

1. #71 Jones - Norris 17-12N-4W Independence Co (310-670)
3400 - 6002
2. #95 Magnolia - Stargis 30-9N-3W Woodruff Co
3. #77 Deardort - Duggett 31-10N-3W Jackson Co

Book 5

Well Samples
Keep

Ark Geol Comm No. 71 (Newark quad)

R. L. Jones #1 G C Norris

Independence County, Ark.

NWSE 17-12N-4W

TD: 670 ±

No E-log

0-340 No samples

340-50 Sh, dk-gy, v f mic, ^{silty} limy;
not fissile

350-60 Similar

360-70 Similar

370-80 No sample

380-90 Sh, dk-gy, v f mic, silty, limy;
sl fissile

390-400 Similar - & trash from above =
~~at~~ chert pebbles

400-410 Much as above but v limy -
may be silty ls in part

410-20 Sh, dk-gy, f-mic, silty, limy;
only sl fissile

420-30 Similar

71

- 430-40 sh, dk-gy, f-mic, silty, v limy;
not fissile
- ~~440~~-50 Similar
- 450-60 Similar
- 460-70 "
- 470-80 "
- 480-90 "
- 490-500 " - No chert
- $\frac{Mm}{mbn}$ 500
- 500-510 Chert, dull lt br gy to med lt gy
v sl limy, translucent,
clayey; ^{br} clay or silt grains in
suspension throughout the chert
No seen in samples that are in water.
Some shale as above - slump
- 510-20 Chert as above, sl more limy;
some lt-br trans, ds ch
10% ls, med lt-gy to med-gy, silty, sil,
f-glauc f-gran; heavy silt & sil res
much sh as above - - probably slump

520-30

sl lining
chert, smoky-^{sl lining}gy ds; in water,
sub translucent and sl silty or clayey,
tr ls, med lt gy to lt br gy, sl glauc,
sl pyritic, rf grau; Res: trace
of silt from some pieces, much
silt from others

530-40

60%
chert, ~~med~~ lt gy to smoky-^{30%}gy ds,
sl lining; ls, med-^{Res: lt-^{on ly}gy}lt-^{30%}gy to
med-^{10%}gy f-grau; sil silt aggregate
Shale med-^{on ly}gy, clayey, sl lining
if at all; tr pyrite

540-50

95%
Ch, wh to lt-^{lt.}gy, sl lining, dense
3% Lg, dall, br-^{lt.}gy, sil, rf grau;
Res - lt-^{lt.}gy sil silt agg.

550-60

30%
Lg, lt-br ^{impart}gy, sil & silty
some of ls leaves little or no res.
f-grau to rf xll; grades into
20% Ch, lt-br gy, sl lining, sl silty,
sub-transl, ds;
30% shale, med-^{30%}gy to gr-^{30%}gy, glauc, pyritic,
v sl lining, sl silty, tr rf-f nodules in a few
pieces along with glauc & pyrite

560-570 40% ss above

Mbn 565
MDC
60% sh, dk-gy to dk-br gy,
"greasy", fissile

MT

570-80 sh ss above - 10%

MDC 575
DP
Chert, ^{40%} it smoky gy to lt-blue-gy
sl limy, dense, ^fpyrite,
but no other obvious inclusions
except calcite;

Limestone ^{50%}, dull br gy, ^{green} f. ~~sh~~
grades into chert

580-90 ^{60%} Chert, ^{limy} dull br-gy to lt-blue-gy,
granular (limy) to dense

40% ^{dal} ~~ss~~, dull lt-br-gy, sil,
silt, ^{limy} f-gran; pyrite
heavy sil silt agg res. from dal

590-600 Chert ^{60%} lt-blue-gy to dull br-gy
dolice, dense; ^{40%} Dal, dull-br-gy
sil, ^{heavy} r f rhombic; sil silt agg
res.

600-10 Abrupt change in samples - only
a ^{sl} trace of the chert & dol above

Dol, med-lt-agg, v glauc, f-gran;

Res: lt-agg sil silt agg
10% of sample is lt-agg

Dol 60%

Ls

to lt pinkish ^{sl dolie} f-m xlls Ls;

some pink xlls.

610-20. Ls, ~~med~~ lt-agg to lt br-agg,
pyritic, sl silt, ^{dolie} f-med xlls;
Some pink xlls; in acid,
many f-rhombs of dol etch out
and continue to work after ls is
dissolved; crin(?) ost(?)

620-30 Ls, med lt-agg to lt pinkish-agg, dolie,
f-gran to med xlls; pink xlls;
crin?; in finer-xlla pieces, heavy
residue of sil silt, free f-agg,
pink xlls or "spots" even in
f-gran ls.

71

630-40 Ls, pinkish-gray, f-c xlls, pyrite;
pink xlls = crin (?); no dol &
very little res except pyrite
& trace of glauc?

640-50 Ls, lt-gray to pinkish-gray, glauc,
very little res
vf - f-xlls; tr lt-gray glauc
pyritic v f sds, v silty ls w/
heavy res.

650-60 Ls, lt-gray to pinkish-gray
cherty, rf to f xlls; res
wh siliceous aggregate - highly
porous when lime is leached out
Chert; ^{25%} wh sl lying to
limy, cloudy = "f-polluted", probably
from enclosed calcite; clear qtz
druse on some pieces of ch

~~660-70~~

71

660-70 ls, med ltgy to pinkish-gy
sl sil^{v glauc}, v f to f xlln, ^{ch in some pieces,} ^{outmost}
pieces of ls leave no residue
trace of pink xlls = erin?
Charl; 30% wh to lt-gy sl
ling; gtgose on some edges.

660-? (Last sample)

Similar to above; sil res
from some pieces of ls, none from other.

TD - Not definite -- probably 670

Ark Geol Comm No - 95 (1954 well)
Magnolia Petroleum Company

Ray Sturgis #1

SW SW SW 30-9N-3W

217' DF

0-15 NS

15-20 Sand, rP - m gr, sub-ang to
sub rd; sl frosted

20-30 Similar

30-40 Similar, but rP - f gr

40-60 Similar - f-gr

60-80 Similar - f-med gr

80-100 Sand, med-vc gr; some
grains of gtz & cl; grains
on sub-rd to rd & frosted
to polished

100-120 NS

120-130 Sand, f-m-vc; grains to small
pebbles of chert & gtz

130-140 Similar; more granules

140-150 Similar - 50% grains &
pebbles - some gr-gy igneous?
rock.

95

150 - 160 Sand, f to vc - 10% grains
to small pebbles

160 - 20 Similar

170 - 80 Ns

180 - 90 Mostly f gravel but
some clay, lt-olive-gy,
v f mic.

190 - 200 Similar

200 - 70 Clay, lt-olive-gy; swells
sl in water; non-limy

210 - 20 Similar

220 - 30 Similar

230 - 300 10' samples - all much as above

300 - 900 Clay, lt-olive-gy, v f mic;
non-limy -

10' samples

400 - 460 10' samples

Clay, olive-gy, lt mic

460 - 70 Similar - - contains weathered
red-br f-med gr ss -
probably a crushed pebble from
above - -

470-80 Clay, lt olive-gy, v fine, non limy; still sand & gravel from above

480-85 Similar -- may be sl limy

485-486 Trace med lt gy v f - f gr sil ss.

486-487 Similar

487-90 ss, med lt gy, v f - f gr;

490-93

493-96

496-99

499-502

502-505

505-508

} Similar to above --
much slump from above

Casing Set

3' samples ↓

508-550 ss, med lt gy, silty; sil,

tight, v f - f gr; bright =
vll faces; tr med-grs, but
not obvious in water, ^{thin} pieces
become sub-translucent; some
silt $\frac{1}{2}$ inclusions, but mostly gt 3.

Does not look
like PG -
looks like CH

95

Med-gy - med d Kgr

550-65 Shaley & silty ^{mic} vf-fgr ss
to siltstone - probably should
be logged as clay & silts.

