6053365
G Mitchell

William K DAvis E Scott & Mead Tombet #1
Sterling, Ga Glynn, Co.

ABBREVIATIONS & DEFINITIONS

bk black
calc calcareous
dolo dolomite; dolomitic
f fine
Ls Limestone
Lt light
pam predominantly
phos phosphate

QTz - QUARTz
r - rare
rna - round
sbanq - subanq
xlline - crystalline
xl - crystal
biomicrite - Limestone composed of sana sized fossils cemented together w/ Lime mud
micrite - Lime mud or Lime mud rock

Interval	Lithology	Description
1090 - 1120 (same as TW 26)	dolomite sandstone	Lt gray & Lt tan xlline dolostone composed of v.f. sand or large silt sized rhombs of dolomite; unit is locally v. porous; other cuttings are more massive & less porous

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STERLING, GA
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interval	Lithology	Description
1260-70	dolomitic Limestone	Lt gray to med gray; ls is a biomicrite: v. granular and v. fossiliferous (forams; other fossils difficult to recognize); Lt tan to Lt gray dolomite rhombs occur in ls matrix (20-95% dolo. xls); some cuttings are more appropriately dolo. ss cuttings w/ minor granular ls between xls; the more completely dolomitized cuttings are porous; porosity reduces at 50% dolo. / 50% ls; the less dolomitized ls appears fairly porous; rexllization of the ls which is common reduces original porosity; other constituents of the sample include rna tolsbang clear qtz grains (≈10%); flakes of gray mica (≈2%); r. bk phos pebbles
more dolo. than TW 26		
1270-80 (TW 26 becomes as dolo)	do	do all stages of dolomitization represented (same as above)
1280-1290	do	do some cuttings of undolomitized ls are v. porous fossil hash with only minimal lime mud filling fossil interstices; many fossils have been coarsely rexllized to xls of calcite; porosity

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interval	Lithology	Description
		varies from cutting to cutting depending on degree of dolo. & rexllization
1290-1300	do	do sample has less % dolo. ss than above; majority of sample is porous, micritic, fossil hash; amount of micrite varies from cutting to cutting but pam is loosely packed so unit is porous; ls is only slightly rexllized & is sandy (qtz grains from above are probably broken out of ls) ≈30% of dolo. ls is dolo. ss.; pdm still occurs
1300-10	dolomitic limestone	similar to 1290-1300 Ls is still porous, micritic, fossil hash; appears to have small interclasts which stand out as darker color; the Ls is rexllized slightly but still maintains good porosity; dolo. xls occur in all cuttings: pdm only 10-20% dolo. xls; some cuttings are more completely rexllized; some are dolo. ss; mica occurs only rarely; qtz grains occur in broken out material
TW 26 more dolo.		
TW 26 w/ only a few fossils; mostly micrit	is a dolo. ls	

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interval	lithology	Description
1310-20	dolomitic limestone	same as above only more dolomitization cuttings are pdm 30-40 dolo. xls; some large cuttings of dolo. ss occur
1320-30	dO more dolo. than TW26 TW 26 is glauconitic	dO most cuttings are 50-90% dolo. xls
1330-40	dO	all stages dolomitization; otherwise, same as above; mica still occurs (≈5%); qtz still occurs (≈10%)
1340-50	dO v. similar to TW26	dO pdm v. dolo. Ls (50-90% xls)
1350-60	dO TW26 not as dolo	dO
1360-70	dO TW 26 becomes sparry	dO all stages of dolomitization; Ls contains glauconite; pdm v. dolomitic (50-90% xls) but some cuttings. maintain most of their original structure & compo; Ls is v. micritic
1370-80	no sample	

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interval	lithology	description
1380-1390	dolomitic limestone dolomite sandstone v. similar to TW26	sample is similiar to above but not as many intermediate stages ≈50% dolomite ss: rk made up of v.f. sand sized tan or gray dolomite xls; some minor granular ls may occur between xls and an occassional fossil ghost; only slightly porous. Dolo. ls is lt gray, v. fossiliferous, v. micritic, usually v. recrillized and only slightly porous; cuttings have pam 10-25% tan dolo. rhombs dispersed through matrix; mica still [illegible]
1390-1400	no sample	
1400-1410	dolomitic limestone – dolomite sandstone TW 26 not dolo.	all stages of dolomitization: lt gray, v. fossiliferous, v. micritic, fairly porous, slightly sandy limestone; this ls contains in its matrix 10-90% clear to tan dolomite rhombs; the 90% dolomite is equal to the dolomite ss.
1410-20	do TW 26 is sparry	do
1420-30	do	do
1430-40	no sample	
1440-50	" "	

