

Q Little Gr, Pfith

Houston O&M Singer

Wall Samples  
Keep

5-5-89

Quinton Little #1 Griffith

30-18N-6E Greene Co, Ark.

Note: Sand, f-c, polished = K (in samples below)

0-1253 Embayment Sequence K/T.

Good samples -

1253-1381 Dol, med-gg, <sup>to br-gg</sup> f-rhombic

<sup>1380</sup> 1270-~~81~~ <sup>free</sup> <sup>rd & fr</sup> f-ss <sup>c</sup>sd

may be from above

1380-1390 Similar - increase of  
well rd f-c sd - free

1390-1400 ss, free dol, wh,  
f-c gr - well rd

(still 5% K glauc, f-ss,  
etc.)

1400-10 Similar - Much (20%) K.

1410-1440 70% br-gg + med-gg  
f-rhombic dol, 20% <sup>polished</sup> ss  
10% slump

1440-1500 5% ss, 95 dol

1500-10 Unwashed

1510-20 ss, free dol, f-ss gr,  
tr ds smkn-blue ch

Griffith

1520-1610 Dol, br-gy f-rhombic;  
40% f-c rd sd-free

Some polished; R-glance & fiss

1611 Similar - 10% polished

C-gr sd-free - from above

1701 Dol, br-gy to med-gy f-rhomb; some r sd

1800 Similar

1900 Similar

2000 "

2100 Dol, med<sup>lt</sup> gy & br-gy (dark)

OPW 2130? f-rhomb; 2130-40 Dol med lt-gy f-rhomb-10% lt-gy & blue-gy ds ch

2200 Similar - to ol-ch - brown ools in wh chert matrix

2300 Dol med lt-gy to lt-br<sup>gy</sup> f-rhombic; to lt smoky gy

Insert ds ch; to wh f-gr med-gy orthoqtzite

2140-60 - Dol, f-sd; wh f-gr orthoqtzite to ds ch;

2160-70 Dol med lt-gy, f-rhombic; 70% sd

Some f-gr wh orthoqtzite; abundant polished m-uc rd free sd; ds smoky gy ch

2170-80 - Dol, med-lt-gy - f-rhombic;  
wh matrix w/ f-m br grains  
(rounded but not banded), & clasts  
to 1 mm; tr f-sd in  
wh matrix (ve polished K-s (grs))

2181-2200 Dol, med-lt-gy, f-rhombic;  
sl sdg - some all med-grs  
in dol; tr gy ds ch;

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2400 - Dol, med-lt-gy, f-m slg  
(rd) f<sub>1</sub><sup>c</sup> rhombic; wh f-m  
orthopyrite (c-grs in some  
orthopyrite)

2500<sup>30</sup> - Dol, med-gy to br-gy  
f-m sdg

2531-4 Dol, med-lt-gy, f-rhombic  
f-m sd & med w/s (br) in  
wh matrix

2601 - Dol, med-lt-gy, f-rhombic;  
10% sand - f-cgr - some K?  
f-gr wh orthopyrite; tr br to  
an ds ch.

# Griffith

2700 Dol, med lt gy to br-gy,  
f-r rhombic; wh <sup>gr</sup> forthugtzite;  
smky-gy ds ch; lt-gy ds ch;  
tr lt-gy f-sky & f-ol (br) ch;  
tr med sd grns (free)

2790 - 2800 Dol, med-lt-gy, f-r rhombic;  
5% lt-gy-ds ch;

2800 - 3200 NS (See @end)

3200 - 10 Dol, lt-br-gy, f-r rhombic;  
lt-smky-gy ds ch  
tr med as below

3210 - 20 SS, free drly, f-vc gr  
sub-rd; tr dol, & ch as above

3220 - 3300 Dol, br-gy, med rhombic?  
tr br ool sm wh matrix  
tr lt to med-gy ds ch; abundant  
c to v c polished <sup>free</sup> sd grs; tr & shells  
Tr dol rhombic chert in  
wh matrix

# Griffith

3300-3400 Similar - Med lt-gy &  
br-gy f-m rhombic dol;  
tr lt-gy ds ch; little  
if any sand,