565-70 ss, med-lt-gy silty, sil, vf-fgr;
tr plant fragments; may be a
tr of med ggs, but v rare; bright-
~~tr~~ gtz xlls attached to one piece.

~~570-~~

570-600 Mostly ^{stly- or n} vf-gv ss above - xlls
gtz in fractures; some
med-dk-gy silty sh;

600-3400 - See completed log, not
re-examined

3400-3500 OK as logged

3500-3550

3550-80 DK-gy sh & ^{med} dk-gy limy
siltstone - no ch in sample

3580-85 As above + some med-dk-gy
sil sh to ch

3585-90 20% of sample is ch as
described on log

- 3520 - 3600 Lt-gy chert as logged
- 3600 - 65 BIR sil sh to ch, probably
more silty & shaley than
logged, ^{but much sil sh to ch.} - Probably Chutte
- 2665 - 70 First appearance of SS
- 3670 - 3682 SS as described - - dead oil?
or dk-gy clay^(?) in sil
matrix of upper part; lower
part limy & drills free in
part
No core available
- 3682 - 3700 ls, med lt gy, rf-grass to ds
Some med lt gy dolic, silty ls
or limy dol
- 3700 - 3703 ls, med lt gy, st pelletal,
in part f-m sd, & clastic,
rf grass.
- 3703 - 3706 As above but much more
sandy - some m-c gr limy ss

3706 - 3715 Ls med lt gy, v sandy

f-gran; mangf-m sd grs
in ~~thin~~^{dolitic}, & pyritic lime
matrix; some c-vc grs

3715 - 3730 Ls med lt gy to lt ~~br~~^{gr} gy

^{pelletal} vf-gran to ds; silty in
part - lt gy sil silt or
clay res. ; ~~still~~ some
sdys in sample - probably
~~from above~~ representative
f-c sd grs;

Apparently this is a clastic
sdys ls interval

3730 - 36

ss, med lt gy, v dolitic, f-gr

3736 - 35

Ls, med lt gy, dolitic to v dolitic
clastic f-m sd, f-gran
rd & fr grs; Res: siltsilt egg & fruct sd

3755 - 85

Dol, med lt gy, sl lime,
f-med sdys ^{rhombic} rd & fr grs

3785 - 3840

Dol, med lt gy, sl lime, ^{res} v rhombic
scattered f-m sd (⁵⁻¹⁰ ~~10-20~~ % ^{off total} sand),
abundant in some pieces. Res f-c sd
i ^{Res} much siltsilt egg

- 3840-60 Ls, lt olive-gy, pelletal, vF gran
 to ds; trace of silt or poorly
 developed Fgtz xlls; vF pyrite
 the sandy dol in these samples
 is considered to be from above.
- 3840-70 Ls as above F⁶ f-med sd grs
 scattered in some pieces.
- 3870-20 Ls, lt olive-gy, pelletal, f-pyritic,
 vF gran to ds; little sand,
~~perhaps~~ ^{f-med} few scattered granics?
- 3880-3900 Dol, med-lt-gy, ~~similar~~, f-med sdgy,
 vF rhombic
- 3900-10 Dol, med-lt-gy, f-med sdgy,
 f-med rhombic, wh xllr dol
- 3910-20 Dol, med-lt-gy vF f rhombic,
 only a trace of f-med sd
- 3920-30 Similar, but more sand
- 3930-3940 Dol, med-lt-gy, ^{10-15% sand} sandy, vF f rhombic
 trace dolitic f-med ss; rd f granics;
 much wh 2-xllr dol;
 30-40% sand

- 3940 - 50 Dol, med lt gy, slsdy to sdy
vf rhombic; ^{tr med} rd & fr f-med sdy
- 3950 - 60 Dol, med lt gy slsdy to sdy,
vf - rhombic; f-med rd & fr sdy
- 3960 - 70 As above, ~~little~~ ^{0.25% trace of} sd
- 3970 - 90 Dol, med lt gy to lt olive gy
vf - rhombic
- 3990 - 95 As above, trace f-med sd
scattered in a few pieces
- 3995 - 4005 Dol, med lt gy, sandy ^{tr v sdy} (f-med)
vf rhombic; tr dolc, siliceous f-med gss
- 4005 - 4020 Dol, med lt gy, v sdy,
vf rhombic; 40% f-med
rd & fr sd, tr c sd
- 4020 - 30 Dol, med lt gy, slsdy to sdy
vf rhombic - 5-10% sd
- 4030 - 40 Lg lt olive - gy sl silty,
vf gran to ds
- 4040 - 4100 Dol, med lt gy, vf rhombic
becomes sl limy to limy
in the lower 30' of the interval.

4100 - 4130 Dol, med lt-gy, v f rhombic;
layers of lt olive-gy dolc,
v f gran to ds ls

4130 - 4150 Ls, lt olive-gy, dolc,
v f gran; many v f rhombs
of dol in ls; some ls very sd.

4150 - 60 Ls, ^{lt br-gy to} med-gy, v f gran to ds

4160 - 70 Dol, med lt gy, v f rhombic

4170 - 4245 Ls, br-gy to med-gy, clayey,
sl dolc, v f gran to ds;
some layers are v dolomitic
- - v f rhombs

4245 - 55 Dol, med lt gy, v f rhombic

4255 - 4275 Ls, br-gy to med-gy sl dolc
to dolc v f gran

4275 - 90 Ls br-gy to med-gy, dolc
pyritic, v f gran to ds

4290-4400 ls, lt br-gy, pelletal,
 elastic, dolic, vf-gran to
 ds; 20% dol rhombs in ls
 to, locally, some limy vf rhombic
 dol; locally well developed
 limestone "grains" or clasts.

4400-4440 ls, lt br-gy, v dolic,
 f-gran to ~~f-ds~~ ds; some
 f-rhombs of dol in most
 pieces, some limy dol

4470-50 Dol, med lt gy, vf rhombic,
 sucrose;

4450-70 ls, lt br-gy to lt olive-gy
 dolic, sl cherty, v f-gran
 to ds; ^{25%} wh ds chert, some
 attached to limestone; ~~f-rhombs of~~ dol is

many pieces, some limy dol,

4470-4500 ls, lt br gy to olive-gy, v dolic,
^{pyrite}
~~vf-gran~~ elastic, vf gran to ds;
 many rounded "grains" of ls in
 most pieces; f-rhombic dol in
 most, some limy dol; pyrite

4500-4600 Ls, lt-br-~~gy~~ to lt olive-~~gy~~
sl dolic to v dolic, sl clastic,
sl pelletal, v f gran to ds;
tr rd & fr med sd (4515-20);
tr pyrite

4600-30 Ls, lt-br-~~gy~~ to lt olive-~~gy~~, clastic,
pelletal to ^{med} colitoid, sl sandy, ~~stubby~~,
v f gran to ds; scattered
f-med sd, tr c; little if any
dol in this clastic ls. Much Xln wh
calcite 4620-30

4630-4700 Dol, med lt-~~gy~~, limy,
f-med ^{tr c} sds, v f-rhombic;
This is clastic sandy f-med
colitoid limestone that has
been dolomitized to 4650% level.
Xln wh calcite 4651-55

4700-~~4800~~ ⁴⁸⁰⁰ Mixture of ls & dol.
Ls, lt-br-~~gy~~ sl dolic to dolic, clastic,
~~colitoid~~ ^{pelletal}, f-med sds - tr c grs
Dol, med lt-~~gy~~, sl limy to limy
sl sandy to sandy (f-med grs) v f-rhombic.
tr pyrite. Res. Heavy residue of lt-~~gy~~ gtz silt
aggregate suggests less dol & less mica

4800 - 50 Ls, med lt-gy, lt-br-gy & br-gy,
 clastic, f-mud sdy (trc) calcitoid,
 f-gran tds, most of ls
 only v sl if at all dolc; some
 lining dol ~~ls~~ w/ heavy sil silt ^{agg} res.
 reaction is fast at first and prolonged
 sd is s-attenuated = 5%

4850-4900 Similar to above, but only
 scattered f-mud sd & sl more
 evidence of f-rhombic dol
 in ls

No sample 4905-15
 4900-5000 Mixture, Ls, lt br-gy to
 br-gy, clastic, f-mud sdy (trc)
 vt gran tds; trace dol rhombic
~~some~~ some lenses of ^{lt-gy f-rhombic dol} ~~sgtzt~~ silt
 And, med, lt-gy, vs silts, ~~st~~
 tiny dolc f-rhombic dol; scattered f-c
 sd gys; heavy lt-gy sil
 silt agg res - not much ags
 after reaction stops - most of
 rock is dol

95

No samples 5070 - 84

5000 - 5100

Dol, med H gg, limy, f-med sdy
(tr c), rF - med rhombic; sand
is scattered through most of
unit; lime is closely associated
with the dol, some in the dol &
some in layers ^{or lenses} attached to dol.