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interval	Lithology	Description
1450-60	dolomitic limestone dolomite sandstone TW 26 not dolo but otherwise the same	similar to 1400-1410; Lt gray, v. fossiliferous, v. micritic, fairly porous Ls; the Ls contains from 10-90% dolo rhombs; some cuttings are >90% dolo. xls = dolo. ss
1460-70	dolomitic Limestone TW 26 = xlline ds	do but no dolo. ss; cuttings are pam 30-80% dolo. xls
1470-80	dolomitic Limestone dolomite sandstone TW 26 v. similar except not as dolo	gray & brown; brown cuttings are dolo. ss. w/minor amounts of granular ls between xls; all stages of dolomitization but sample is pam v. dolomitic; traces of glauconite occur in v. dolomitic cuttings as v. dk areas; ≈ 40% is v. dolomitic to dolo. ss. The other 30% is in various stages
1480-90	do	all stages of dolomitization represented ≈ equally; otherwise same as above;
1490-1500	do TW 26 = xlline ds	do
NO 1500-2000		

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interval	Lithology	Description
2000-10	dolomitic limestone TW 26 v. similar except no mica	cutting size is v. small (2-5mm) gray, fossiliferous, rexillized LS; unit was probably v. porous (might explain small cutting size) glauconite occurs occassionally; white dolo. rhombs occur in LS matrix or occur as masses of rhombs as individual cuttings; sandsize QTZ grains occur commonly ≈30% of sample is mica flakes (could be from drilling mud or from fracture filling of ls)
2010-2020	do	do
2020-2030	do	do 10% mica flakes
2030-2040	do	do Ls is also v. micritic and only fairly dolo; most cuttings are pdm Ls
2040-50	do TW 26 more dolo	do
2050-60	do	do
2060-70	do = TW 26	do most of sample is fossil frags

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interval	Lithology	Description
2070-80	dolomitic Limestone to Limestone similar to TW26 TW26 not sandy	similar to above; most cuttings are fossil frags; v. little dolomite appears to occur; cuttings are so small that identification is difficult.
2080-90	Limestone biomicrite	dO Ls is v. micritic & v. fossiliferous; dolomite occurs rarely as masses of xls broken out of Ls and sometimes as xls in the Ls matrix; micrite does not appear to be packed v. tightly so unit is porous
2090-2100	dO	dO Lots of glauconite & sand broken out in fines; sample is mostly small fossil frags; Ls is v. micritic but still porous; Ls appears fairly dirty; mica is abd.
2100-10	dO	dO
2110-2120	dO	dO
2120-30	dO	dO more glauconite & sand ≈ 5% glauconite; 15% v.f. LQT2 sand

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interval	Lithology	Description
2130-40	Limestone Sand & Silt TW 26 has no sand & silt	40% sand & silt; pdm QTZ 5% glauconite broken out in fines; 55% Ls in the form of fossil frags; no cuttings are large enough to make good identification Ls appears to be micritic; much granular Ls in sample mica still occurs
2140-2260	GUMBO clay & mud TW 26 no clay	
2260-70	Limestone Sand & silt TW 26 is d.o	V. similar to 2130-40; sample size V. small; 3% glauconite; 20% sand; Lots of granular Ls in sample; LS is V. fossiliferous, porous & dirty
2270-80	do	do
2280-90	do	do sand & glauconite reduced, sample is pam V. micritic, fossilif. Ls;
2290-2300	do	do only 2% glauconite; 10% sand

