

Book No. ERNEST L. GILMAN
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Mead

548 851
821

- 737 City of Newark 5-12N-W
- 738 - Gordon Crenshaw - Goldman 6-15N-ZE Lowell
- 739 Gordon Crenshaw - Goldman No 2 - 16-15N-ZE Lowell
- 662 - SDX - Morris - 12-7N-2W Wood Ruff
- 842 - Quintin Little -
- 1 Boling - Moose Lodge 26-14N-6W Independence

TARGET

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Arkansas Geological Commission No. 738

Gordon Crenshaw - Hesser Goldman Nol.

S E NW 6-15N, 2E (Lawrence Co)

T.D. 726

Drilled 1939

0-160 No samples

160-183 Clay, med-gy to lt. olive-gy, f-mic, silty.

183-206 Similar

206-252 Similar - sl limy

252-341 Clay, med-gy to lt. olive-gy, f-mic, sl limy
to limy, silty; poor samples

341-367 Clay, olive-gy, f-mic, limy, silty;
swells in water, very active to mud
in acid

367-409 Clay as above & Shell fragments
white, limy, glauc & fr ss;
forams in ss.

409-433 SS, med-lt-gy, limy, f-glauc

⁴⁸⁰
~~501~~ v f to f gr; scattered med grs;
disaggregates in acid

433-456 SS, reddish br, iron-stained,
dirty, f-med gr; to c grs.
limy and glauc where not

⁴⁸⁰
~~501~~ deeply iron-stained

501-501 Some sd as above, but mostly
olive-gy sh; poor sample.

Crenshaw-Golden No. 1 6-15N-2E

501-523 ss, med lt gy, glauc, limy, f-mgr,
tr c-grs

523-545 NS

545-569 "Probably ss as above; poor sample.

569-616 ss, red-br, iron-stained, sl limy,
glauc, f-c gr; poor samples

616-662 ss, med lt gy to med-gy, glauc,
v limy, clayey, f-med gr
Shark's tooth ^{and shell fragment} in sample 640-662 -
probably slump.

662-685 Poor sample, mostly clay,
 $\frac{K}{\text{Paleo}} 700 \pm$ some ss as above

685-708 Similar, but trace of
lt-gy, sl limy, v f rhombic
dolomite -- Opw? or lower Op?

Last sample 685-708

TD-726 (Caplan, PI I, 1954)

Arkansas Geological Commission No. 739
Gordon Crenshaw - Heiser Goldman No. 2
Sec ¹⁶ 15, ¹⁵ 16N-2E Lawrence County
T.D. - 798

- 88-109 Gravel and sand; pebbles to 3/4", chert, quartz, granite, green igneous(?) rock, red black pelitic pebbles.
- 109-130 Similar - $\frac{1}{2}$ to calcitic ch.
- 130-199 No sample
- 192-223 Clay, med-gy to olive-gy, limy, f-mic.
- 223-247 Similar
- 247-268 "
- 268-291 "
- 291-314 " swells in water
- 314-392 "
- 392-450 Sh, olive-gy, ~~st-brn~~ to limy, clay shell with little silt. Swells in water; trace of shell fragments
- 450-472 Ss, med H-gy to reddish-brown, limy, glauc, f-med gr, some c-grs; shell fragments

Crenshaw - Golden No 2

472 - 495 Probably ss ss above that
drills free; sample mostly
clay - some fine f - c sd grs
in the clay; Many shell
fragments & hint of wls glauc
foss / s.

495 - 518 Poor sample
Ss, med lt gy, glauc, limy
f to med gr; most of
sample is clay & chert
from above.

518 - 542 Similar, poor sample

542 - 565 " " "

565 - 588 Poor sample
Ss, dull med lt - gy glauc, v limy
f - gr; well sorted - no med
or c grs; glauc is f - gr, shells.

611 - 588 - 611 Similar

611 - 634 Similar

634 - 658 "

658 - 681 "

681 - 705 Similar; sand is mostly
red - br - iron stained

Orenshaw - Golden No 2

705 - 727 ss, dull med H-gy to med-br,
glauy, limy, f-gy; to med grs

727 - 752 Similar; shell fragments,
crab(?) fragments.

752 - 775 Similar? poor samples

775 - 798 Mostly clay but some free
f'sd; ^{Some ss as above} one piece of H-gy
~~rapidly~~ bentonite? - swells
rapidly in water; no Paleozoic
rock seen.

790

Bit sample

Sly, olive-gy, limy, silty,
f-mic; swells in water

No Paleozoic rock seen.

TD - 798

Arkansas Geological Commission Well No - 737

City of Newark

Sec. 5, T12N, R. 4W.

Samples 615-770

T.D. - 770

0-615 No samples

615-630 Ls, med-lt gray, clayey, m-xlls,
OF(?) Crin; this is a dirty LS in upper
part but clean below
Res - clay aggregate;

All samples ~~625-630~~ contain
bright-green ^{glauc.} pyritic, vst lining

OF? 630 vst gr ss - probably Cason
OF from above

630-645 Ls, lt gray to lt pinkish-gray
med-xlls; tr c xlls; Crin,
gast, etc; ^{upper part} very clean ls
still trace of gr glauc? of to
f-gr ss (traced with ^{zinc} br in lower part)

645-670 Ls, lt gray to wh, med-xlls;
extremely clean; tr pink xlls,
tr f pyrite; still a trace of ^{gray} Oc? ss.

670-675 Ls, vlt-br gray, f-gran to f-xlls;
OF 670 mostly f-xlls of calcite in finer matrix

OF (or OK) no dol, no res; f Ls, lt-br gray,
vst gran to ds; st trace of rhombs
of dol.

City of Newark 5-12N-4W

- 675 - 680 Ls, lt br gy, v f gran to ds
700
- 680 - ~~685~~ similar - pelletal, ^p not xlln,
but faint hint of grains,
pellets, or poorly developed xlls,
700 - 760 Ls, lt-br gy, ds to med-xlln;
pelletal in part:
700-5 Poorly developed xlls silty
705-10 " " " "
710-15 xlln - f-med "
715-20 mottled, v f xlln "
720-25 ds to med xlln - clean
725-30 f-xlln
730-35 f-xlln
735-40 clastic? "grains" in v matrix
740-45 pale lt br - xlln or clastic?
745-50 " "
750-60 " "
~~755-60~~
760-770 well developed pelletal
TD-770 in Op OK

SDX - Morris 12-7N-2W

- 100 - 120 Sand & gravel; f-sd to $\frac{3}{4}$ " gravel; some gr-gy igneous? rock; no clay; ch, sd, ch, odch, etc
- 120 - 140 Similar - some pink granite, etc. broken $1\frac{1}{4}$ "(?) pebbles; no clay
- 140 - 160 Similar; no clay
- 160 - 180 Similar; purple quartzite, black ch no clay
- 180 - 200 Similar; no clay but many $\frac{1}{4}$ " pieces of dull red-brown siderite.
- 200 - 220 Similar, much siderite
- 220 - 240 Similar, less siderite
- 240 - 260 Granules & pebbles ^{quartz} of chert & siderite; some coarse sand, fine sand and clay largely washed out but some present in mudballs
- 260 - 280 Sand, very fine to fine-grained; & c-sd + granules as above - probably slump.
- 280 - 300 Sand, v fine to fine-grained; heavy mixture of med-re sand - probably slump.

SDX-Morris 12-7N-2W

- 300-340 Sand, v f to v c gr; granules; trace of mudballs with v f sand - looks as if the fines are washed out.
- 340-360 ss, v f to v c gr; granules
- 360-380 Similar
- 380-400 Sand, f- to med; only a trace of coarser grains.
- 400-440. Sand, bright, sub-angular, fine.
- 440-460 Similar, some c-grs - slump?
- 460-500 sd, v f to med-gr; some c-grs bright - sub-angular
- 500-560 sd, bright, subangular, v f - f; some med & c-grs
- 560-570 (As above & trace med-lt-gy non-limy, non-swelling clay
- 570-600 sd as above
- 600-650 Sand, "dirty", sub-angular, f-gr; some med-c sd; many dk-gr^{yellow} dk-green, etc non-gls grains
- 650-670 sd, "dirty", sub-angular, f-med gr; some c-grs; trace med-lt-gy clay; dk-grs
- 670-680 sd as above; some med-lt-gy to lt-br-gy silty, mic clay; clay is v sl limy, if at all

SDX - Morris 12-7N-2W

680 - 780 Sand, "dirty", sub-angular, f to med;
dark-grains. some glauc?

trace med-lt-gy clay

780 - 790 Sd as above but med-c gr

790 - ~~800~~⁸²⁰ Sd, f-c gr; clay, med lt gy,
silty, mic; tr siderite,

~~800~~ freshly broken, reddish-brown.