~~5100 - 5200 No sample 5110 - 19~~

Dol, med H-gg to H-br-gg, sl limy
sandy, rF - f rhombic; scattered
f-c rd & fr sd; decreases
sl in lower 50' where many pieces
contain no sand; pyrite

5200 - 30 Dol, H-br-gg to med-gg, vt to
m rhombic ^{tr rhombic} wh c-xlls dol
tr (scattered) f-us sd ggs

5230 - 40 Dol, H-br-gg rF to med rhombic
little if any sand

5240 - 50 Dol as above; trace f-us sd;
pyrite

5250-5290 Dol, dull lt-br-gy to med-gy
vf to med-rhombic; scattered
f-med rd & fr sd in a few pieces
pyrite

5290-5305 Dol, dull med lt-gy to med-gy
^{marcasite (f-xlls)}
v pyritic, clayey?, vf gran;
E-log makes major swing, but
reason (other than ^(marcasite) pyrite) is not
obvious; res: clusters of vt rlls
pyrite or marcasite -- no
cubes seen.

5305-5350 Dol, lt-br-gy, vf-f-f
rhombic; scattered f to med sd grs
^{much (marcasite?)}
~~some~~ pyrite, but less than above

5350-75 Dol, dull med lt-gy to lt-br-gy,
vf-~~f~~ ^{med} rhombic; little if
any sand; still vt-~~lt~~ xlls & masses
of pyrite? (poorly developed to no cubes)
in many pieces

5375-5400 As above & trace f-med sd
some wt c-xlls dol

5400-10 Dol, med lt gy to lt br gy
vf - to med - rhombic; pyrite
f - med sd ^{grs} in a few pieces that
may be from above

5410-25 Dol, dull med-lt gy to lt, br-gy
vf to med rhombic; pyrite;
^(some)
scattered f - med sd grs in
several pieces; tr red-br dol

5425-35 Dol, med lt gy to lt br-gy
f - med sdg (tr c) - f - rhombic;
vf pyrite in many pieces;
w/ xlla dol; tr f - med sd
in clear gtz

5435 - 45 Dol, med-lt-gy, vf - rhombic;
scattered f - sd in some pieces

5445-546 Dol, med lt-gy to lt br-gy
sl sdg, f - med rhombic;
scattered f - to med sd

5466 - 69 Dol, med lt-gy, sl f-med sdgy,
vf rhombic

5469 - 80 Dol, med lt-gy to lt-br-gy
vf - med rhombic; scattered
f-med sd; pyrite; Pos; S-med
sd & moderate amount of lt-gy
sil silt aggs to fine

5480 - 85 Dol, med lt-gy to med-gy,
f-med sdgy, vf to med rhombic,
tr pyrite

5485 - 90 No sample

5490 - 95 Dol as above

5500 - 30 Dol, med lt-gy to lt olive-gy,
to med-gy sl sdgy, vf - med rhombic; scattered
^{tr} some c
f-to med sd - quite a lot in
some pieces, none in most;
tr pyrite; in coarser rock,
rhombs not well developed; all
faces show m-c xls but no
voids = limestone texture or
"smeared" xls

5530 - 5540 Dol, med-lt-gy to lt-olive-gy,
 x-lt-gy; ~~rhombic~~; rhombs

chert
 grains

are not well developed -- no
 x-lt-gy porosity but trace of
 small vugs; scattered f-mud
 rd & fr sd. ^{tr} Tr pyrite
 In one piece, small chert grain
 (120 min circ @ 5537 $\frac{1}{2}$)

5540 - 5550 Dol, ^{f-mud lt-gy} lt-olive-gy, f to c-x-lt-gy;
 most rhombs not well developed,
 some 3rd; trace f-mud sd-tr
 in a few pieces -- none in 90%
 pyrite; tr doleritic wh ^{sil} matrix;
 c-x-lt-gy wh dol.

5550 - 5600 Dol, med-lt-gy to lt-olive-gy &
 tr med-gy, vt - med x-lt-gy; rhombs
 poorly developed except locally.
 f-mud rd & fr sd in a few pieces.
 tr soft wh matrix around dol' rhombs
 in a few pieces = little residue,
 no dolocasts.

At 5595 - several pieces lt-gy transl dsch

5600-10 Dol, med-lt-gy to med-gy, slsdy,
 sl cherty, vs - med rhombic;
 several pieces lt-gy ds ^{to tan} substantial
 ch - - one small mass, ^(granules?) enclosed in
 f-m-xlla dol; $\frac{1}{2}$ scattered f-med sd;
 tr sd w/ matrix around c-xlla dol
 Interval has;

1. Some med - c rhombs - some irregular
2. Scattered f-med sd
3. Chert, lt-gy to tan ds, some
 attached to dol, some mat, & lt-
 smy py-gy gran-sized masses
in dol.
 Kynite
 s, w/ c-xlla dol

5610-15 Dol, med-lt-gy to med-gy, vs to
 med xlla; some m-c rhombs
 well developed; tr (=1%) lt-gy to
 wh^t tan mottled ds ch; little
 sand, but one piece 5610-15
 is ^{f-m} sandy & contains ^{a smky-gy} c li gran (1)

5615-25 Dol, med-lt-gy to med-gy, sl sdy,
 v sl cherty, rf to med xlls;
 some m-c rhombs well developed;
 some rags?
 scattered f-med sd in several
 pieces - ~~of~~ ^{tr} smoky-gy ch grains
 in dol; pyrite clear gl3 xll
 tr f-med sd (poorly developed) tr
 ch; tr ds lt-gy; ~~some~~ ^{tr} aols
 (bands) in sdy ^{dol} (3620-23)
 pyrite, tr clear gl3 xlls

ch grains

5625-34 Dol, med lt-gy to lt-clear-gy
 f-med rhombic; web matrix
 between ^{some} rhombs; tr lt-gy
 ds ch; tr f-med sd in
 only a very few pieces; c-xll4
 w4 dol

5635-35 Dol, med lt-gy to med-gy
 rf-med xlls; rhombs not well
 developed except locally; ^{<5%} tr lt-gy
 smoky-gy & tan ds ch, some attached to
 dol; only a few sd ^{mostly m-c-vc} ~~tr~~
 in a few pieces; w4 c-xll4 dol; pyrite

5655-75 Dol, med lt-gy to med-gy
vf - med xlls; rhombs
not well developed; tr ^{22%} lt-gy
to tan ds ch; a few pieces
are v sdy (f-med), otherwise,
little or no sand; tr pyrite

