| Crny, porous, soft, foss ch  
10800-10| do  
10810-20| buff, gry, mury, porous, soft, foss ls  
10820-30| do  
10830-40| buff, gry, mury, hard, lg, Jansen ls  
10840-50| As(10810-20)  
10850-60| As(10830-40)  
10860-70| As(10810-20)  
10870-80| As(10830-40)  
10880-90| As(10810-20)  
10890-00| As(10810-20)  
10900-10| As(10830-40)  
10910-20| gry-buff, vt-mure, ind, porous dol  
10920-30| do  
10930-40| ls As(10830-40)  
10940-50| do  
10950-60| dol as(10910-20)  
10960-70| do  
10970-80| do  
10980-90| do  
10990-00| ls as(10830-40)  
11000-10| do  
11010-20| do  
11020-30| do  
11030-40| do

- 11,610-20 | do
- 11,620-810 | N.S. [Samples extremely poor 11,810 - T. O.]
- 11,810-20 | lt grey - buff, <sup>crmy</sup> micr, ind, porous, ch, ls w stringers of blk, brn, fissile sh
- 11,820-30 | do
- 11,830-40 | do
- 11,840-50 | do
- 11,850-60 | do
- 11,860-70 | do
- 11,870-80 | do
- 11,880-90 | lt grey, micr, hard, ty, it, dense ls
- 11,910-20 | do
- 11,920-30 | do
- 11,930-40 | ls as (11,810-20) but all crmy
- 11,940-50 | do
- 11,950-60 | N.S.
- 11,960-70 | do
- 11,970-80 | do
- 11,980-90 | do
- 11,990-00 | do
- 12,000-10 | do
- 12,020-30 | do
- 12,030-110 | do
- 12,040-50 | do
- 12,050-60 | ls as (11,880-90)
- 12,060-70 | do

12,070-80 | ls ASC(11,930-110)

12,080-90 | Gry, micro, hard, tight, dense ls

12,090-00 | do

12,100-10 | do

12,140-50 | do

12,150-60 | do

12,160-70 | Crny, micro, porous, soft, foss, ch, ls ✓

12,170-80 | Gry, micro, hard, tight, dense ls

12,200-10 | do

12,230-40 | do

12,240-50 | ls ASC(12,160-70)

12,250-60 | ls ASC(12,170-80)

12,260-70 | do

12,270-80 | do

12,280-90 | do

12,290-00 | Wh, micro, hard Anh

12,340-50 | do

12,350-60 | dkbrn-dkbrngry, micro, hard, tight, dense ls w/ scatt. small ools

12,360-70 | do

12,370-80 | do

12,380-90 | Anh ASC(12,290-00)

12,390-00 | do

12,400-10 | do

12,410-20 | ls ASC(12,350-60)

12,420-30 | N.S.

12,430-40 | wh, mung hard, awh

12,440-50 | ls ASC (12,350-60)

12,450-60 | Crmy, porous, soft, chy, Cass. ls

12,460-70 | do

12,470-80 | dk qry, mung hard, tyty, dense ls w/ scallid, ools

12,480-90 | do no ools

12,490-00 | ls ASC (12,450-60)

12,500-10 | do

12,510-20 | do

12,520-30 | do

12,530-40 | do

12,540-50 | do

12,550-60 | do

12,560-70 | do

12,570-80 | ban-ban qry, mung hard, tyty, dense ls

12,580-90 | do

12,590-00 | do

12,600-10 | do

12,610-20 | ls ASC (12,450-60)

12,620-30 | do

12,630-40 | do

12,640-50 | dk qry - dk bry, mung hard, tyty, dense ls w/ in. ools

12,650-60 | do

12,660-70 | wh, firm, soft, awh

12,670-80 | do



12700-10 do

12710-20 do

# Core Description

Denver Basin  
Core

P178

FLA-CHA-OT-6

5502-03 | off wh, f xtal, hard, porous, vuggy dol w patches of wh, M xtal, anh

5507-08 | do vuggy areas contain M xtal dol

5512-13 | off wh, micro, hard, porous dol w a lens of lt gr, micro, hard, dense anh

5517-18 | off wh, v f xtal, hard, porous, vuggy dol. Vuggy areas contain M xtal dol

5522-23 | do w small, sear. patches of wh-lt brn, M xtal, anh

5527-28 | do off wh-lt tan

5532-33 | lt tan, f xtal, hard, porous, vuggy dol w vuggy areas containing M-C xtal dol.  
Patches of clean, G xtal, anh anh