820 - 900 Sd, f-c = slump?

Clay, med lt gy, f-mic, non-limy,
silty; brown plant(?) debris
in clay.

900 - 940 Ss, f-c gr (probably slump)

Clay, lt-olive-gray, f-mic, silty; non-limy,
brown plant(?) debris.

940 - 950 ^{clay} Ss, lt-olive-gray, silty to
vf sdy, sl limy to limy;
much ~~#~~ red-brown siderite.

950 - 990 ^{Sand as above} Clay, lt-olive-gy, f-mic, silty,
non-limy, ^{plant. debris} Sand as above.

990 - ~~1000~~¹¹⁰⁰ Clay as above, in part sideritic.

SDX - Morris

12 - 7N - 2W

1100 - 1300 clay, lt-olive-gy, f-mic, silty;
most of sample is
much sand as above, mostly vf to
f; No sand noted in the clay.

1300 - 1500 Trace of clay as above in
much f-sd.

1500 - 1560 sh, med-gy to lt-olive-gy
f-mic; v sl limy if at all in
most, limy in some pieces.

1560 - 1650 As above -- trace of shells.

1650 - 1670 Mostly f-sd & tr clay
Tr ss, med lt-gy, limy, glauc,
vf to f gr; tr micro-fossils.

1670 -
As logged.

3000 - 3100 Checked - does not look
like CH/MP. -- All CH
Sample 3040 - 3050 contains
vf ss or vf sdy siltstone
otherwise, = sl limy to limy ~~sh~~
clay shale.

3100 - 3300 Not rechecked

50X - Morris 12-7N-2W

3300-10 Sh, med dk-gy, silty, sl limy to limy

3310-20 Silty, med-gy, siliceous, limy

3320-30 Similar - - more clayey

3330-40 Silty, med lt gy, siliceous, limy, & clay shale

3340-50 ss, lt-gy to med lt-gy, limy, v f gr; trace of clay(?) coated grains

3350-60 Similar - - ss is darker & more silty, sl limy

3360-70 ss, med-gy, silty; v f gr & dk-gy sl limy clay sh

3370-80 Similar - - more shale

3380-~~90~~³⁴⁰⁰ Sh, med-dk-gy, limy, clayey; more limy than shale above; Texas & slightly brownish in acid & long reaction.

3400-4000 not reexamined

Entire 100' only slightly phosphatic

SDA-Morris 12-7N-2W

4000 - 4100 - Nearly all sl lining dk-gy clay
sh -- fr siderite
Samples 4080 - 4100 change
to sideritic, limy, clayey, vfsty
"siltstone" -- more limy than above
line, rather than silt probably
causes resistivity -- not a
good siltstone

4100 - 4200 DK-gy sl lining to limy
clay shale; in acid, yields a few
to many small bubbles over a long period

~~4230-40 Translucent vfsty
silt/limy slts~~

the upper 80' is sl more limy
& cuttings tend to develop a
brownish color ~~in~~ after acid
reaction is completed; very
little if any sand in most samples
lower 20' is dk-gy clay sh,
sl lining -

SDX - Morris 12-7N-2W

4200 - 4300 Much as above except
4230-40 - sub translucent
vF sdy sil(?) v limy slts
~~trace~~

Most of interval is sl limy
dk-gy clay shale

4300 - 4400 vFgr limy sil ss, much
in 4300-10, some 4310-20
trace, 4320-30 - looks
OK as logged

4350-60 - the "limestone"
is in part siliceous & leaves
a silty chert residue.

Otherwise, the "limestone" of
this interval leaves a soft
siliceous silt or clay aggregate

4400 - 4500 4400-30 - "ls" leaves soft
clay or sil silt residue

4430-4480 some "ls" leaves
soft residue ^{as above}, some is
siliceous sh or silty, mottled
chert. -- many gradations from
siliceous silt aggregate to "dirty" ch.

4480-4500 - some translucent
"dirty" dk-gy dsch -- partly cloudy.

SDX-Morris 12-7N-2W

- 4500 - 10 Sil shale looks like Mn.
but is not limy or is sl limy
- 4510 - 4700 Not rerun
- 4700 - 4730 Chert, lt-gy to lt brgy
dense, translucent -- some
spot inclusions, esp in lower
part, but some clear in
water; 30% or less lt-br f-gran
silicous ls. Some of the chert is
sl limy, suggesting that the
inclusions are CaCO_3 : f-pyritic chert
- ~~4730 -~~
~~4730~~
- 4730 - 40 Trace of lt-bluish-gy finely
pyritic ^{non-limy} clay = Maury?
One piece of translucent lt-br
chert grades into dk-gy limy
~~shale~~ clay ~~shale~~ -- suggesting clay beds
in chert -- probably above
the Maury?
First (?) dk-gy to blk non-limy,
"granular" sh = Chatt (?)
- 4740 - 50 Small sample ^{of fine cuttings} -- mostly blk sh
& chert debris; pyrite; several
grains of v f ^{sd} (?) that appear
to be clay-coated = thin
basal Chatt ss?

SDX - Morris 12-7N-2W

4750 - 4800 Chert, lt-gy to lt-br,
translucent to opaque; pyrite
& some calcite & clay along
fractures; inclusions tend to
be sl elongate -- some, but not
all are spicules. Not greatly
different from chert above
except pyrite is less "enclosed"
and many pieces in upper
part are lt-gy opaque.

4800 - 10 No sample

4810 - 20 Chert as above - some lt br gy transl.

4820 - 4870 Chert, dull lt-gy to purple white,
opaque-cloudy; ^{many} ~~some~~ spicules,
^{many} but ~~most~~ inclusions are white
indistinct but elongate inclusions.

4870 - 4900 Ch, lt-br gy sub-translucent
to translucent; some indistinct
dk-br gy inclusions; gtz rills.

SDX - Morris 12-7N-2W

4900-5000 Ch, dull lt gy to purple-gy, dense,
sub-translucent to opaque, depending
on abundance of coarse white
spicules. Some pieces are highly
spicular; some other inclusions;
qtz xls, pyrite; almost no
reaction in acid from chert; ^{except a few dol rhombs.} if much
carbonate is present, it is in
separate layers.

5110-10 Ch, dull lt-br-gy to med-gy
transl to opaque, sl dolc;
f-med rd sd in 1 piece

5010-20 Similar ^{Pyrite, spicules} sl more dolc - no sd

5020-30 Ch, lt-br to lt-gy, sl spicular,
pyritic, ^{sl dolc} transl to opaque;
f to med rd sd in some pieces

5030-40 Chert as above & ss as below

5040-~~20~~⁸⁰ ss (orthoquartzite) ^{clear to med lt gy} f-c grained
sub-rounded to rounded silica-cemented
sand stone; trace, if any, carbonate
cement, but silica cement is
"dirty" in 50% of cutting
of upper 30', clean in
lower 10'.

Note: ~~Dol~~ ^{probably is} ~~may be~~ ~~v~~ ~~5~~ ~~ft~~ ~~ls~~ ~~even in the~~
SDX - Morris 72-7N-2W ~~upper samples~~

5000-5100 Dolomite, med-gy, v f rhombic;
Res; pyritic white siliceous
silt aggregate - visible individual
grains - aggregate is easily crushed

5100-5200 Dol, med ~~g~~gy to lt a line-gy
v f rhombic, sl limy to limy
(some ls 5110-20)

Res; lt-gy sil silt - some
free, some aggregate

5200-5300 Dol, med lt gy to med-gy
limy, v f rhombic; some
lt-br ds non-dolic ^{to sl dolic} ls

5230-40

5260-90

Res; lt-gy sil silt aggregate
from dol; little from ls -
some free silt or clay, esp
in lower 20'

SDX Morris - 12 - 7N - RW

5300-5400 ls ¹¹/₁₁ br-gy to olive-gy, sl dolie to
dolie w/ gran to ds; some v/rhombic
limy dol

5300-10 sl dolie ls

5310-20 40% dol - ls clasts(?) in dol;
tr shell fragments

5320-40 30% ls

5320-50 50% ls - ^{1/4}/₁ dol rhombs in
ls matrix is highly variable

5350-60 60% dol - dk-gy clay
partings in ls

5360-70 v sl dolie ls

5370-80 70% dol

5380-90 90% ls

5390-5400 80% ls

R - lt-gy & lt-br sil silt
aggregate from dolomite; some clay
layer aggregate, some free.