5675-5700 Dol, ^{clayey} lt-gy to med-gy, vfto
med rhombic; <5% lt-gy tan,
f, smoky, blue-gy ds ch;
f-med sd in several pieces;

oe
Opn 5695^t Some ch attached to dol; pyrite

5700-40 Dol, lt blue-gy to med-gy
grades downward to mostly vf to f xlls
vf to med xlls; rhombs poorly
developed; ch ^{2%} lt-gy tan
ds, with c-rhombic dol; a few
pieces v sdy (f-med), otherwise
little if any sd; some ch
enclosed in dol; tr clear f-med
orthoquartzite in upper part; probably
from above

5740 - 45 Dol, lt br-gy to med-gy,
vf - med xls; cl; tr < 1%
med lt-gy & tan ds cl - ^{some} cl-gran
v little if any sand except in
a piece or two; pyrite

5745 - 60 Dol, med-gy, vf - f rhombic;
little if any sand; trace of
smoky gy cl within the dol

5760 - 90 Dol, med-lt-gy to lt olive-gy,
vf to med rhombic; ~~tr~~ f.c
sd (in ^{several} ~~just a few~~ pieces); < 1%
lt-gy + tan ds cl; tr calc to
clear f-med orthoquartzite;
vf sd in some pieces; pyrite

5790 - 5800 Dol, med-gy, vf - f rhombic;
tr < 1% lt-gy to tan ds ^{Some attached to dol} cl; little
if any sand; tr clear f-med
orthoquartzite

5800-15 Dol, med-gy, v f to f rhombic;
tr med rhombs; little if any
ch or sd, ^{except} ~~but~~ rt-t sd in a
few pieces; wk c-xlla dol

5815-25 Dol, med-gy, f-rhombic;
~5% br-gy ds ch; tr f-med
sand, but none in most of sample

5825-35 Dol, med-lt-gy to olive-gy, f-med-gy
v f to f rhombic; tr f-med
rd & fr sd in ^{one or two} ~~a few~~ pieces;
~2% ~~lt-gy~~ tan, & smoky-gy
ds ch; tr ch "mass" in dol

5835-40 (Dol, lt-olive-gy, v f to
med rhombic; scattered f-c
rd & fr sd in several pieces
~2% lt-gy & tan ds ch;
some f-med dol rhombic wk ch

5840-05 Dol, med-gy, v f to f rhombic
Little ch or sd; tr pyrite
wk c-vlla dol in fracture fills

5805-3900 Similar, much c-xlla wk dol, some w/
pyrite; tr ^{~1%} lt-gy & ^{some attached to dol} tan ds ch

5900 - 50 Dol, med-gy, F-rhombic;
 ch $< 1\%$ bluish-sandy-gy
 (mostly attached to dol) & tan ds
 except in slump(?)
 little or no sand; wh c-xlln dol/pyrite
 in fracture-fills

(a 5930 - 40 more ($< 2\%$) tan ds ch,
 some attached to dol) Res: dk. gy free
 clay or carbon
 some c-gy & some
 heavy silt in one piece.
 This interval seems to be
 relatively uniform;

Dol, med-gy, evenly rhombic (P)
 cut by wh c-xlln dol in fracture
 fills; a small amount of
 bluish-sandy-gy & tan ds ch
 appears ~~seems~~ to be present in small nodules.

5950 - ⁶⁰⁰² Dol, med-gy, rf to f rhombic,
 c-xlln wh dol & pyrite in fracturefills
 $< 1\%$ H-gy & tan ds ch
 to tiny bluish-gy ch nodules - "grains"
 may be the only ch that "behaves"

TD - 6002 No appreciable change in
 lower 100' of section

Arkansas Geological Commission No 77

Boardman No. 1 Doggett

C NW NW 31 - 10 N - 3 W Jackson Co, Ark

Samples 605 - 5004

No E-log for this part of log

See Frezon log for upper log

All samples are cable tool, = very
small pieces.

0 - 605 No samples

605 - 2005 Not reexamined -- see

Frezon log

2005 - 15 sh, dk-gy to blk, tr siderite

2015 - 40 sh, dk-gy to blk; trace dk-gy green

limy sh to siltstone; tr siderite

2060 - 2113 ~~sh~~ silts, dk-gy to blk, sl limy.

to limy, f-grained; much

sh as above; tr siderite to pyrite

2115 - 2190 silts, dk-gy, v limy ^{of mic} m-gr;

some l-mic silty ^{limy} dk-gy sh

the difference is not great

2140 - 55 silt_s, dk-gr to med-gr, v limy

f-med gr in part, silty ls
Disaggregates in acid, leaving small res silt_s
Grades into ch; lime & tone

below -- some silt_s attached
to chert in next sample

2155 - 66 ls, lt br-gr, v chunky, st dolc.
to x 120 2158-59
vt-grain; 50% lt-gr to tan

ds, sub-trans ch; f. v bands
of dol in ls; limestone has a
"grained" appearance = xlls

2159-60 10% ch - subbrecciated & cemented

2164-66 - 5% ch

2166-70 ls, lt-br-gr, granular to
vf xlls; lt-br xlls set in
sl lighter matrix; turf, bands
of dol; scattered silt-size
qtz - looks detrital -
N. ch

- 2170-79 Ls, lt-br-gy, granular to F-Allen; F-Allen br calcite in granular ligular matrix which has oriented xlls; scatter of rhombs of dol; br silt-size detrital gtz gtz
- 2179-2200 Ls, lt-gy ^{to earthy wh} to lt-br-gy, earthy green to red xlls; 30% ~~tan to~~ br ds transal ch; only a sl trace of dol & gtz silt. f-c rd sd in sample probably from above
- 2200-30 Ls, lt-br-gy to earthy lt-gy w/ lt-br-gy xlls, green to red xlls; 50% + ~~tan to~~ ^{lt-br to lt-gy, subtransal} br ds ch some sil res to chert in ls; little other residue - no dol
- 2230-40 Ls and ch as above; & little res from ls - no dol
- 2240-45 similar - 10% ch - no ^{ls} res
- 2245-55 similar - <5% ch - no ls res
- 2255-65 similar - <2% ch - tr dol rhombs

77

2265-95 Ls lt-brgy f-xlls in lighter
gran matrix; res; moderate
amt of lt-gy clay or sil silt
fr lt-br-gy waxy clay w/
of alls of calcite; tr whds ch

2285-95 Ls, much as above

Begin Ch; 50% lt-br, br-gy, [?]
Skip of dk-gy ds
old log

2295-2300 NS

2300-01 Ls, lt-brgy, f-gran;
Ch; 20% dk-gy ds

2301-11 Poor samples - ~~small~~
& mostly sh from about
Tr ls as above

2311-2323 Ls, ^{mid-lt-gy to} med-gy to br-gy, vt-f-lls
Slightly mottled - "dirty";
Res; porous lt br to med-gy ch

2323-2350 Ls, lt-br-gy, vt-f-lls;
poor samples - r vt dol rhombs - 1 tiny of 3x11
Cast? 2335-40

2350-15 Ls, med-gy to br-gy ^{to dk-gy}, r f gran,
 tr bracks; Res ^{tr} br-gy silt or clay

2365-2400 Ls, med-dk-gy to br-gy ~~tr~~ to
 f-gran to r f xlla; tr bracks in
 darker ls, tr bracks & gast? in
 lt-brown ls

2400-17 Probably similar - very small
 & r poor samples

2414 - End of strip on old log

2414-24~~30~~²⁵ Ls, med. dk-gy, sl clayey
 to silts, r f gran; res;
 br-gy flakes of clay(?)

24~~30~~²⁵-52 Ls, lt-olive-gy, r f gran to ds
 plattin

2452-59 Similar - tr f-c sd grs in
 clusters with ls. matrix -
~~tr~~ samples are fine and sand
 generally breaks free.