3400 - Dol, med-gy to med lt-gy,  
m-rhombic; tr ~~med~~ gy ds ch

3500-10 Similar - f-m sdy in part

3560-70 " 10% lt-gy ds ch  
f-m sdy med lt-gy dol

3600 - Dol, med lt-gy to med-gy  
f<sup>to m</sup>-rhombic ~~ds~~; tr f-m  
sdy in part; lt-gy ds ch;  
tr med-sdy & <sup>clear</sup> sil<sup>clear</sup> chert  
to wh ch

3690-3700 Dol, med-lt-gy, f-rhombic;  
br<sup>med</sup> pools in wh matrix ch;

3700 - Similar

3730-40<sup>Dol</sup> Med-lt-gy, f-rhombic;  
Med-gy & lt-gy ds ch  
Dol ch = many varieties (wh,  
brown, multicolored) banded  
med ool



- 3740-50 similar - well devel  
ools
- 3750-60 similar; ools; f-sd;
- 3760-70 Dol, med-gy f-med Hgy  
f-rhombic; f-m sdg  
in part; 10% ool  
Ch = well developed
- 3770-80 similar - more sd,  
less ool ch
- 3780-90 similar - sdg dol;  
most of ch is ds  
blue-gy - no ools
- 3790-3800 Dol med-gy, f-rhombic;  
sl sdg; tr ds ch
- 3800- similar - fine f-cr & fr  
sd grs; gy ds ch
- 3900-10 Dol, med-gy, f-rhombic;  
gy ds & br ds ch  
tr br ool ch
- 3910-20 similar - 20% ch as above
- 3930-~~50~~ Dol, med-gy, f-rhombic  
5% Gy & fr ds ch - some  
ool; tr f-med sdg dol

Griffith

3950-60 Dol, med-gy, f-rhombic  
tr sd & ch

3960-70 Similar - 10% gy ds ch

3970 ~~4000~~ Polished-gy f-rhombic;  
clear f-gr orthogzite  
lt-br ds ch; <sup>tr</sup>f-m sd in  
dol; tr gy sd ch

sat  
4000 - Dol, med-gy to br-gy, f-rhombic;  
Chert; 5% lt-gy to lt-br-gy ds

4100 - Dol, med-lt-gy to med-gy, f-rhombic  
; rd & fr med sd, scattered  
Ch; 1% lt-gy spotty

4200 -<sup>10</sup>Dol, br-gy, f-rhombic  
Ch; 10% lt-gy, lt-br-gy, br-gy ds

4210-20 Similar -- little if any sand

4220-30 Sand, free drly, m-c gr  
polished - some dol & chert as above

4230-40 50% sand - m-c polished  
50% Dol lt-br-gy & med-lt-gy;  
f-rhombic; little if any ch;  
tr wh to clear rft. f orthogzite.



# Griffith

4240-50 Dol, br-gy to med-gy, f-rhombic;  
Ch; 5% lt-gy & br-gy ds;  
br f-med ools (not banded) in  
lt-gy matrix; m-c sd grs  
as above (polished); tr f-m  
sd in dol.

4250-60 Similar; 1% ch; dol is lighter,  
still tr f-m sd in dol

4260-90 Dol med-gy to br-gy, to med lt-gy,  
slsty <sup>(fmp)</sup> f-rhombic; Ch 1%; tr brooks;  
mostly lt-gy & lt-br-gy

4290-4300 Dol, med-lt-gy, f-rhombic;  
Ch; 2% br (non banded ools  
in lt-gray matrix); lt-gy  
& br-gy ds

4300-350 Dol, med-lt-gy, f<sup>(trace)</sup> <sub>milky wh</sub> rhombic)  
Ch; 2% lt-gy & lt-br-gy ds  
No sand except free m-c grs firm  
Tr br ools

Griffith -

4350-70 Dol, med-lt-gy, f-rhombic;  
Ch; 5% - mostly lt-gy-ds;  
~~some~~ banded br cols in milky wh ch  
& in lt-br ds dol

4370-90 Dol, med lt-gy, f-med rhomb  
some white, <sup>ch</sup> matrix around rhombs;  
tr lt-gy & lt-br-gy ds ch

4390-440v Dol, med-lt-gy & med-gy f-rhombic;  
Ch; 1% - mostly lt-br-gy

440v - Dol-med-lt-gy to med-gy  
f-rhombic (sucrose);  
Ch; 1% lt-gy, & lt-br-gy ds

4500 - Dol, <sup>dull</sup> lt-br-gy to med-gy,  
f-rhombic; Ch; 1% med-lt-gy, br-gy ds

4600 - Dol, dull med-gy, f-m rhombic;  
some wh matrix; to lt-gy ch;  
tr clear orthopyrite.