SDX - Morris 12 - TN - 2W

5400 - 5500 Ls, lt br gy to olive-gy,
sl dol^{to dol}, v f gran to ds;
tr pyrite
Reaction in acid is rapid until
all pure ls is gone, then
slows in silty, dolc part
Difficult to tell whether
silt or dolomite slows
reaction - some of this may
be silty ls rather than
dolc ls.

5500 - 5600 Ls, olive-gy, dolc, v f gran
to ds, pyrite, lt br gy, silt -
free tag

5500-10	mostly ^{limy} dol
5510-20	50% ds ls
5520-30	80% ds ls
5530-40	90% limy dol
5540-50	60% ds ls - ost?
5550-60	50% " "
5560-70	30% " "
5570-80	40% " "
5580-90	50% " "
5590-5600	50% " "

Difficult to prove dol rather
than silty ls - - no dol rhombs
drop out of ls in acid.

SDX - Morris 12-7N-2W

5600-5700 Ls, lt-br-gy to olive-gy
f-gran to ds; some pieces are
v silty (cryptocrystalline quartz
silt?) and others are non-silty,
no evidence of layering of silt --
looks like a diagenetic arrangement

On rock face, silt silty carbons &
is judged to be silty - silty dol

The evidence for dolomite is, at best, weak

1. Rapid initial reaction
2. No dol rhombs fall out of ls while it is in acid.
3. Slow & durable reaction becomes rapid when cutting is broken or crushed in acid

5600-20 - 50% silty

5620-30 - 80% silty

5630-40 - 90% silty

5640-50 - 80% silty

5650-60 - 80% silty - clastic? spicules?

pyrite

5660-70 60% silty

5670-80 70% silty

5680-90 70% silty

5690-5700 60% silty

SDX - Morris 12 - 7N - 2W

5700-5800 Ls, med-gr to olive-gr, silty,
vf gran to ds, pyrite

00-10	10%	silty ls
10-20	60%	" "
20-30	70%	
30-40	50%	
40-50	100%	= Dolomite
50-60	"	
60-70	"	
70-80	"	
80-90	"	
90-100	"	

^{30-40 wh vlt gr det}
5800 - 5900 Ls, lt-br-gr to md-gr, silty
f-gran to ds
Nearly 100% silty, ^{Br}lt-gr
sil silt agg.

SDX - Morris 12-7N - 2W
5900 - 6000 Pyrite - 5940 - 50

5900 - 10	- 90% silty	} silsilt Res	
10 - 20	- 95% silty		agg - 50%
20 - 30	- 80% silty		free 31%
30 - 40	- 100% "		
40 - 50	- 100% "		
50 - 60	- 90% 100% "		
60 - 70	- 90% "	R 75% free	
70 - 80	- 90% "	R 50% free	
80 - 90	- 80% "	R 100% free pyrite	
90 - 6000	- 90% "	R 100% free	

Reaction in acid is slow from the beginning = dolomite; trace of lime in upper 20' (?).

- Dol, med-gr, silty, ~~tr~~ of to f rhombic; sl limy, esp in upper 20'; slightly coarser rhombs than above, esp 5960-70

SDX-Morris - 12-7N-2W

6000 - 6020 Dolomite, med-gy,
silty, v f rhombic; f pyrite,
Res - 14-gy sil silt aggregate,
some free silt, but mostly
soft aggregate; f

Probably little if any CaCO_3
in this interval

TD - Driller - 6020

Schlumberger - 6018

842 - Arkansas Geological Commission

Quinta Little

330' N, 990' E of SWC SW $\frac{1}{4}$ NW $\frac{1}{2}$

= SE SW NW 30-15' N-5 E

Craighead County, Ark.

GL = 270' \pm Estimate from AMS.

E-log 500 - TD TD - 8685
10' Samples

- 0-10 Sand, f-gr; silty, dirty, angular
- 10-100 Sand, f-gr; gt & ch grains
Some clayey & silty Fe (limonite?)
masses; sand grains are sub-angular.
- 100-540 Not representative; clay has been
washed from samples &
remainder is sand as above = slump.
- 540-570 First samples below casing
Clay, olive-gray, f-mic, v silty;
br-gy to gy sideritic slts.
- 570-580 As above & 50% dk-gy lignite
- 580-600 Clay, olive-gy, f-mic, silty.
- 600-640 Siltstone or silt, olive-gy, f-mic,
clayey, v sl ling.
- 640-900 Clay, olive-gy, f-mic, v silty,
sl ling (pinpoint); red-br to
br-gy siderite; tr plant fragments,
Tr lignite 770-780, tr-grants @ 880

842

900-920 Mixture, clay, non-silty, olive-gray,
& olive-gy f-mic siltstone;
pippoint lime.

920-960 Clay, olive-gy, f-mic, silty; red-br
siderite; Foraminifera & tr glauconite
@ 940-50.

960-980 Clay as above & tr br non-limy
v f sdy silts.

980-1000 Clay, olive-gy, mic, silty;
many foraminifera.

1000-1146 Clay, olive-gy, mic, silty, limy.
tr red-br siderite.

Small coral? - 1000-1010

Foraminifera - 1030-40

tubes - 1040-50

tubes & shells - 1060-70

tubes - 1070-80

shells & forams - 1090-1100

tubes & glauc - 1100-1110

tubes - 1110-1120

tubes & shells - 1120-1130

tubes & glauc - 1130-1140

1146-1160 Clay, med-gy, sl limy, plastic.

1160-1200 Clay, olive-gray, silty, mic, sl limy,
gr-gy v limy v glauc silts or
silty ls; much fine glauc; forams,
tubes.

842

- 1200-1210 Clay, olive-gy, v glauc, silty, limy;
tr f-med sd; forams
- 1210-1230 Sand, lt-gg to med lt-gg, glauc,
foss, very limy (sdy ls in part)
* f-vc gr; trace of granules;
many shell fragments; drills
free except for more limy part.
- 1230-40 Ls, lt-br-gg, silty, v sandy,
glauc, f-gran; many shells and
forams; sand is f to vc.
- 1240-1280 Similar but more sandy =
ss, med-lt-gg, glauc, foss,
v. limy, f-vc gr; drills
free except for more limy
part; shells, forams.
- 1280-1300 Sand as above but more clayey
in part; some beds of
olive-gy clay.
- 1300-1316 Clay, olive-gy, glauc, sandy
(in part) limy.
- 1316-1330 ss, lt-gg, vt to vc gr; granules;
limy, glauc, silty; shells.
- 1330-1400 ss, med-lt-gg, v glauc, silty,
limy, vt to f-gr; tr med grs.
shells; glauc mostly f-gr. Res: sd & glauc
At least 50% of each sample is clay - stamp?

842

- 1400-10 Sand, clean, free-drilling, f-vc gr;
sub-rd & polished; tr glauc
- 1410-1490 SS, med-lt-gy to med-gy, v silty,
limy, glauc, v f gr; shells.
- 1490-1510 SS, med-lt-gy, glauc, limy, f to vc gr;
some f-gr silty ss as above; med to
vc grains are rd & polished. free
drilling; shells
- 1510-1540 SS, med-lt-gy, v glauc, silty,
limy, v f to f gr; much f-gr
glauc; shells.
- 1540-1550 SS, lt-gy, mostly free-drilling,
glauc, f to med-gr; c & vc grs;
sub-rd & sl polished; shells.
- 1550-1600 Sand, free-drilling, clean, rounded,
polished, f-vc gr; tr glauc.
Tr qtz & ch grains 1580-90.
- 1600-1640 SS, med-gy to med-lt-gy, glauc,
silty, limy, f-med-gr;
scattered free-drilling m-vc sd
& chert & qtz grains in upper half
shells; 30% clay - slump?
- 1640-1650 Sand, free-drilling, v f to vc gr;
rd & polished; tr qtz grains, no ch; shells.
- Base K 1650
Top of Paleozoics

842 Top of Paleozoics

1650-1660 Dol, dull br-gy (weathered) limy, f-gran; pyrite. May be dolic ls in part

1660-1670 Dol, dull lt-br-gy, limy, v/r rhombic; tr lt-gy siliceous sl dolic f to med ss.