interval	Lithology	Description
2300-10	Limestone (biomicrite) TW 26 is dS	only 1% glauconite; 8% sand; Ls is lt gray, fossiliferous, micritic & porous; also sandy; mica still occurs
2310-20	dO	dO
4350-60	Limestone (micrite)	Dk gray, non-fossiliferous Lime mud rock; v. impure; much v.f. glauconite (silt-sized) dispersed in matrix; also Qtz silt common; some xls occur commonly but too small to identify (faces reflect in the light); unit has much pore space but pores are v. small - between grains of lime mud
	reacts strongly in 10% HCL	xls are mica; a few flakes large enough to identify; rk frags occur in matrix also
	dolomitic xlline Limestone	only ≈5% of sample; unit is med to dk brown, aphanitic xlline; non-porous; sometimes laminated. possibly dolo. but reacts v. strongly
	xlline Limestone	Lt gray; composed of v.f. xls of calcite, ≈10% glauconite & 5% silt; different from micrite; not GRANular

this LS appears to contain the same green mineral as seen below

interval	Lithology	Description
4360-70	Limestone & loose micrite	same as above: same dk gray dirty ~~glauconitic~~ micritic LS same Lt gray ~~glauconitic~~?, non-fossil. xlline, LS; same dolomitic, fossil. xlline LS (some cuttings have fossil ghosts: original LS = fossil hash) ≈5% of sample is loose micrite which occurs on surface of cuttings and alone
4370-80	do	same as above: the ~~glauc~~. non-fossil xlline LS now appears to be a calcareous siltstone composed of ang grains of QTZ, a green mineral (identified above as glauc. but now it is seen to be included in the QTZ giving QTZ green color) rare rectangular, translucent brown mineral, aggregates of pyrite & rare mica; rare sandsize grains of volcanic tuff?: greenish gray, v.f. xlline;
	calcareous siltstone (made up of igneous QTZ & other igneous minerals)	≈90% non-fossil, dirty micrite LS 5% dolo, fossil, xlline LS 3% calcareous siltstone 2% Lime mud

interval	Lithology	Description
4380-90	Limestone 80%	same dirty micrite Ls as above
	Xlline Limestone 10%	same fossil, dolo, xline Ls as above
	Lime mud 5%	(muddies up sample making description difficult)
	Calcareous siltstone	5% same as above
4390-4400	dO	dO
4400-10	Limestone 30%	same dirty micrite Ls as above
	xlline Ls 15%	Lt brown, aphanitic, sometimes fossiL.
	calcareous siltstone	composed of ang frags of clear QTZ, a green mineral which appears v.f. granular, mica, pyrite ; some of the QTZ appears greenish & occassionly so does the mica
4410-20	Limestone micrite	30% same as above; pyrite can be seen in the micrite also the green mineral; [appears the rk was formed of lime mud & silt composed of igneous weathering products]

interval	Lithology	Description
4410-20 (con'd)	Xline Limestone	5% same brown, dolo, LS as above
	calcareous siltstone	20% same as above
	sand 40%	composed of ang frags of clear QTZ, also rnded frags of clear QTZ; mica flakes; calcareous siltstone (as above) YK frags
	Lime mud	5%
4420-30	do	do
4430-40	do	do but more Lime mud (≈10%) obscures sample
4440-50	do	do
4450-60	do	do
4460-70	do	do but less lime mud; sample easier to observe
		80% calc. siltstone & sana (sana is composed of much green QTZ: probably sana is broken down calc. siltstone) much of the QTZ is

interval	Lithology	Description
4460-70	con'd	ang. & fractured; 20% Limestone micrite & xlline dolo. Limestone
4470-80	SAND reacts in acid & breaks down completely	composed of 90% QTZ: pdm ANG QTZ: clear, green, bk orangish pink; also calc. siltstone, xlline Ls, micrite, rare ~~volcanic rk frags~~?:
4480-90	SAND	30% sand size frags of micrite; 10% " " " " calc siltstone (green & white, w/ dk mica) rare rea rk frags c. 5% various frags? aggregates of pyrite 55% QTZ SAND: clear, green, yellow, orangish pink (stained?) (everything that appears volcanic reacts in acid)
4490-4500	clayey sand	same as above only more clay

interval	Lithology	Description
4500-06	Clayey sand & silt	same as above QTZ can BE SEEN TO include GReen mineral much of the QTZ especially the green QTZ is ang & appears fractured;