4700 - Dol, dull med-gy, <sup>to br-gy</sup> f-m rhombic;  
tr wh matrix; little if any ch or sil

- 4810 Dol, dull med-gy to br-gy, f-m rhombic;  
 little if any ch or sd
- 4860-70 Dol, dull med-lt-gy, vf-f rhombic;  
 Little if any ch or sd
- 4901 - Dol, med-lt-gy to br-gy f-med rhombic
- 5000 - Dol, med-lt-gy, <sup>to lt-gy</sup> f-med rhombic  
 Little or no ch or sd
- 5100 - Dol, dull br-gy, f-m rhombic  
 Still some C polished N sd
- 5200 - Similar
- 5270 - <sup>5300</sup> Dol, dull med-gy vf rhombic
- 5300 - Similar
- <sup>5300</sup>  
<sup>5330</sup> - <sup>5400</sup> Dol, dull med-lt-gy to  
 med-gy, vf ~~rhomb~~ <sup>f rhomb</sup>; <sup>Some granular</sup> <sup>crystic?</sup> Some  
 poorly developed ools (dolomitized)
- 5400 - Dol, dull med-lt-gy to med-gy,  
 vf-f <sup>med</sup> rhombic; tr dolomitized ools  
 & clasts & rhombs in vf rhomb matrix
- 5500-10 Dol, dull med-gy, vf-med rhombic  
 rhombs & f-m ools in vf rhombic  
 lighter matrix = limy

5520-40 Dol, med-gy to med-lt-gy,  
vf to f rhombic; lighter  
pieces = limy matrix w/  
vf - ~~ref~~ dol rhombs, ools?  
and organic debris?; may be  
50% CaCO<sub>3</sub> (more in some parts)

5540-50 Dolomite, <sup>-70%</sup> ls mixed  
Dull med-gy to med-lt-gy,  
vf rhombic to vf xlln - some ls matrix  
some ls  
some dolomite  
to lt-gy, vf rhombic;  
to f  
5530-90 <sup>dol</sup> ~~ls~~, med lt-gy, ~~f~~ <sup>to lt-gy, vf rhombic;</sup>

(looks like ls, but no in acid)  
Some med-gy, some lt-br gy.

5590-5630 Dol, lt-br-gy to med-gy, f-rhombic  
finely mottled after acid, but no lime

5630-40 Dol, ~~med-dk-gy~~ to med-lt-gy to med-gy,  
vf rhombic; in part, banded;

10% dk-gy if xlln ls

5% dk-gy shaley ls & sh

5640-60 Ls, med-lt-gy, to med-gy, dolie  
vf xlln; sl ool? = elastic;  
Res: little - - tr br flakes

Griffith

5660-5700 Dol, <sup>50%</sup> med-lt-gy to med-gy -  
vf rhombic; may be interbedded  
dirty ls & dol; fine-grained  
to poorly developed ools in part;  
fr br silt (flaking) residue

5700- Ls (<sup>50%</sup> dol) med lt-gy to  
med-gy; <sup>finely = vf ools in part?</sup> mottled; vf-f  
dol rhombs in ls matrix  
of some pieces

5750-5770 Ls, med-lt-gy to med-gy,  
vf xlln; <sup>in part</sup> vf dol rhombs in  
ls matrix;

5770-5800 Mixture <sup>20%</sup> ls dolitic ls &  
<sup>50%</sup> dol - med-gy to br-gy  
sl ool in part

5800-10 <sup>50%</sup> Dol, lt-gy (cream), ~~vf~~ rhombic  
<sup>50%</sup> Dol, med-gy, limy, vf rhombic

5810-30 Dol. white (cream) f-~~rhombic~~ rhombic

5830-70 Similar (80%)

& br-gy sl dolitic to dolitic, f-xllnls;  
some<sup>f</sup> ools; ls decreases downward

Griffith

5870-80 = Last Sample = TD = 5881

Dol, white (creamy) 60%, v f to

med rhombic;

Limy dol, med-gy 40%, v f to

f rhombic;

tr blue-green clay.

TD: 5881 in DDD.