1670-80 As above but 40% orthoquartzite and dolic ss.

1680-1700 Dol, lt-br-gy, limy, sandy, f-rhombic to f-gran; sl sdg to dolic ss

f-med ^(tr cor) rd & fr grs, pyrite

1700-1710 ls, olive-gy, pelletal tool, f-med sdg, f-gran Some lt-gr-gy v/r sdg dol 1700-1710 Some say dol as above

1740-1790 Dol, lt-br-gy to olive-gy, limy, sl sdg v/r rhombic scattered f to med sd grs

1740-50 Dol, lt-br-gy, f-sucrose, v/r rhombic. (one med sd gr in dol)

1750-1770 Dol as above & some olive-gy v/r rhombic dol; 30% tr br-gy v/r gran, sl pelletal ls.

1770-1800 Dol, lt-br-gy to olive-gy, limy, v/r rhombic; 50% olive-gy v/r gran ls w/lt-br sil res

1800-1870 Ls, br-gy to olive-gy, sl dol, v/r gran br ds, ast ^{small} brack @ 1800, 1810, 1820, 1830, 1840, 1850 1860 - Res; lt-br v/r gran sl salt n clay res.

Lower part mostly thin ls pelletal f. ls. Some limy congl. dol & ss grs

842

1870-1890 Ls, br-gy, sil, ^{sl dolic} v f granular;
foss? to of f sil. Res lt-br sil

1890-1900 Dol, lt-br-gy, v limy, v f gran;
disaggregated silt or clay res; brachs

1900-2000 Ls, olive-gy to med-gy, ^{sl dolic, to elastic} sl pelletal, v f gran; brachs; ost?
Res; lt-br sil silt or clay aggregate.

osts? & Graptolites? @ 1970

Graptolite @ 1990

^{2090?}

2000-2040 Ls, med-gy to olive-gy, ^{sl dolic?} v f gran; pyrite; sl pelletal,
sl foss; gast ^{ost?} brach, orthocone?

Res; lt br sil silt egg

Trace of Galena @ 2040

^{2090?}

2100-2110 Poor sample - mostly calc

2110-20 Dol, dull med lt-gy, sl limy,
v f rhombic; 10% lt red-gy;

Res; disaggregated silt silt

³⁰

2120-40 Dol, dull med-gy, limy,
v f rhombic

Res; disaggregated silt or clay

³⁰

2140-2160 Ls, dull med-lt-gy, dolic,
v f xln to gran; ^{tr} pyrite

III

Res; lt br sil egg

2160-2200 Ls, med-gy, sl delic[?], f-gran[?],
ost[?]; calcite in part, foss[?]
Res: full med-gy sil silt aggr

2200-2300 Ls, dull med-gy, sl delic[?],
"Figured" VF gran[?], Foss[?] ^{ost[?] crin[?]} brach[?] crin[?]
Res: sil silt or clay disaggregated
@ 2240 - 50 doubly terminated
qtz xlls.
(@ 2280, crin[?] ring in res)

2300-2320 Ls, med-gy, VF xlls to f-gran;
hint of shells = ost[?] brach[?]
R; lt-br sil silt aggr

2320-30 Ls as above; brach[?]; one $\frac{1}{4}$ "
smoky-gy ds ch concretion.

2330-2350 Ls as above of lt-gy, earthy
ls that looks clastic in part;
no residue from it = tr pyrite;
columnals & hint of other
fossils

2350-2370 Ls, med-gy to lt-br-gy, f-gran to
f-xlls; brach[?] ^{sl delic} ^{columnals, ost[?]} probably other
fossils;
Res: lt-gy sil silt

842

2370-7400 Ls med-gy & lt br-gy, vt gran to
f-xlls; shells - brach ~~or~~ ost(?)

Res; lt-br sil silt - some aggregate

2400-20 Ls, br-gy to med-dk-gy, f-gran, brach,
hint of ^{thin} fossils;

Res: lt br gy siliceous silt agg.

2420-2450 Ls, med-gy, ^{pelletal to columnals} f-gran; res lt br sil silt agg

20% Det, med dk-gy f-rhombic; res br sil silt agg

2450-60 Ls, dull med-gy, f-gran; ^{RL} br sil silt agg

Several pieces of red-br f-gran

ls that looks sl weathered? -- heavy

red-br sil silt agg residue

2460-70 Det, dull med-gy, v f rhombic

2470-2530 Ls, med-lt-gy to ^{pink = pelletal to} red-br f-gran;

hint of fossil shells - brach or ost

res; lt-gy to red-br sil silt agg; calcite xlls -

in vags?

2530-2600 Ls, med-gy to med-lt-gy ^(earthy) pelletal

to f-gran; res - to lt-br-gy

sil silt agg; tr brachs; grapholites?

2600-2650 Ls, dull med-gy, pelletal to

f-gran; hint of fossils; brachs

Res: lt-br sil silt agg

842

2650-2660 Dol, dull med-qq, sl lining, vfr rhombic

Res - br-qq sil silt agg

2660-2670 Ls, med-qq, pelletal to f-gran;

Res - lt br-qq sil silt-free

2670-2690 Dol, dull med-qq ^{sil lining} vfr rhombic

Res -

2690-2810 Ls, dull med-qq, ^{solonchalic in part} ~~oolitic~~

pelletal to f-gran; brachs

R, ^{heavy} br-qq sil silt agg

tr pyrite

2810-2820 Dol, dull med-qq, vfr rhombic

Res: med lt qq sil silt agg

2820-2900 Ls, dull med-qq, delic, silty

f-gran to pelletal; brachs and other

fauna

Res; ^{heavy} med-lt-qq sil silt res-agg

2900-3110 Ls, dull med-qq, sl pelletal but

3110

mostly vfr gran; brachs; bit of other fossils - columnals? @ 3090

Res; ^{heavy} dull br-qq sil silt aggregate

842

3110
3110~~1~~ - 3130 ls, med-gy, ^{rc}clastic to f-gran;
^{to grains} rounded grains of ls in part
Res: lt-br gy sil silt aggregate

3130 - 3160 ls med-gy to br-gy oolitic,
pelletar, clastic, f-gran
Res - lt br gy sil silt aggregate

Some of silt is coarse & looks clastic (3140-50)
3150-60 - silt suggests ~~center~~ ^{of} molds of fossils

3160 - 70 ls, br-gy to med-gy, oolitic,
br med ools, centers darker brown;
Res, mostly c-silt sized gtz - some
with hint of x/l points

3170 - 90 ls, br-gy to med-gy, sl ool, clastic
sandy, f-gran; med-oals; some
rd grains to granules of ls; sand
is f to med, ^{tr}rd; some lining ss - vf-c
Res: rd & fr vf-c sand; some
silt sized gtz only in silty ls.

3190 - 3200 ls, med-gy to br-gy, f-gran;
fossils?
Res: lt br gy coarse sil
silt aggregate.

842

3200-3210

Ls, lt br gy, f-ool, v f sds,
f-grau; 100% f ools & f-sd
in spar? matrix
Res: v f to f sd

3210-20

Similar to above but less
mixing of v f sd & f-ools
Res - v f sd to fine sil silt

3220-30

Ls, ~~lt~~ br gy, f-grau to
ds; f ools in part
Res; light - br gy sil silt ag

3230-60

Ls, br-gy, f to med ool,
clastic, f-grau; well developed
oolites in some pieces, clastic
grains in some, coarst
qtz-silt in some.

Res: - mostly sil silt,
some fine; some v f to f sd

3260-3300

ls, br-gy, sl ool, sl pelletal,
f-grau; ools in some pieces,
clastic grains in some, silt in
some, but mostly pelletal to ds
Res: ^{or to 1/2 br} sil silt aggregate.