5538-39 | do but mostly micro except in vuggy areas

5543-44 | do

5548-49 | do

5553-54 | lt gr, v f xtal, hard, porous, v vuggy dol. Vugs small

5559-60 | off wh, micro, fairly hard, porous dol w many parallel, irregular lt brn, arg streaks

9242-43 | lt brn, v f xtal, hard, fairly tight dol w a few relict foss frags replaced by anh

9246-47 | buff, micro, fairly soft, porous, ch, foss ls w several blk micro stylolites. Some replacement of foss material by anh

9250-51 | lt gr, micro, porous, incl, ch, ls w/ v f anh xtal disseminated. Tr. foss

9253-54 | lt gr, micro, porous, hard ls w zones of foss material which also contains lenses of dk gr & reddish brn material.

9255-56 | lt gr, micro, porous, hard, foss ls w <sup>to thin</sup> irregular laminae of blk anh dol ls.

9256-57 | buff, micro, porous, hard, slightly ch, slightly foss ls w v f xtal, anh xtal disseminated

9260-61 | lt gr, micro, porous, fairly hard, arg ls

- 11,363.5-70 | Mqry, micro, fairly hard, dense, tight, arg ls w/ foss rare
- 11,370-76 | Mqry, dense, hard, tight, highly calc, blocky sh w/ slightly foss porous
- 11,387-94 | do no foss
- 11,394-02.5 | do
- 11,402.5-04.5 | blm qry, cryptg hard, tight, dense, slightly foss ls. Most foss material replaced by f-M xtal, wh anh
- 11,404.5-06.5 | lt qry, hard, tight, dense, highly calc sh w/ foss rare. Fr. pyr. Good conchoidal fracture
- 11,406.5-09.5 | buff, micro, hard, tight, dense v highly foss ls w/ thin, v irregular beds of dk gray, fissile, hard, slightly calc sh. Foss are v lg
- 11,409.5-10 | Interlensing of buff, micro, tight, dense, fairly hard foss ls & lt qry, hard, dense, highly calc, blocky, slightly foss sh
- 11,410-15 | buff, micro, fairly hard, dense, arg, foss ls w/ some replacement by wh, C-f xtal, anh
- 11,421-23 | buff, micro, hard, tight, dense, foss ls w/ lenses of lt qry, micro, hard, tight, dense, foss ls. Fr. lt qry ls. Most of foss material has been replaced by wh-bry, f-C xtal, anh.
- 11,423-25 | lt qry, micro, hard, tight, dense, slightly arg ls
- 11,425-29 | Mqry, hard, dense, blocky, highly calc sh w/ abund minute pyr grains disseminated
- 11,429-33.5 | do
- 11,433.5-36 | lt qry, micro, porous, fairly hard, arg dol
- 11,436-41 | lt qry - bluish qry, micro, hard, dense anh w/ stringers of dk qry, soft, micro v arg dol
- 11,441-44 | wh - lt qry, micro, hard - soft, dense anh w/ lenses of lt qry, micro, soft, porous, v arg dol
- 11,444-47 | ASC (11,436-41)
- 11,447-48.5 | buff & Mqry mottled, cryptg, dense, hard anh

11,448.5-51 | Mgty, micro, hard, tight, dense scty dol. The sd is clear Mgty, wR of?

11,451-56 | lt qtz, micro, hard, dense, pure anh

11,456-60.51 do

11,460.5-62 | lt qtz, micro, hard, dense anh w/ stringers of buff, porous, micro soft, v arg dol

11,462-64 | buff, micro, soft, porous, v arg dol w/ numerous blk specks of relict foss

MATERIAL

CMA-07-6

CHAR.

WCh-41S-21E-35  
W-3214  
Chiuh Shan Chen

P178

COMPANY : Gulf Oil Corp.  
WELL : Vanderbilt  
LOCATION : Sec 35, T41S, R21E  
ELEVATION : 21.45 DF  
DEPTH : 12,685'  
Completed : 3/9/54