2800-3200 in another box

Griffith

2800 - Dol, lt-br-gy, v f rhombic

10% or less lt-gy & white dsch

2900 - Similar

3000 - Dol, lt-br-gy v f to f rhombic

finely xln mottled; 10%

lt-gy & lt-br-gy dsch

3100 Similar - tr non-banded

br<sup>f-m</sup>ools in lighter chert matrix

little if any sand.



Houston Oil & Mineral #1 Singer  
36-9N-4E Cross Co, Ark

2975

Pz

2950-60 N?

Samples to 2950 = No Pz

2960-70 contains med-gy

Pz ls & dol

2970-80 Ls, med-gy to med dk-gy  
vf xlln

2990-3000 Similar

3000-3100 NS

3100 - Ls, med-gy to med-dk-gy, vf xlln  
dolitic & clayey or silty

3200 Similar - v dolitic

Res: br-gy siliceous silt

3300 Similar - initial reaction = <sup>agg</sup>

fast - later = dolitic

- Res: br-gy sil silt agg

3400 - Similar

3500 Dol, dull med-gy, vf rhombic

3600 - Similar but more limy

Singer

3700 Similar - lamy

3800 Similar

3900 - Similar - mostly ls

4000 - Similar - med-gy v f x lln to  
ds ls; no res.

4100 Similar - sl lighter

4200 Similar but more dol. c  
Res agg

4300 Ls, med-gy to med dk-gy  
v f x lln to ds

4400 Similar - lt-br lacey  
silt or clay res

4500 Ls, med-gy, - little res  
some lt-gy aggregate = silt?

4600 Similar - more pelletal or clastic  
lt-br sil silt agg

Singer

4700 - more d<sup>h</sup>ic

Br sil silt agg

4800 Limy

tr Disaggregated wh silt

4900 Limy

Much br sil silt agg

5000- Limy  
Pelletal mottled

Much dragg sil silt

5100 Limy

Br dis agg sil silt

5200 Limy

Br dragg sil silt

5300 Limy = Silty LS

str b<sup>dr</sup>agg

5400 Limy

Silty LS

str b<sup>dr</sup>agg

5500 Limy

Silty LS

tr lt-br transl dsch; tr br<sup>dr</sup>agg

5600

1% lt-br & dk-br dsch;

5700

Singer

5700 LS

Tr nes

Tr br ds ch

5800 LS

Tr nes

" " " "

5900 LS - dolomite

Tr nes

" " " "

6000 LS

6100 Tr nes

" " " "

6100 Med-gy - firrhembic  
dol - fobr-gy

Tr nes

" " " "

6200 Med-gy - firrhembic  
dol - br-gy

Tr nes

" " " "

6300

Dol, as above

sl tr br trans ch

6700 Dol

Tr nd of frsd in dol 1% 1 tr & dr br ds ch

6500 Dol - limy

tr nd of frsd in dol 2%

6600 Dol, 1 tr br f-nsly firrhembic, ch a. a.  
limy Pelletal to sl cool

6700 Dol, 1 tr br (enorm) sl seg, firrhembic, ch a. a.  
sl limy much lighter

6800 Dol - sl limy Darker med-gy, firrhembic

ch a. a.