842 -

3300-3400 Ls, med-gy to br-gy, pelletal
to dense tr. clastic grains;
Res - ^{moderate amount of} lt-br gy sil/silt agg.

Some of residue = molds of foss (brach, etc)
fragments

3400-3500 Ls much as above, sl less
pelletal Res; hint of
brachus -- may be some columns
mostly ~~#~~ moderate amount of
lt-br sil/silt aggregate; some
free v f qtz xltz in non-silty
ds ls,

3500-3600 Ls, med-gy to br-gy, sl f-colitoid,
sl pelletal, sl clastic, mostly
silty f-grau teds;

Res; moderate to heavy siliceous
silt or clay aggregate and free; some
c qtz silt; trace dk-gy ^{tdk-bi} clayey? res.

3600-3700 Ls, br-gy to med-gy, silty,
sl colitoid, ~~#~~ clastic (lower 30'),
f-grau

R - moderate amount of lt-br-gy
silt/silt or clay aggregate; some
c-qtz-silt; tr dk-gy clayey res.

842

3700-3800 Ls, med-gy to br-gy, silty,
sl clastic, sl clayey, v f grain;
hint of brachs & other foss
Res; moderate amount of
lt-br-gy sil silt aggregate,
some c-silt; tr clayey layers

3800-3900 Ls, med-gy to br-gy, silty,
sl clastic, foss, v f grain;
hint at brachs and graptolites?
Res; lt-gy sil silt aggregate,
some c-gtz silt ^{traced}, trace of gtz alls.

3900-4000 Ls, med-gy to br-gy, silty,
sl peltolal, sl clastic, f-grain;
brach in lower part
Res; moderate amount of lt-br-gy
sil silt or clay aggs; some
c-silt

4000-4100 Ls, as above, slightly more
clastic; foss (mostly brach or
ost) fragments,
Res; moderate amount of
lt-br-gy sil silt or clay aggs;
quite a lot of c-gtz-silt in
many pieces

842

4100-4200 Ls, med-gy to br-gy silty,
sl pallelal, sl clastic, f-gran
Res; moderate amount of lt-br-gy
sil silt or clay; some cgtz silt
Some layers of dk-gy clayey ls

4200-4300 Similar -
gray-st. l. ? 4250-60

4300-4400 Ls, med-gy to br-gy, clastic,
pallelal ^{to sub-aq.} sl sily, f-gran; f-med rd & f-
sd @ 4360-70 & 4380-90

Res; moderate amount of lt-br-gy sil
silt or clay qgg; br f-med sd; some c-gtz silt
4310-20 Ch, trace, br-gy, dense
4340-50 trace br-gy ds cl
438-90 columnar ring

4400-4500

Ls, med-gy to br-gy, clastic, f-gran
to ds;

Res; moderate to small amount of lt-gy
sil silt or clay qgg; some c-gtz silt

4430-40 brach.
4470-80 Ost?
4490-90 Clin (?)

4500-4600 Ls, med-gy to br-gy, clastic, f-gran;
tr f to med sd 4500-4520

Res; moderate to lt amt of sil silt
or clay qgg; to c-gtz silt

842

Box 3

- 4600-4700 Ls, med-gy to br-gy, clastic, ~~filled~~
f-gran; hint of foss frags.
Res; moderate amount of lt-gy sil silt
or clay res
- 4730-40 tr f sd
- 4720-30 - dk-gy clay sh; grapholites?
vf rhombs of dol

- 4700-10 - Ls, med-gy to br-gy f-gran; e-pts
silt - in part ^{vf} ptz xlls; tr dol rhombs
lt-br vt colored to pelletal, sl dolie ch
- 4720 ~~60~~ ⁷⁰ Similar; f-mul sd in wh to clear silica

- 4720-30 wh med dolorhombic cl,
4730-40 smoky gy ds cl, vf to med
sh in sil matrix
- 4740-50 tr lt smoky ds ch; vf-fsily
wh ch or silica
- 4760-70 tr c sd (f f-mul) in
wh silica

842

4770 - 4800 Dolomite, lt br gy to reddish-brown,
sl lining, v f rhombic
to v f sd in lower 10 feet.

4800 - 4830³⁰ lg, med-gy, f-med sdg, c silty,
f-grau, to dk-gy clay; some
v f - f sdg clear to wk siliceous

13
at 4830

pyrite

4830 - 40^{Similar} about 50% dol

(to some br-gy)

4840 - 50 Dol, med-gy, mottled, f-med sdg,
f-med rhombic
sl lining; ~~f to med sd~~ f-med rhombic

4850 - 60 Similar but mixed dol & ls
f-med sdg

4860 - 4890 Ls, med-gy to br-gy, f-med sdg, oolitic,
f-c oolitic, f-grau; trace f-gtz
all ls; oolites are ^{very} well developed
in some pieces - ^{most} other pieces are
oolitic or peltal. pyrite; much
of sand in ortho quartzite

@ 4880 - 90 long (1/2") slender brown
qtz xl in ls

4890 - 4900 Ls med-gy, v f sdg, clastic,
peltal, f-grau

842

4900 - 40 Dol, lt-br-gy to med-gy, sl f-^(c) sdy
f to med rhombic; most of
sand is f-as in orthoqtz. It

4940 - 60 Mixture of dol as above &
br-gy clastic; pelletal, oolitic
f-^(c) sdy ls;

4950 - 60 Dol, lt-br-gy, sl f-med sdy, ~~sl~~
~~clayey~~ f-med rhombic;
trace of med-gy clay layers

4960 - 5000 ls, br-gy to med-gy, sl f-med sdy
sl dolis
f-gran; pelletal to clastic in
part

Res: lt-gy ^{f-med sdy} sil silt or clay aggs

5000 - 40 Dol, lt br-gy to med-gy, sl clayey
f-med sdy, f-med rhombic; do c
rhombs

5040 - 60 sl Dol as above & lt-gy rhombic
dol. some why f-^(c) gr ss
w/ wh sil matrix

872

- 5060 - 80 Del, ^{med} lt-gg to med-gg, 2/3 to med rhombic; tr f-m ss
- 5080 - ~~5100~~ ⁵¹⁰⁰ Del, med med lt-gg v f rhombic E, med-gg f-rhombic; 30% med lt-gg v dolc f-mgss; some @-gss
- 5100 - 10 Del, lt-br-gg, f-med rhombic; some med-dk-gg f-m rhombic del that is sl clayey; ^{5%} w/ sil/dolc f-m rd E' fr ss
- 5110 - 20 mostly lighter E' finer rhombic del; 10% f-arg dolc ss to sdy del
- 5120 - 30 Del, lt-br-gg to med-gg, f-@-gss, f-med rhombic
- 5130 - 40 Mostly ^{med} lt-gg v f-rhombic del; some as above
- 5140 - 50 Del, lt-br-gg, f-med rhombic; trace lt-gg to sawty gg ds c h
- 5150 - 60 Similar but f-med sdy
- 5160 - 70 Del, lt-br-gg, f-med rhombic
- 5170 - 80 Similar; trace w/ f-m ss
- 5180 - 90 Del, lt-br-gg to med-gg f-med rhombic; tr c-khomb
- 5190 - 5200 Similar - trace f-med rd E' fr sd scattered in med-light-gg v f rhombic del.