2459-2600 - Not reexamined

- 2600 - 2606 Ls, med lt gy to lt olive-gy
 vt gray to ds; ~~many~~ many
 vt rhombs of dol; several tiny
 slender doubly terminated cts. rts.
- 2606 - 19 Dol, lt-gy, ~~vt~~ f ^{med} sdy,
 vt rhombic
- 2619 - 24 Dol, lt-gy, vt rhombic; no sd
- 2624 - 35 Dol, lt-gy, f-med sdy,
 vt rhombic; rd & fr sd grs
 scattered through most
 pieces; sand content
 increases downward & rock
 becomes limy.
- 2635 - 38 Dol, lt-gy, limy, f-rhombic,
 $\frac{05}{05p}$ 2638 scattered f-med sd grs
- 2638 - 44 ss, med, lt gy, sl limy, dolitic,
 f to med gr; several rd & fr c-grs;
 most grs rd & fr but many
 2 many faces
- 2644 - 48 Ls, lt-gy, v sdy, vt gray;
 f-rd & fr sd grs in ls
 & free; only a trace if any dol,

2648 - 52 Ls, lt-olive-gy, ^{dolite} f-gr var to ds
scattered f-med sd grs

2652-56 Similar - - sl more sdy
f-c rd & fr sd

2656-60 ss, med-lt-gy, limy, dolite,
f-med gr - rd & fr

2660-61 Similar - - quite a lot
of lt-gy limy dol

2661-66 Dol, lt-gy, v sdy (may be
dolite ss in part) v f
~~gran~~ rhombic; rd & fr f-m-c sd,

2666 - 70 Similar, sl more sandy

2670 - 3000 Not reexamined

3,000 - 10 Dol, lt-gy to lt br gy, v rhomb;
trace f-med sd grs

3010 - 20 Dol, lt-br gy sl sdy v f rhombic!
scattered f-med sd; wh c-x/10 dol

77 3029 TD on Deardorff: - Ark Oil Ven, Inc - Doughty
3020 - 3030 Dol, lt-br ^{3029 - TD} (air drill) - fine but representative
94, vt rhombic
trace f-m sd

3030 - 3044 Ns

3044 - 3050 Dol, lt-br-gy to olive-gy
slsdy, vt rhombic
Res: f-med sd, tr silt

3050 - 60 Similar
P, ^{fine} silt grains & pyrite - no sd

3060 - 70 Dol, lt-br-gy to lt olive-gy
vt sdy, ^{slim} vt rhombic;
40% f-c rd & fr sd
Much f-c sd; some ^{fine} silt

3070 - 80 Similar - 10% sd
Res: some f-m sd, some ^{fine} silt

3080 - 90 Dol, lt br gy ^{slim} f-med rhombic!
to f-red sd; Res vt-med sd
much free silt

3090 - 3100 ⁹⁴ Dol, lt br gy ^{slim} vt rhombic
vt sdy in lower part
Tr: vt-t sd; much free silt
Some silt agg; pyrite

3094-3101 ss, med lt gy, dolie,
f-med gr; tr c-grs; rd & fr
Res; much rf - c sand, to silt

3101-10 Dol, lt-br-gy, ^{silt} rf rhombic;
trace f-med sd
R: f-med sd, gtz silt, tr clay

3110-20 Dol, lt br gy, rf rhombic;
pyrite, tr f-med sd gr
R med sd, gtz silt, pyrite

3120-30 Dol, lt br gy rf rhombic
tr f-med sd; tr lt-gr-gy clay
R; tr f-med sd, gtz silt, ^{wh clay aggregate} (tr)

3130-40 Dol, lt-br-gy to med gy,
rf rhombic; tr f sd
R: Tr f-m sd, much gtz silt

3140-50 Dol, lt-br-gy, ^f rf rhombic;
much wh c-xlla dol; tr pyrite
R - f-m sd, gtz silt, pyrite

3150 - 60 Dol, lt br gy, f-r lentic
tr f-and sd.

R - tr sd; much gtz silt

³¹ 3160 - 3170 Dol, lt-br-gy, sandy, f-r lentic
f-c sd gss; pyrite

R - much f-c sd; gtz silt

3170 - 80 Dol, lt br-gy, f-r lentic;
tr v-f silt; wh c-r lentic dol

R - no sand; some silt

3180 - 90 Dol, lt br-gy, f-r lentic

R - tr f-and sd, gtz silt, pyrite

3190 - 3200 similar; tr f-and sd

R - tr f-and sd; much gtz silt.

- 3200-10 Dol, lt-br-gy v/r rhombic
trace only of f-med
R - Much f-med - trace gtz silt
- 3210-20 ^{Probably OK} Dol, lt-br-gy, sandy, v/r rhombic
much f-med rd f-med (=3200-12)
Sample marked 3212-30 (larger chips)
f-rhombic, porous, lt-br-gy dol -
~~no sand;~~ ~~tools out of place~~
R - tr f-med; gtz needles
- 3220-30 Dol, lt-br-gy, ^{s' lining} sandy, v/r rhombic;
tr med sd;
R - tr f-med sd, much silt, gtz needles
- 3230-40 Dol, lt-br-gy, ^{s' lining} v/r rhombic
tr f-med sd
R - v f-c sd; much gtz silt, gtz needles
- 3240-50 ~~R~~ Similar ^{@ 3247-49} Change in color
- dull & darker - may be more silty
R - sl tr f-med sd; much gtz silt

3250-53 Dol, med lt gy to lt br gy v f rhombic
 R - No sd; much disaggregated lt gy
 gtz silt or clay

3253-59 Dol, dall med-lt-gy to med-gy; ^{v f rhombic}
 #11 #12
 D.1 Ls Ls, lt br gy to br gy, v f gran;
 trace of rhombs of dol
 R - Dol - Total aggregate -- probably
 being or an dolie clay
 R - Ls - None except some silt

3259-69 3259-62 - Dol, lt-br gy (cream)
 v f - f rhombic, no Ls -- seems
 out of place (not put in tray)

3262-66 Ls, br-gy, v f gran

3266-69 similar

R - Ls; ^{picked pieces} lt-br gtz? silt & gtz needles

3269-01 Dol, lt-br gy ^(cream); v f rhombic;
 tr f - med sd; tr Ls as above
 in upper sample R; much wh gtz? silt

#4 w - 3270-01 mixture Dol & Ls, lt-br gy
 to br-gy dolie (many f rhombs) v f gran;
 R - tr silt

3281-89 Ls, pale lt-br-gy, dolic,
sl sdy, v f gran to s-xlls
mixed with cream f-rhomb dol

R: tr f sd; v heavy disagg to agg lt-gy silt or clay

3289-95 Dol, lt-gy, v f rhombic
(f-sucrose)

R - tr v f sd; v heavy disagg
lt-gy silt silt or clay.

3293-3305 Similar

R - same test as above

3305-13 Dol, earthy lt-br-gy, v f rhombic,
(finely sucrose)

R - Tr v f sd; much lt-gy qtz silt

3313-17 Similar; sl coarser xlls

R - moderate amt lt-gy qtz silt

3317-18 Ls, dull lt-br-gy, dolic,
v f gran; 30% v f-rhomb dol

R - Tr qtz silt

77

4
3318-24 Similar - tr vf rhombic dol
R - Tr f-c sd; heavy gtz silt

5
3324-28 Dol, dull lt-br-gy, vf rhombic
tr ls as above
R: Tr med-c sd; some gtz silt
Pow dered

6
3328-39 Dol lt-br-gy, vf rhombic
^{scattered}
R - ~~Tr~~ vf-f sd ^{or}; some gtz silt

7
3339-45 ls, dull br-gy, ^{st dolitic} vf gran;
tr dol in sample
R: 2 med sd grs; some gtz silt

3345-47 NS

8
3347-50 Dol, dull lt-br-gy, vf rhombic
some ls as above in sample
R: 1 sd gr; heavy lt-gy gtz silt

9
3350-56 Dol, dull lt-br-gy, vf rhombic
~~tr~~ f-med sd + c; some ls in sample
R: f-c sd; much lt-gy gtz silt