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

REMARKS : No sample at 2290-2390', 2900-3060', etc. Electric Log available

CHEN 1963

0	690	MIOCENE AND YOUNGER
690	1050	OLIGOCENE
1050	1300	Ocala GROUP
1300	1940	AVON PARK LIMESTONE
1940	2450	LAKE CITY LIMESTONE
2450	3440	OLDSMAR LIMESTONE
3440	5460	CEDAR KEYS LIMESTONE
5460		UPPER CRETACEOUS (LAWSON LIMESTONE)
0	690 ?	Miocene and younger
690	1050	Highly fossiliferous LIMESTONE, biosparite, fragmental to pseudo-oolite, microcrystalline, rather porous, light brown to brown, forams (as Cosk. etc.) Mollusks, Bryozoa, etc.
1050	1080	Fossiliferous LIMESTONE, finely fragmental (co. 5mm) rather well cemented, light brown, large forams as Lepidocyclina, etc.
1080	1170	Highly fossiliferous LIMESTONE, finely fragmental (except the large forams), rather well cemented (Biosparite) and dense, large forams as Nummulites, Camerina, etc., common
1170	1210	DOLOMITE, fine crystalline, rather dense and pure, dark brown, sugary textured, few large foram molds

1210	1300	DOLOMITE, very fine to fine crystalline, sugary textured, rather dense, brown to dark brown, rather pure
1300	1420	Fossiliferous LIMESTONE, Biosparite, fragmental, rather well cemented, light brown, forams as Cock., etc.
1420	1570	As above, with forams as Cosk, Lituonella, etc., common but pseudo-oolitic, rather pure and microcrystalline
1570	1600	DOLOMITE, very fine to fine crystalline, rather dense, dark brown, underclay fragments
1600	1700	Fossiliferous LIMESTONE, fragmental, light brown, biosparite
1700	1770	DOLOMITE, med. crystalline, very dark brown, sugary textured, carbonaceous material
1770	1800	DOLOMITE, fine to medium crystalline, very dark brown to brown, -black, rather dense, carbonaceous material
1800	1940	As above
1940	2010	Fossiliferous LIMESTONE, fragmenta, light brown, well preserved forams rare
2010	2050	DOLOMITE, fine to medium crystalline, dark brown, rather dense, carbonaceous DOLOMITE and Peat fragments
2050	2070	Fossiliferous LIMESTONE, as above
2070	2075	DOLOMITE, fine crystalline, dark brown
2075	2080	Black Peat
2080	2095	DOLOMITE, as above, fine crystalline, few dolomitized forams as Dicty. Americanus (?)
2095	2110	Fossiliferous LIMESTONE, fragmental, well cemented, few scattered dolomite crystals
2110	2115	DOLOMITE, very fine crystalline, very dark brown
2115	2120	BLACK PEAT
2120	2135	DOLOMITE, as above
2135	2190	Highly fossiliferous LIMESTONE, microcrystalline, biosparite, light brown, forams (well preserved fossils rare).

2190	2215	DOLOMITE, fine crystalline, very dark brown, Black Peat fragments (Black Peat may form thin beds)
2215	2250	Fossiliferous LIMESTONE, fragmental, biosparite, light brown to brown, forams as Dicty. Americanus, etc.
2250	2260	DOLOMITE, fine crystalline, dark brown
2260	2280	Fossiliferous LIMESTONE, biosparite, fragmental to pseudo-oolite, rather well cemented (by clear calcite), forams
2280	2285	DOLOMITE, as above
2285	2305	Fossiliferous LIMESTONE, as above
2305	2370	DOLOMITE (20%) fossiliferous LIMESTONE
2370	2360	Fossiliferous LIMESTONE
2360	2385	DOLOMITE, fine to medium crystalline
2385	2405	Dolomitic (30%) fossiliferous LIMESTONE
2405	2450	DOLOMITE, fine crystalline, dark brown, few gypsum fragments
2450	2560	Fossiliferous LIMESTONE, fragmental to pseudo-oolitic, biosparite, very light brown, rather pure and clean, forams as Helicostegina(?) etc.
2560	2570	DOLOMITE, fine crystalline, dark brown
2570	2590	Fossiliferous LIMESTONE, as above
2590	2635	DOLOMITE, fine crystalline, dark brown to very dark brown, rather dense
2635	2660	Fossiliferous LIMESTONE, biosparite, fragmental but well cemented, very light brown, slightly dolomitic, few gypsum fragments and forams
2660	2700	DOLOMITE, fine crystalline, dark brown, rather dense with few gypsum streaks
2700	2830	DOLOMITE, fine crystalline, dark brown, rather dense
2830	3050	Fossiliferous LIMESTONE, fragmental to pseudo-oolite, biosparite, very light brown to light brown, forams