842

- 5200-10 Dol, lt-br-gy to med-gy, f-med rhombic; f-med stry in part
- 5210-20 Dol, med-gy, f-med rhombic
- 5220-30 Similar & med lt-gy of rhombic dol to med lt-gy earthy ch
- 5230-40 Dol, med-gy f-med rhombic
- 5240-50 Similar; tr ool ch - br-gy ools & med sil in lt-gy chert
- 5250-70 Dol, med-gy, f-med rhombic; 5% med lt-gy ds ch
- 5270-80 Dol, med-gy f-med rhombic
- 5280-80 Dol - similar; ch 5% med lt-gy ds & wh f-dol rhombic
- 5290-5300 Dol, lt-br-gy rt rhombic; & med-gy f-med rhombic dol
- 5300-10 Dol, med-gy, f-med rhombic
- 5310-20 Dol, med-gy, f-med rhombic; trace f-med g-dolic sil ss.
- 5320-30 Dol, med-gy f-med dk-gy f-med rhombic; tr f-med sil ss - some (C) g-r; tr med lt-gy ds ch
- 5330-50 Dol, lt-br-gy, f-med rhombic; tr f-med med & f-med sil

842

5330 - 30 Dol, med lt qtz v f - f rhombic!
< 5% med lt qtz ds ch

5380 - 3400 Dol, lt br qtz, f - (C) sdg v f to
f rhombic; 20% lt qtz to
wh dolie to sil f - (C) gr ss

5400 - 10 Dol, lt br qtz, f - med rhombic!
20% lt - qtz to wh sil & dolie
f - (C) gr ss

5410 - 20 Dol, lt br qtz, m - c rhombic
10% f - med gr sil & dolie ss

5420 - 30 Dol, lt br - qtz, f - med rhombic

5430 - 40 Similar; f - (C) sdg

5440 - 50 Dol, lt br qtz v f rhombic &
med - qtz f - med rhombic

5450 - 60 Similar; < 5% f - m sdg dol

⁵⁰ 60 - 70 Dol, med - qtz, f - med rhombic!
tr wh f - (C) gr ss; tr med lt qtz
ds ch

5470 - 80 Dol, lt br - qtz f to med rhombic!
trace f - med sd; 10% wh
sil f - (C) gr ss; tr med - qtz
ds ch

5480 - 5500 Dol, lt - br qtz to med - qtz f - c rhombic!
trace of wh f - gr ss; 5% lt
dull med lt qtz to oliv - qtz
ds ch

842

- 5500-20 Dol, lt br-gy f-med rhombic;
tr sil f-med grass; tr med lt-gy
ds ch
- 5520-30 Dol, lt-br-gy rf-f rhombic;
tr lt-gy sil f-med ss; tr lt-br
ch, calc. toid ~~to~~ med sdy
- 5530-40 Dol, lt-br-gy ^{to med-gy} rf-f rhombic;
5% lt-br to wh dolc to
sil rf-f grass
- 5540-50 Dol, lt-br-gy, rf-f rhombic;
tr lt-gy sil rf-f ss; tr
ml-lt-gy ds ch
- 5550-60 Dol, lt-br-gy, rf-med rhombic;
tr wh ch w/ br ools; tr
ml-lt-gy ds ch
- 5560-80 Dol, lt-br-gy, f to med rhombic;
tr wh f-med grass $\frac{1}{2}$ to med-lt-gy
ds ch
- 5580-90 Dol, lt-br-gy rf-f rhombic;
f-med sdy
- 5590-5600 similar
- 5600-30 similar; w/ th dofs
- 5630-40 Dol, lt-br-gy, sl f-med sdy,
f-med rhombic

842

5640-50 Dol, lt br gy to med-gy, f-med rhenic;
sl sdy (f-med gr),

5650-60 Dol, lt-br-yy v f-rhenic;
5% sneaky gy ds cl

5660-70 Dol, lt-br-yy, f-med rhenic;
tr wh f-med gr ss; 5% lt
med-lt-yy to sneaky gy ds cl

5670-80 Dol, med lt-br-yy, sl f-med sdy,
f-med rhenic; tr wh f-ss
& tr med-lt-yy ds cl

5680-90 similar but little or no sil
tr med-lt-yy ds cl

5690-5700 Dol, lt br gy v f-f rhenic;
5% + med-lt-yy to sneaky gy ds cl.

5700-10 Dol, lt br gy, f-med sdy,
f-med rhenic; 10% lt-yy
to sneaky gy ds cl

5710-30 Mixture, Dol, lt-br-yy v sandy
(f-med) f-med rhenic;
wh to lt-br sil to dolc
f-med gr ss; ^{10% + wh to} med-lt-yy ds cl

5730-40 Dol, med-yy, f-med sdy,
f-med rhenic; some
sil f-in ss; tr wh to lt-yy
ds to earthy cl.

842

- 5740-50 Dol, med-gy to dk-br gy, sl
clayey?, sl f-m sdy, f-med rhombic,
tr wh f-m ss; chert, 10%
med lt gy ds
- 5750-60 Similar, < 5% ch
- 5760-70 Dol, lt br gy to med-gy
f-med rhombic; tr med lt gy
ds ch
- 5770-80 Similar
- 5780-90 Dol, med-gy to med dk gy,
sl f-sdy, ~~tr~~-f rhombic,
tr dk-br & med lt gy ds ch
- 5790-5800 Dol, med-gy to med dk gy, sl
f-med sdy, f-med rhombic,
5% med lt gy to br-gy ds ch
- 5800-10 Dol, med-gy to med-dk-gy f-med rhombic
5% small gy to med lt gy ds ch
- 5810-20 Similar - some dk-gy & br-gy
ds ch
- 5820-30 Pl, med to dk gy, f-med rhombic,
10% - med lt gy, br-gy, & dk-gy
ds ch
- 5830-40 Similar < 5% ch

842

- 5840-5850 Del, med todkgy, F-mul r krombie;
5% med ltgy to br-gy dscl
- 5850-60 Del, med-gy, F-rhombic;
tr ltgy dscl; tr f-mul sd.
- 5860-70 Del, med gy, F-mul r krombie;
tr med ltgy ^{br-gy} dscl
- 5870-80 Similar
- 5880-90 Similar
- 5890-5900 Similar
- 5900-10 Del, med-gy, F-mul r krombie;
tr med ltgy & br-gy dscl
- 5910-20 Del, med-gy, F-m r krombie
- 5920-30 Del, lt-br-gy to med-gy, F-mul r krombie
- 5930-40 Del, similar; <5% dull
Smoky gy dscl
- 5940-50 Del, med-gy to br-gy
F-mul r krombie
- 5950-60 Similar; tr dk-gy dscl
- 5960-70 Del, med-gy to br-gy, F-mul r krombie;
tr br-gy dscl
- 5970-80 Similar; 10% lt-gy & tan
dscl
- 5980-90 Del, br-gy, F-mul r krombie;
10% lt-gy & tan dscl

842

5990 - 6000 Dol, lt br-gy vt - f rhombic;
tr med lt-gy ds ch

6000 - 10 Dol, lt-br-gy to med-gy
vt to med rhombic; tr
tan ds ch

600 - 20 Dol, lt-br-gy to br-gy, vt to
med rhombic; 20% chert
med lt-gy & tan ds ch
dolorhombic w ch ch
oolitic brown ch
gtz xls

6020 - 6030 Dol, br-gy, vt to med rhombic
20% ch; lt-gy & tan ds ch;
pelletal or clastic tan ch.

6030 - 40 Dol, med-gy, f-med rhombic
5% tan to lt-gy ds ch

6040 - 50 similar

6050 - 60 Dol, br-gy to med dk-gy,
f-to med rhombic; 10% ch
tan & med lt-gy ds

6060 - 70 similar; 5% tan to
dk br-gy ds ch

6070 - 80 Dol, br-gy to med dk-gy,
f-med rhombic; 10% tan
to dk smoky gy ds ch

842

- 6080-90 Dil, lt-br-gy to br-gy f to med rhombic, ch; 10% wh & tan dense; tr wh f doler rhombic
- 6090-6100 Similar; 5% ch
- 6100-10 Dil, lt-br-gy to med-gy, f-med rhombic, ch; <5% wh & tan (some mixed) dense
- 6110-20 Similar; <5% tan ds ch dull ^{smoky} grey ds ch; tr wh & tan (mixed) ds ch
- 6120-30 Dil, br-gy to med-gy f-med rhombic, ch; <5% wh & tan ds
- 6130-40 Dil, med-gy, f-med rhombic, Tr (20%) tan & dull smoky gy ds ch
- 6140-50 Dil, med-gy, vf -f rhombic, 1% tan ds ch
- 6150-60 Dil, med-gy, to br-gy, vf to med-rhombic; 5% wh, tan, br-gy ds ch; tr vf doler rhombic tan ch.
- 6160-70 Dil, br-gy, f-med rhombic; tr milky wh ch
- 6170-80 Dil, br-gy to med dk. gy, f-med rhombic, ch <5% wh & tan (some mixed) ds; some vf doler rhombic; to dull smoky gy ds