Singer

6900 Dol med-gy, f-rhombic

tr lt-gy, lt br ds ch

7000 Dol br-gy, f-rhombic

5% lt-br<sup>g</sup> br ds ch

UR  
7100 Dol, lt-br-gy to med-gy, f-rhomb

7100-8000 - Res; brown sil silt or clay  
disaggregated tr lt-br ds ch

7200 Dol, as above

Tr f-m sd (<sup>many grains</sup> in piece); no ch

7300 Dol as above; pelletal?

Tr f-m sd (in several pieces); no ch

7400 Dol, lighter f-rhomb

no sd - no ch

7500 Mixture light & dark f-rhombic dol

no sd or ch

7600 mostly darker = f-toned rhomb

pelletal or dolitic ools No sd; no ch

7700 As above - mostly med-gy f-rhomb

Some dolitic ools

No sd or ch

7800 Dol lt-br-gy to med-gy, f rhomb

with mottling

7900 Dol cream to br-gy, f-rhombic

mottled

8000 Dol cream f-med rhombic

5-7-89 - 9:19

8100 Dol, med-lt-gy, f-m rhombic.

Xll mottled; acid reaction v. slow

8200 Similar - <sup>some med-gy</sup> f-rhombic

8300 Dol, med-gy, xll mottled, f-m rhombic  
v slow acid action

8400 Similar

8500 Limy Dol, med-lt-gy to med-gy, limy,  
Tr Ig? v f to med xlls; some dk-gy clayey

8600 Similar - Darker clayey pieces and  
f-Dolomite xlls in etched residue  
limy - No ch - no sd, no Ig

8700 Ls, med-gy, v f-gran, dotic, clayey.  
Res - disagg-light  
br clay or silt no dol xlls in etched residue

8800 Ls, med-gy to dk-gy (clayey) v f xlls  
Med amt  
Res: little - br clay or silt disagg

8900 Ls, med-lt-gy to med-gy, v f xlls  
Res as above - lighter color

9000 Ls, med-lt-gy to med-gy, <sup>br-gy under H2O</sup> v f xlls  
Tr Ig? ~~Res~~ Res: dk-gy clay film



Singer 20:00

9100 Ls, med-lt-gy <sup>to med-gy</sup>, vF xlln

9200 Similar

9300 Ls, med-lt-gy to med-gy, vF xlln;  
dk-gy clayey in part

9400 Similar; F-dolic in part

9500 Ls, med-lt-gy to dk-gy, clayey (in part)

vF xlln; 50% <sup>vF rhombic dol</sup> ~~F~~ rhombic dol  
Res of dk-gy clay aggregate from  
dark zones.

9600 Ls, as above  
Tiny ools in 2 piece

dolomitic (30%)

9700 Ls, med-gy, vF-f xlln;  
dk-gy clayey coloring

9800 Dolomite, med-lt-gy, to med-gy, linc, vF rhombic

9900 Dol, med-lt-gy to br-gy, linc, vF rhombic;  
Some clayey layers.

10,000 Dol, dull med-lt to med-gy, sl linc,  
vF rhombic

All = tr lt-br flaky res

Singer: 10:55

10,100 Dol, dull med-lt-gy to med-gy, limy, v rhomb

10,200 Similar sl more clayey

10,300 Dol, med-lt-gy to med-gy  
limy, v f-f rhombic; mottled; clayey

10,400 Similar; some pieces v limy

10,500 <sup>Ls</sup> ~~Dol~~ dull med-lt-gy to med-gy, v <sup>dark</sup> limy;

v f rhombic; initial reaction fast;  
v f dol rhombs (40%) in ls

10,600 Similar - ~~v detrital~~ <sup>shy of f-xls in ls silty sh</sup>  
Mike Allison: ool packstone - Crin & trilobite

some dk-gy clay, = more clay little dol  
Clay egg res in some pieces Detrital Feld

10,700 Ls (?) 60%, med-gy to dk-gy, v clayey  
and silty, v f xls; Res; 40%+ dk-gy clay &  
lighter silty silt

10,800 Similar Similar to 10,600 - Foss bas  
detrital Feld  
Probably at least 50% clay

10,900 Sh, med-dk-gy, limy;  
dk-gy clay aggregate res

11,000 Sh, med-dk-gy, limy; ~~many~~  
some ls, but probably from above

11,100 <sup>- Tr in 11,090-11,100</sup> Ig, all mottled med-lt-gy & med-gy,  
v f xls - v limy; Res; Eubedral & subeubedral xls  
& sh as above (mostly 'dark')

Singer

21, 120-30

Sh, dk-gy, lossy

21 140-30

Shale, dk-gy, v lossy -  
may be ls in part.

11, 150-60

Similar

TD Bottomed close to  
E lammite = detrital Fall.

Baber, Quin  
Beck, Bobby  
Bush, Bill  
Caplan, Bill  
Clardy, Ben  
Colton, Bill  
Curd, Sheila  
Di Blasi, Lisa  
Early, Helen  
Finch, Mary  
Goodson, Sharon  
Haley, Boyd  
Holt, Larry  
Howard, Mike  
Hunter, Adrian  
Korer Lynn

Long, J.T.  
Mayfield, Walter  
McFarland, John David  
Prion, Bill  
Rowland, Everett  
Sprout, Oleta  
Stephenson, Jack  
Stone, Charles G  
Tyler, Kay  
Wehmer, Ann  
White, Bernetta  
Whiteside, Joel  
Williams, Evelyn  
Williams, Norman F.  
Woodward, Mac.  
Young, Susan