10
3356-65 Similar; less sd; some ls in sample
R: f-c sd - gtz silt

11
3365-71 Similar; some ls in sample
R: f-c sd + gtz silt

- 3371-75 Dol, pale lt-br-gy, ~~stg~~ v.f. rhombic
 quite a lot of rd & fr f-c sd
 R: f-c sd, lt-gy stz silt
- 3375-3387 Dol, dull lt-br-gy, v.f. rhombic
 scattered f-c rd & fr sd
- 3387-95 Dol, lt-br-gy to br-gy v.f. rhombic
 trace f-c rd & fr sd
- 3395-3410 Dol, lt-br-gy, v.f. rhombic!
~~#~~ scattered f-med rd & fr sd
 Tr lt olive-gy ls in lower
 5' -- probably a 1'-thick bed
- 3410-3415 Dol, lt-br-gy, v.f. rhombic;
 scattered f-med rd & fr sd.
- 3415-30 Dol, pale lt-br-gy v.v.f. rhombic
 (v.f. sucrose); tr scattered
 vt-f^{med} sd, tr med-gy clay
 @ 3420
- 3430-34 Dol, pale lt-br-gy, v.f. rhombic;
 little or no sd
- 3434-65 NS

- 3465 - 70 Dol, dull lt-br gy, sandy, v rhombic
^{20%}
 many f-red & fr sdgs
- 3470 - 72 NS
- 3472 - 82 Dol, med-lt-gy, earthy, v rhombic
 Poorly washed
 to f-green; scattered f-med
 pyrite
- 3482 - 89 Dol, lt-br-gy, v f rhombic!
 Dirty
 Scattered r-f sd
- 3489 - 95 Dol, pale lt-br gy, v f rhombic!
 tr f sd
- 3495 - 3505 Dol, pale lt-br-gy, v f rhombic
 little if any sd
- 3505 - 10 Similar; tr f-med sd; tr ls
- 3510 - 16 Dol, pale lt br gy, v s. coarse,
 v rhombic; scattered f-e
 rd & fr sd.
- 3516 - 21 Similar -- only a trace
 of r f sd; pyrite
- 3521 - 23 Similar; scattered
 f-med sd
- 3523 - 27 Powdered -- probably similar

- 3527 - 29
Powdered
Dol, pale lt brgy v f rhombic
tr of - f sd
- 3529 - 35
Dol, pale lt brgy, Sandy, v f rhombic
many f-c rd & fr sd gng
- 3535 - 42
Powdered
similar but v sandy
dol may be powdered & washed out
- 3542 - 50
Dol, lt-br-yy v f rhombic
scattered f-med ^{trc} rd & fr sd; purple
- 3550 - 53
Dol as above, ^{trace of} mostly v f sd
- 3553 - 56
similar - only sl trace f-med sd
- 3556 - 57
Dol, lt-br-yy, v f rhombic;
Moderate amt f-c rd & fr sd
- 3557 - 60
ss, lt-ye-l-yy, f-med gng, trace;
drills free - probably dolc.
- 3560 - 63
ss as above & lt-br-yy
v f rhombic dol
- 3563 - 70
Dol, med lt yy, sucrose, v f x114
little to no sd
- 3570 - 85
Dol, lt-yy, f-gran to v f rhombic
purple, widely scattered f sd
R -
- 3585 - 86
similar, but several grains of f-sd

- 3586-90 Dol, pale lt-brgy v f rhombic
tr v f - f sd
- 3590-99 Dol, pale lt-brgy v f - f rhombic;
many ^{-20%} f-c ~~sd~~ f v sd grs
- 3599-7602 NS
- 3602-15 Dol, lt-gy, f-gran to v f x lly
tr lt-gy f-pyritic sh
just a grain or 2 of sand
- 3615-25 Dol, lt br gy v f rhombic
scattered f-m v f v sd
tr lt-gy f-pyritic clay
- 3625-29 Similar - only a trace of sd
but pyrite in dol
- 3629-39 NS
- 3639-41 Dol, lt-gy, v f gran to v f rhombic
- 3641-52(?) NS
- 3652(?) - 53 Dol, med-gy to br-gy v f gran
② lt-br calcite or ls; trace f-m v sd
Resid. to silt
- 3653-57 NS

- 3657-59 Dol, dul br-gy, rt rhombic
- 3659-61 Dol as above & lt-gy rhombic
dol; much wh c-x/ll dol
- 3661-70 Dol, pale lt-br-gy, r rhombic
- 3670-87 Dol, lt-br-gy, rt-f rhombic
~~fr f-m sd~~; wh xll dol
 R; tr of sd; mostly glz silt
- 3687-90 IV?
- 3690-3700 Dol, lt-br-gy, rt-f rhombic;
 10% f-c sd
- 3700-05 Dol, lt-br-gy rt rhombic;
 scattered f-med sd
- 3705-18 similar; little if any sd
- 3718-28 Dol, pale lt-br-gy, f-gran
 to rt rhombic
- 3728-36 Dol, lt br gy rt rhombic
- 3736-42 Dol, pale lt br gy rt-f rhombic
 sl trace f-med sd
- 3742-48 Similar; 5" f-m sd
- 3748-53 Similar - fr sd

- 3753 - 57 Dol, pale lt brgy vfr rhombic
sl tr f-med sd
- 3757 - 62 Dol, dull lt-gy, f-gran to vfr rhombic
- 3762 - 68 similar; 10% lt olive-gy
dolite vfr gran ls; tiny dol rhomb.
- 3768 - 73 Dol, dull lt-gy, vfr rhombic; conchoidal
- 3773 - 79 dol, lt brgy vfr rhombic
tr f-med rd & fr sd
- 3779 - 93 similar; no sand; tr lt-gy
s-pyritic slt
- ⑥ R - med amt lt-gy sil silt
- 3793 - 3800 Dol, dull lt-gy f-gran to
vfr rhombic
- ⑥ R; heavy sil silt agg &
free
- 3800 - 05 dol, dull lt brgy, vfr rhombic
little if any sd
- 3805 - 10 Dol, dull med-lt-gy to lt brgy
f-gran to vfr rhombic;
5% f-c rd & fr sd

- 3810-13 Dol, dull brgy, v f rhombic
to f-med
- 3813-25 Dol, pale lt brgy, v f rhombic
sltr med sd - 2 grains or 2/sample
- 3825-35 Dol, pale lt brgy, v f rhombic
scattered f-med sd, pyrite
- 3835-40 Dol, brgy, v f rhombic;
pyrite; to grgy pyritic clay
- 3840-50 As above, slightly lighter
- 3850-53 Dol, lt-brgy, v f rhombic
scattered f-c grained sd
- 3853-90 Dol, pale lt brgy, earthy
f-gran to v f rhombic;
5% rd & fr f-c sd ^{in upper part}
decreases downward to middle (3%⁶⁵)
then increases to 5% below
- 3890-98 Dol, pale lt brgy ^{earthy} f-gran
to v f rhombic; little if
any sd
- 3898-20 Similar but 10%-20%
rd & fr f-c sd, pyrite

- 3920 - 30 Dol, pale lt brgy, f-gran
 v f rhombic; f-m sd
- 3930 - 35 Dol, pale lt brgy, f-gran to
 v f rhombic; 5% f-c rd & f-r sd
- 3935 - 38 Similar but only scattered
 f-med sd
- 3939 - 43 Dol, lt brgy v f rhombic;
 scattered f-med sd
- 3943 - 49 Similar - 5% f sd
- 3949 - 60 Dol, pale lt brgy, f-gran
 to v f rhombic; scattered
 (3%) f-med rd & f-r sd
- 3960 - 71 Dol, pale lt brgy, ^{swartz} f-gran
 to v f rhombic; 30%
 f-med rd & f-r sd quartz.
- 3971 - 75 Dol, dull lt-br-gy f-gran
 to v f rhombic; 5% rd & f-r
 f-med sd in sample 3971-75,
 about 50% f-c sd in sample 3972-75