842

- 6180 - 90 Dol, br-gy to med-gy, f-med rhombic;
ch: 5% milky wh & tan
- 6190 - 6200 Dol, br-gy to med-gy f-med rhombic;
little if any ch
- 6200 - 10 Similar; trace milkn only
& tan ds ch
- 6210 - 20 Dol, dull br-gy, f topped rhombic
tr tan & dull smoky-gy ds ch:
- 6220 - 30 Dol, dull br-gy, f to med rhombic;
ch: < 5% tan, br-gy, & dull
smoky-gy ds ch
- 6230 - 40 Similar
- 6240 - 50 Similar
- 6250 - 60 Dol, br-gy, f-med rhombic;
ch: tr tan ds ch; tr
wh w/ dolo rhombic ch
- 6260 - 70 Dol, br-gy, f-med rhombic;
ch: 5% tan ds, wh w/ f
dolo rhombic; wh w/ tan ools
- 6270 - 80 Dol, br-gy w/ to f rhombic;
ch: ~~5%~~ trace wh to
tan-wh, oolitic, oolitic,
to f dolo ~~rhombic~~ dolo rhombic

842

- 6280-90 Dol, br-gy, vt to med rhombic;
some wh sil matrix around
rhombs; little if any cl
- 6290-6300 Dol, br-gy, f to med rhombic;
trace of milky wh vt dol rhombic
clust
- 6300-10 Dol, br-gy - f to med rhombic;
tr tan ds cl
- 6310-20 Dol, br-gy, vt - f rhombic;
< 2% tan & milky wh ds cl
to vt dol rhombic wh cl
- 6320-30 Dol, lt br-gy to br-gy
vt to f rhombic; little
if any cl; wh xll dol in vugs.
- 6330-40 Similar
- 6340-50 Similar
- 6350-60 Similar
- 6360-70 Similar
- 6380-90 Dol, dull br-gy to med-gy vt to
f rhombic; tr wh xll dol
- 6400-10 Dol, med-gy, ^{to br-gy} f - med rhombic,
tr wh ^{xll} dol; tr d R-gy clayey?
layers
- 6410-6420 Similar

042

6420-30 Dol, med-*gy* to br-*gy*, f-rhombic
tr wh xlla dol; tr tan
to dull smoky *gy* ds cl

64
~~64~~ 30-40 Dol, med-*gy* to br-*gy* f-rhombic
obvious reddish-brown "stain" on end is
several
some pieces - probably natural

64
~~64~~ 40-50 similar; tr tan ds cl

64
~~64~~ 50-60 Dol, br-*gy*, vf to med rhombic
tr tan ds cl; some red-brown color

64
~~64~~ 60-70 similar

64
~~64~~ 70-80 similar; tr ^{med-}lt-*gy* ds cl

64
~~64~~ 80-90 Dol, lt br *gy* to br *gy*, vf-f rhombic
ch; tr - lt-*gy* & tan (some mixed)
trace wh f dol rhombic cl

6490-6500 Dol, lt-br-*gy* to med-*gy*, vf-f rhombic
tr pyrite; cl - trace (1%)
dull smoky *gy* & dk-*gy* ds

6500-10 Dol, lt-br-*gy* to med-*gy* f-rhombic;
scattered rd & fr med sol. ~~gr~~
ch; little ip any

6510-20 Dol, br-*gy*, f to med rhombic;
sl trace f-med sl; no ch.

6520-30 Dol, br-*gy*, vf to med-rhombic;
tr (1%) tan to smoky-*gy*
ds cl

842

6530-40 Dol, br-gy v f to f rhombic;
scattered f-med rd & fr sd
trace tan ds ch

6540-50 Dol red-br to lt br gy, ^{sandy} v f f rhombic; ^{br}rd & fr f-c sl;
Ch; little if any

6550-60 30% red-br sd dol as above
70% med-gy to br-gy f-med
rhombic dol - no ch

6560-70 Dol, med-gy ^{dk} to br-gy, f-med rhombic

6570-80 Similar; tr tan ds ch

6580-90 Dol, lt br gy, sandy, v f-f
rhombic; scattered rd & fr
f-med sd - some dolitic ss
Ch; 2% wh to lt-gy
f-med sdy & ool - many
sd centers of ools.

6590-6600 Dol, red-br to lt-br-gy
v sandy, v f to f rhombic;
much rd & fr f-c sl; some
dolitic ss;

6600-10 dol, dull br-gy, v f to f
rhombic; some sdy dol as above
Ch; 2% tan dense

842

6610-20 Dol, dull br-gy v f to med rhombic
f lt-br-gy v sdy to sdy f-rhombic
dol; v f to med rd of fr sd
2% tan ds ch

6620-30 Dol, lt br gy v f rhombic,
ch; < 10% tan to wh ds

6630-40 Dol, lt br gy to med-gy
sandy, v f-f rhombic.
Scattered f - to med rd of fr sd
ch; < 5% tan densel

6640-50 (55) lt br gy, dolitic,
~~stratoceras~~, f-med gr, tr c;
Chert; tr wh w/ br ools

6650-60 (30% ss) wh to lt-br gy,
dolitic, f-med (tr c) grained
60% Dol, lt-br to med-gy
st sdy (f-med) v f to f rhombic
10% + ch; wh to tan ds

6660-70 Dol, med-gy to br-gy vt to f
rhombic, 20% lt br gy
f to med gr dolitic ss
ch; < 5% med lt-gy to
tan ds

842

6670-80

Dol, br-gy & med dk gy
sl sdy (f-med) v f-frankie
20% dol to sil & ool

lt-gy f-med gr ss

Ch; wh med ool & sdy

Ch grades into ss, tr bands ch

6680-90

(ss) lt br gy, rdolc, sil,
f-med (tr c) gr; < 5 ch

wh to tan ds ch; wh sdy ch

6690-6700

(ss) as above (10%)

Dol, dull br gy v f-frankie

5% wh to tan ds ch

6700-10

Dol, med-gy to br-gy, sl sdy

(f-med) f-frankie

Ch: < 5% tan dense; wh w/

f-med sil & med br ools --

poorly developed

6710-20

Dol, lt br gy ^{sl sdy (f-med)} v f-frankie

Ch < 5% wh & dull smoky

gy ds; tr wh v sdy

6720-30

Dol, lt-br gy & med-gy f-frankie

f-med sdy in a few pieces

little if any chert

842

6730-40 Dol, med-gy to brgy, ~~clayey?~~
^{the darkening}
upper 5; r f - f gray.
little if any chert.

6740-50 As above - 30%
70% Dol, lt-brgy sandy
f-gray; rd & fr f-m sd in
dol & some dolie ss.
Chert; 15% mostly ^{minky} wh w/
well developed ^{br} f to med ~~to~~ ools,
many with sand centers

6750-60 Dol, lt-brgy to brgy
sl f-m sdy, f-med rhombic;
Some ^(5%) lt brgy dolie f-med gr ss
some c grs;

Ch; 20% mostly dull smoky-gy
ds; ~~some~~ ^{tr} wh w/ brools -- sd
centers -- ~~probably from above~~

6760-70 Much as above; some tandsch,
more wh ds ch w/ brools --
sd centers; some clastic & sandy
debris in clear silica.

6770-80 Dol, br-gy to med-gy, rsl sdy (f)
f-med rhombic; ch 5%
dull smoky-gy ds; wh w/ med
brools, sand centers

842

- 6780-90 Dol, med-gy to br-gy f-rhombic;
f-med rd & fr sd in a few pieces
Ch; 2% wh w/ br ools & f-med sd;
dull smoky gy ds
- 6790-6800 Dol, lt br gy to brgy vt-f rhombic
a few pieces w/ f-med sd
Ch; < 2% dull smoky-gy ds;
wh, earthy, in part f-rhombic.
- 6800-6810 Similar; Ch 1% tan & wh
ds; tr wh w/ tan med ools.
- 6810-20 Similar; sl more sand
- 6820-30 Dol, lt brgy to br-gy, sl sd, vt-f rhombic; f-med sd
in several pieces; little
or no Ch
- 6830-40 Similar (some red-br)
- 6840-50 Dol, lt brgy to br-gy, sl sd, vt-f rhombic; f-med rd & fr
sd in several pieces
Ch; 5% wh w/ br med ools -
sd centers & brown w/ br
med ools w/ wh centers
- 6850-60 Dol, lt-br gy, sl sd, vt-f rhombic
Ch; 5% red-br non-dolic sl, ^{archystron}
f-med sd in several pieces; Ch; 5% +
wh & tan ds, oolitic tofsdy.