3050	3220	DOLOMITE, medium to coarse crystalline, brown to dark brown, good dolomite crystals and few white gypsum fragments
3220	3250	DOLOMITE, very fine to fine crystalline, dense, dark gray-brown to very dark brown
3250	3270	Gypsiferous (30%) DOLOMITE, very fine crystalline, pure white gypsum fragments rather common. Gypsum may form fine streaks and irregular bands within the Dolomite beds.
3270	3440	Gypsiferous (20%) DOLOMITE, as above, very fine crystalline
3440	3580	Calcitic (10%) DOLOMITE, microcrystalline, rather porous, light brown to gray brown, slightly gypsiferous and fossiliferous
3580	3625	Gypsiferous (10%) DOLOMITE, microcrystalline, rather porous, fossiliferous, light brown, fragmental to oolitic
3625	3960	DOLOMITE, microcrystalline, rather porous, slightly gypsiferous and calcitic, light brown
3960	3975	Gypsiferous (10%) DOLOMITE, microcrystalline to very fine crystalline
3975	4000	DOLOMITE, very fine crystalline, dark gray brown, rather dense
4000	4060	Gypsiferous (20%) DOLOMITE, microcrystalline, light gray brown,
4060	4090	DOLOMITE, microcrystalline, gray brown, slightly gypsiferous
4090	4135	ANHYDRITE, light gray
4135	4155	Gypsiferous (30%) DOLOMITE, microcrystalline, light gray brown
4155	4215	ANHYDRITE
4215	4230	Gypsiferous (10%) DOLOMITE, microcrystalline
4230	4250	Dolomitic (30%) ANHYDRITE
4250	4265	Gypsiferous (30%) DOLOMITE, microcrystalline
4265	4325	Gypsiferous (10%) fossiliferous DOLOMITE, microcrystalline
4325	4335	Gypsiferous (30%) DOLOMITE, as above
4335	4370	Gypsiferous (10%) fossiliferous DOLOMITE, microcrystalline, gray brown



4370	4380	Gypsiferous (30%) DOLOMITE, microcrystalline, fossiliferous
4380	4400	Gypsiferous (10%) fossiliferous DOLOMITE, as above
4400	4425	ANHYDRITE
4425	4460	Gypsiferous (30%) DOLOMITE, microcrystalline
4460	4480	ANHYDRITE
4480	4500	Gypsiferous (10%) DOLOMITE, microcrystalline
4500	4530	ANHYDRITE
4530	4555	Gypsiferous (10%) DOLOMITE, as above
4555	4575	ANHYDRITE
4575	4595	Gypsiferous (10%) DOLOMITE, as above
4595	4615	ANHYDRITE
4615	4630	Gypsiferous (10%) DOLOMITE, as above
4630	4660	ANHYDRITE
4660	4675	Gypsiferous (10%) DOLOMITE, as above
4675	4685	Dolomitic (30%) ANHYDRITE
4685	4700	Gypsiferous (10%) DOLOMITE, as above
4700	4755	ANHYDRITE
4755	4765	Gypsiferous (10%) DOLOMITE, as above
4765	4780	ANHYDRITE
4780	4810	Gypsiferous (30%) DOLOMITE, as above
4810	4840	ANHYDRITE
4840	4940	Gypsiferous (20%) fossiliferous DOLOMITE, light gray brown, forams as Borelis, etc.
4940	5060	Gypsiferous (10%) fossiliferous DOLOMITE, as above

5060	5230	Gypsiferous (30%) DOLOMITE, microcrystalline, light gray brown, fossiliferous
5230	5315	Gypsiferous (10%) DOLOMITE, microcrystalline, gray brown
5315	5390	Gypsiferous (30%) DOLOMITE, microcrystalline, gray brown,
5390	5460	Gypsiferous (10%) DOLOMITE, as above
5460	5490	DOLOMITE, fine crystalline, brown to dark brown, dense, slightly gypsiferous, rather pure and clean
5490	5605	DOLOMITE, very fine to fine crystalline, very light brown, pure and clean, slightly gypsiferous
5605	5630	DOLOMITE, as above
5630	5685	Chalky, fossiliferous LIMESTONE, forams as <i>Lepidodictoides</i> , etc.
5685	5790	DOLOMITE, fine crystalline, brown to dark brown, rather dense, pure and clean
5790	6080	Chalky, fossiliferous LIMESTONE
6080	6200	DOLOMITE, very fine to fine crystalline
6200		Chalky LIMESTONE

Taylor Peak: 6560(?)