- 3975-79 Dol, dull lt-br-gy, v rhombic
scattered < 5% f-med sd
- 3979-84 Similar, but on sl tr of sd
2nd br-gy
- 3984-87 Mixture of pale br-gy f-gran
to vt rhombic dol; scattered (5%)
f-c rd & fr sd
- 3987-98 Dol, pale lt br-gy f-gran to
vt rhombic; sl tr ^{to 1%} f-med sd
- 3998-4001 Similar & lt gr-gy +
med-gy clay
- 4001-11 Dol, pale lt br-gy, vt rhombic;
tr vt -f sd; gr-gy clay
- 4011-22 Dol, pale lt br-gy, f-gran - vt rhombic;
gr-gy clay; ~~to~~ pyrite;
little if any sd
- 4022-36 Similar; scattered f-med rd & fr sd
- 4036-42 Dol, pale lt br-gy ^{sl} f-gran to
vt rhombic; 30% rd & fr
f-c sd; much gr-gy clay
- 4042-52 ss, yel-gy dolite to fine drilling
f-med gr; tr c gr; rd + fr
some br-gy vt rhombic dol @ base

4052-57 Dol, lt br gy sandy, v^s rhombic
 20% f-m sd of f-sd; some clear
 f-m orthoartzite

4057-79 ss, yel-gy, sil, f-m gr,
 & broken grains
 many xll faces, partly orthoartzite
 gr-gy clay; samples Fe stained

4064-68 - mostly broken grains

4068-69 " " "

4069-71 " " "

4071-74 " " "

4074-76 " " "

4076-79 " " "

4079-4088 Dol, pale lt br ^{sandy} gy f-gran to
 v^s rhombic; 40% f-m sd-free

4088 Change in samples - some cement = casing?
 No more Fe stain. sl limy

4088-91 Dol, med lt gy, f-gran; to
 f-m sd in dol; 40% ^{lt} gr-gy soapy sl

(8) R - moderate sat sil silt or clay-free

4091-96 Dol, lt-br gy, f-gran to r t
 mostly in upper part
 rhombic; to f-m sd to sd
 5% lt gr-gy clay; pyrite

med lt gr to

7096 - 98 Dol, ^{med lt gr to} lt br gy f-gran to rhombic
little if any sand

4098 - 4102 (Poor samples

7102 - 7103 Dol as above, to f-med sd;
5% gr-gy soapy sl

4103 - 70²² No sample or poor samples

4122 - 30 Mixture sd & dol - -

Fe stained - - looks like
samples 4075 - 88 ^{But some cement = below casing?}

Highly silty

Dol, lt-gy, f-gran to
vt rhombic, 40% f-med
sand;

4130 - 34 Mixture - about 50-50 (Fe stained)

Dol, ^{med lt gr to} pale lt br-gy
f-gran;

Sand, yel-gy, f-c rd & fr

4134 - 38 ss, yel-gy, dol's,
f-c gr; much dol matrix

4138 - 39 Similar - highly Fe stained

4139 - 48 Dol, ^{med lt gr to} pale lt br gy vt rhombic
Little or no sand

(10) R-c-gr at 3 silt - moderate amount

- 4148 - 53 Dol, med lt - gy, v f rhombic
- 4153 - 58 Dol, med lt - gy, v f rhombic;
scattered P-m sd - - 25 dol
- 4158 - 62 Dol lt-br-gy ^{sd} f-gran to v rhombic;
40% f-med rd & fr sd
- 4162 - 75 D₂, lt-br-gy to med-gy ^{f-gran to} v f rhombic;
scattered f-med sd; 5-10%
- 4175 - 80 Dol, pale lt brgy sdy
f-rhombic; 20% f-c
rd & fr sd
- 4180 84 Similar but < 5% sd
- 4184 - 88 Dol, lt brgy, v f rhombic
fr f-med sd
- 4188 - 90 Dol, med ltgy to lt brgy, v f rhombic;
chert
to f sd; to tan ds cl
- (2) R - lt-gy & tan ds cl; some c-grgtz sil &
- 4190 - 9200 Dol as above - no sd or cl
pyrite
- 4200 - 4205 Dol, pale lt-br, sdy, v f rhombic;
40% f-c rd & fr sd
- 4205 - 14 Similar but < 5% sd

4214 - 15 Dol, pale lt br-gy, vt rhombic
 ch
 tr lt-gy transl ch
 R: c-gr gtsilt & much f-gr gtz?
 R: silt; tr lt-gy ch?

4215 - 20 similar; tr lt-gy & tan ds ch

4220 - 29 Dol, pale lt-br-gy, f-gran to
 ch
 vt rhombic; ^{tan &} wk ds ch
 pyrite
 R: much lt-gy ds ch;
 R: moderate c-gr to lg gtz silt

4229 - 35 Dol, pale lt br-gy, f-gran
 ch
 to vt rhombic; tr f-med
 and f-br sd grs
 Ch; 5% tan ds; - wk ds,
 some with vt cols, ^{not banded} or pellets
 some chert "grans" in dol

4235 - 38 Dol, tr ch & tr sd as above
 & ^{25%} med-gy f-gran dol

4238 - 50 Dol, lt br-gy, f-gran to vt rhombic,
 5% f-med and f-br sd

4250 - 64 Dol as above; ^{only st. to f-m} little if any sd;
 tr lt-gy & tan ds ch
 R: c-gr gtz silt

4264-69 Dol, lt-br-gy, rt rhombic;
tr wh ds ch - - transl
⊕ R^{much fine} Sil silt, some c-g v

4269-85 Dol, med lt-gy rt rhombic;
1% tan + lt-gy ds ch

4285- Dol, med lt-gy, rt rhombic;
wh c-xlls dol
⊕ R - lt-gy + clear ch, much fine gt silt

4300-07 Dol, med lt-gy, rt rhombic
tr clear to lt-gy & tan transl
ds ch

4307-10 Dol, med lt-gy, rt rhombic
10% clear, lt-gy & tan ds ch

4310-19 similar - 2% ch

4319-28 Dol, med lt-gy rt rhombic
tr clear silica

4320-30 similar 1% lt-gy ds ch

4320-55 similar, only sl (tr) fine ch
in upper part, trace in lower part

4355-4364 Dol, med lt ggy, rt rhombic;
sl to clear gtz

② R - moderate amt fine sil/silt

4364-70 Dol, lt br-ggy, rt rhombic
tr tan dsch

4370-80 Dol, ^{med} lt-ggy to lt brgy, rt rhombic;
tr lt-ggy dsch

4380-4400 Similar; 2% tan, clear dsch

4400-4444 Dol, med lt ggy to pale lt brgy,
rt rhombic; 1% tan, lt-ggy,
+ clear dsch

4444-60 Similar, 3% cl

4460-69 Dol, dull med lt ggy ^{to med-ggy} ~~to~~ f-gran to
rt rhombic; tr tan & lt-ggy dsch

4469-4499 Dol, dull lt brgy to med-ggy, f-gran to
_{2 cl% lt-ggy}
rt rhombic; tr, tan dsch, pyrite

③ R - lt-ggy sil/silt, some ggy

4499-4507 Dol, dull lt-brgy to med-ggy
f-gran to rt rhombic;
little cl

- 4507-20 Dol, med lt gy to lt br gy, (almost red-br)
 br almost ds to
 A f-gran to v f rhombic; some
 lt-gr-gy clay;
 (2) R - 100% wh sil ^{or clayey} egg - picked pieces
- 4520-33 Dol, med lt gy, v f rhombic!
 sl to lt-gy transl cl
- 4533-37 Dol, dull med-lt-gy, f-gran to
 v f rhombic
 (3) R - mostly wh sil (or clay) egg; some fine silt
- 4537-53 Dol, ^{part} lt-br-gy; f-gran to
 v f rhombic; some lt-gy to
 lt-gr-gy clayey dol to clay
- 4553-71 Dol, med lt br gy. f-gran to
 v f rhombic; tr ^{lt} gr-gy clay
- ^{Opal ??}
 (4) R - wh sil or clay egg & free salt
- 4571-78 Dol, lt-br-gy, v f - f rhombic;
 5% lt-gy + tan ds cl
- 4578-84 Dol dol (2) Similar, ^{some med rhombs} only a trace of cl
 Dol is in part med-calcitoid-re-crystalliz'd
 R - picked pieces -
 light-gy sil silt or clay --
 dolocastic in part

Seemingly out of place

7584 Dol, dull lt br gy, f-grains to vf rhombic, sl to f and sd to lt-gy + tan ds cl

7588-4600 Dol, lt-br-gy, vf-f rhombic; hint of oals, but recrystallized

⑩ 4594 R - sl dolocastic lt-gy sil silt ovals, res

4600-11 Dol, lt-br-gy vf-f rhombic; some mid-rhombs; some 10% lt-gr-gy clay

4611-29 Similar, but little clay; whc model, clay 973 x 113

- ⑩ 4615 R - To wh sil silt, sl dolocastic
- ⑪ 4616 R - mostly free
- 12 4620 R - "

4629,- 49 Dol, lt-br-gy to br-gy vf-f rhombic; may be recrystallized

- ① 4638 R - wh sil silt aggs & free
- 2 4644 R - c gtz silt to vf sd

4649-55 Dol, lt-br-gy to br-gy vf - to f rhombic

- ① 4653 R vf sd & to c silt

4655 - 60 Dol, pale lt-br-gy, f-grains rhombic
sl tr^{2grs} f-med rd & fr sd

4660 - 70 Dol, lt-br-gy, vt-f rhombic;
scattered f-med rd & fr sd

4671 - 79 Dol, lt-br-gy, vt-f rhombic;
c-xlts wh dal; one on two
sd grs; tr clear qtz xls

4679 - Dol, lt-br-gy, vt-f rhombic

② 4679
R: - c-silt f-vtsd; much wh silt silt ^{or clay}
③ 4683
R - similar to f-sol

4689 - Dol, pale lt-br-gy, f-med
rhombic - rhombs or not too
obvious - "smear?" ; tr f sd in upper part

④ 4694
R - c-gtz-silt; some med sd gr; p. wh
sl tr lt-gy ch?

4706 - 09 Similar - vt-f rhombic

4709 - 17 Dol, lt-br-gy, vt-f rhombic
trace of f-med rd & fr sd

4717-4730 Dol, lt-br-gy, vt-med rhombic!
scattered (1%) f-med rd &
fr sd grs.

4730 - 39 Dol, lt-br-gy, sandy, f-gran;

30% f-c rd & fr sd

① 4720

R - vf - c rd & fr sd

4739 - 42 ss, lt br-gy, calc, f. egr

55

drills fine for the most part,

but likely 40% dol

3742 - 45 Dol, ^{pale} lt-br-gy, sdy, ^{f-gran to} vf rhombic

10% f-mud rd & fr sd

4745 - 59 Dol, lt brgy to brgy vf to mud

rhombic - rhombs poorly

developed = no porosity

4757 - 63 IVS

4763 - 85 Dol, pale lt brgy, vf to

f-rhombic; much clear silt

gt3; fr f-mud sd?

② 4763

R - Broken gt3 xlls; vf - f sd

① 4775

R - vf - mud sd; fr whsilt agg

to lt-gy

4785 - 93 Dol, pale lt brgy, vf - f rhombic

scattered (1%) f-mud rd

& fr sd

④ 4785

R vf to mud sd

⑤ 4786

R vf to mud sd

- 4793-95 Ss, pale lt brgy, v dolie
(may be sdg dol in part or all)
vf to c gr; mostly rd & fr grs
- 4795-99 Dol, lt brgy to v pale lt brgy,
sandy, f-med rhombic; ~~10%~~ 10%
vf-med rd & fr sd grs
- 4799-4812 Similar but < 5% sd
④ ⁴⁸⁰⁸ R vf to med sd
- 4812-4819 Dol v pale lt-br ^{lt. cream}gy vf-f rhombic
tr f-med sd grs
- 4819-29 Dol, lt br gy f-med rhombic;
rhombic not well developed;
csd Scattered (3%) f-c rd & fr sd
- 4829-32 Dol, lt br gy f-c rhombic;
~~est~~ rhombic not well developed
- 4832-50 Dol, lt br gy vf-f rhombic;
csd Some med rhombic; 5% rd & fr
c sd.
- 4850-59 Dol, pale ^{dull} lt br gy, vf-f
rhombic; scattered (1%)
f to med sd

- 4859 - 76 Dol, lt-br gy, f-rhombic!
^{-20% f}
 10% vf - med rd & fr sd
 (Poor samples - Fe-stained debris)
- ① 4874
 R Abundant vf - med rd & fr sd
- 4876 - 81 SS, lt gel-gy to lt-br-gy, ddis
 vf - m gr; tr cors; mostly
 drills free, amount of dol
 not certain - probably 30%
- 4881 - 84 Dol, dull lt br gy, v sdy, f-gran
 to vf rhombic; 90% vf - c sd
- 4884 - 88 Similar - 10% sd
- 4888 - 90/ Dol, lt-br-gy, f-rhombic,
 scattered (5%) f-med rd & fr sd
- 4891 - 97 Dol, pale lt br gy f-gran to
 vt rhombic; 1% f-c rd & fr sd
- 4897 - 929 NS (Probably changed from air to mud)
- 4929 - 33 Dol, lt-br-gy to med-gy, f-gran;
 3% vf - med rd & fr sd
 (Poor sample - Fe-stained debris)

4933-41 Dol, med lt gy to med-gy
sandy, rf gran; 10% rf - med(+c)
rd & fr sd grs ^{wh} cement in
sample & pipe scale.

4941-43 Dol, med lt gy, rf gran;
pipe scale + Fe stain

4943-45 Dol, med lt gy rf-f sdg, f-gran
(Dirty samples + cement)

4945-47 similar & f-med sandy in part

4947-56 Dol, med lt gy to lt-br-gy,
sandy, f-gran; 15% f-c
rd & fr sd

4956-61 Dol, med lt gy, rf gran;
no sd in dol, but free graniz
in sample - - from above? in part
^{May be f-sdg}
4956
R

4961-71 Dol, med-gy to br-gy, f-med
rhombic; rhombs poorly developed "smeared";
No sd in dol but fr free in sample
4961
R -

4971-81 Dol, med lt-gy to med-gy,
 f-med rhombic; rhombs not
 well developed - - look flattened =
 under water suggests semi-pelletal
 - may be rhombs in matrix
 trace of F sd in some dol pieces

4981-83 (Note on sample sack: First
 real sample after 4929)
 Dol, med lt gy to lt brgy
 vF to F rhombic; drill to
 thin flakes, unlike most carbonate
 ⑤ R-

4983-87 Dol similar to above but
 scattered (5%) rd of fr F-c sd

4987-96 Dol, med lt gy, sandy, f-gran
 tends to drill to flakes
 to f-rhombic; 5% m-c rd of F sd,
 many grains are still
 much in pieces of dol
 ⑥ R-

9996 - 5000 Dol, lt-br-gy, sandy, vt-f
 rhombic; drills to flakes
 5% scattered f-c rd & frsd
 ④ ⁹⁹⁹⁶R

\$

5000 - 5004 Dol, lt-br-gy, f to med
 rhombic; drills to ~~flat~~ flakes;
 under water, shows rhombs
 in f-grain matrix, contacts
 indistinct; little if any
 sand in the dol pieces.
 ⑤ R

TD - 5004