842

6860-70 Dol, lt brgy to med. g of sl sdy
vf & rhombic; tr f-med sd;
5% med - br slake or clay stain
Ch; tr (1%) wh ~~collected~~ ~~collected~~
and sandy

6870-80 Dol, lt-br-gy, sl sandy to sandy,
vf-f rhombic; f-c rd & fr
sd concentrated in a few pieces;
Ch: 5% wh w/ br med eals
& f to c sd.

6880-90 Similar

6890-6900 Dol, lt-br-gy vf-f rhombic
Ch; 10% wh w/ br med eals;
wh & tan ds ^{5%}

6900-6910 Similar? ~~to 70~~ Ch

6910-20 Dol, lt-br-gy vf-f rhombic
scattered f-c rd & fr sd;
Ch; 1% wh & tands

6920-30 Similar - only a trace of wh ds Ch

6930-40 Dol, lt-br-gy ^{sl earthy} sl sdy; vf-f rhombic;
f-c sd, mostly in a few pieces,
some free c grs - rd & fr;
Ch: tr wh earthy

812

6940-50 Similar to above

6950-60 Dol, med lt-br-gy to br-gy
v sl sdy, rf-f rhombic;
f-m sd in a few pieces; free m-c sd;
Ch: $\frac{2}{3}$ % tan to wh ds

6960-70 Similar; tr wh ch w/br
med oolts

6970-80 Dol, lt-br-gy to br-gy, sandy,
v f-f rhombic; f-c rd & fr
sd in many pieces -- some free;
Ch: < 5% tan & smoky-gy ds

6980-90 Dol, lt-br-gy to br-gy sl sdy
rf-f rhombic; wh sil
matrix common = f-dol rhombic;
scattered f-med sd; Ch: 10%
tan and smoky-gy ds to
f-med sdy,

6990-7000 Similar -- v dol rhombic

7000-10 Dol, lt-br-gy, siliceous
(dol rhombic) f-med rhombic;
wh sil matrix in most pieces;
Ch: 20% wh to tan ds
free c rd & fr sdy

- 700 - 7020 Dol, lt-br-gy, to br-gy sl
sil (in part doleritic) 25 - f
rhombeic; ch; little other
than wh matrix.
- 7020 - 30 Dol, br-gy, sl sil (doleritic
in part, rf - f rhombeic, f-m sd
in some pieces & fine c rd & fgs;
ch; wh to clear of br nodules
& f-med sd; tr tan ds
- 7030 - 40 Dol med lt-gy, rf rhombeic
only trace of sd & ch is above
- 7040 - 50 Dol, dull br-gy, rf-f rhombeic
2% wh & tan ds ch; tr wh
w/ br nodules
- 7050 - 60 Dol, dull br-gy, rf-f rhombeic
ch; 20% wh ^{fine} ds
- 7060 - 70 Similar - 10% ch
- 7070 - 80 Dol, dull br-gy, ^{sl-sil (f-m)} rf-f rhombeic
<2% wh & tan ds ch
- 7080 - 90 Similar but more f-m sd
tr wh & tan ds ch
- 7090 - 7100 Dol, lt-br-gy to br-gy sl sil
(f-med) rf-f rhombeic
trace of tan ds ch

847

7100-10

Dol, dull br-gy, sl sdy,
f-med rhombic; ~~fr~~ f-med
sd in some pieces; br
^{tan}
~~br~~ & wh ds ch

7110-20

Dol, dull lt-br-gy, sandy,
vf-f rhombic; rd & fr
f-med sd (tr c) in
many pieces; Ch - little it em.

7120-30

Similar - sl more c sd.

7130-40

Similar dol sl darker

7140-50

Dol, lt br-gy to br-gy
f-med rhombic, f-med sd
in lt br dol; Ch; 5% wh
w/ tan med ools, wh w/ wh
med ools; some f sd centers

7150-60

Dol, lt br-gy sl sdy,
vf-f rhombic; rd & fr
f-med sd in some pieces;
Ch; 15% mostly wh w/
br-med ools & wh w/ wh
med ools; some sd centers.

7160

~~51~~ - 7170

Dol, br-gy, v sl sdy, vt-f
rhombic - - fr med rhombs;
f-med rd & fr sd in a few pieces
Ch; 5% wh w/ wh & tan ools
& some f-med sd; tr tan ds

842

7170-80

Dol, lt-br-gy to br-gy, sl sdy
to sdy (f-med), v f-f rhombic
Ch; < 5% wh & tan ds;
wh w/ tan & wh med ools &
f-med sd

7180-90

Dol, dull lt br gy, sl sdy
(f-med) v f-f rhombic;
Ch; to wh w/ f-med sd

7190-7200

Dol, dull br-gy, v sl sdy
(f-med) v f-f rhombic;
Ch; < 5% wh, tan, smoky-gy ds

7200-10

similar; < 5% Ch. to
wh w/ br small ools; mostly
wh & tan ds

7210-20

Dol, br-gy, v f-f rhombic
some med; Ch; 25% wh &
tan ds, wh w/ tan ^{med} ools;
wh w/ f-med sd; wh w/ small
dol rhombs

7220-30

Dol, lt br gy, v sl sdy (f),
v f-f rhombic; Ch; 5%
wh & tan ds; wh w/ tan
f-med ools

842

- 7230-40 Dol, dull lt to med br gy,
vs1 sdg (f-med), vt - med rhombic;
chl; $\leq 5\%$ wh & tan ds
- 7240-50 Similar; only sl trace of sd
- 7250-60 Dol, dull br gy, sl sdg,
(f-med) vt - f rhombic;
chl; $\leq 5\%$ wh & tan ds
- 7260-70 Dol, lt br gy to br gy, sl sdg
(f-med) vt - med rhombic;
chl; 5% wh to tan ds
- 7270-80 Similar
- 7280-90 Dol, dull lt to med br gy,
f-med rhombic; chl; $\leq 5\%$
wh, tan, brown ds
- 7290-7300 Similar, $\leq 2\%$ chl
- 7300-10 Dol, dull br-gy, f-med rhombic;
chl; $\leq 5\%$ mostly wh w/ ^{med}
br,ool (some banded)
- 7310-20 Dol as above
chl; 5% wh ds - - (gtz all on ched)
- 7320-30 Dol, lt br gy to br-gy
f-med rhombic;
chl; 2% wh ds, gtz in
fractures

842

7330-40

Dol, lt brgy to brgy f-mul
rhombic; much wh xlla dol
Ch; little if any

7340-50

Similar - wh xlla dol & clear
qtz xlls.

7350-60

sh-
red-br

Dol, lt brgy f-mul rhombic;
ylla wh dol; clear qtz; tr red-br sh.

7360-70

Dol, lt-brgy vf-f rhombic,
Ch; 20% wh ds to wh
w/ banded tan or wh large ools

7370-80

Similar - < 5% Ch and
only poorly developed ools

7380-90

Dol, lt to med br-gy, vf-f rhombic;
Ch; 5% wh ds to earthy,
wh w/ unusually well developed banded
tan to wh med ools - many w/
tan centers, wh ring, tan exterior
clear qtz

Extra thin
ools in Ch

7390-7400

Similar; sl > 5% Ch -
ds to earthy wh + wh w/
well banded ools

7400-10

Dol, lt-br-gy, vf-f rhombic;
Ch; 2% wh ds; tr clear
f-sdy qtz.

842

7410-20

Similar to above

7420-30

Dol, dull lt to med br-gy,
rf-f rhombic; ch-
very little - 1 piece wh col
as above - - probably slump

7430-40

Dol, lt-br-gy, rf to f rhombic;
little if any ch

7440-50

Similar; tr clear gtz.

7450-60

Dol, med lt-gy to lt br-gy
f-med rhombic - "clean" dol
ch - 1 piece col as above -
probably slump - also
trace med-br sg - slump

7460-70

Similar clean dol; red sl. slump

7470-80

Dol, lt-br-gy, rf to f rhombic;
f med lt-gy rf rhombic dol
no ch

7480-90

Dol, lt br-gy, f-rhombic,
clean.

7490-7500

Dol, lt-br-gy, f to med
rhombic; clean; tr f gtz xlls.

7500-10

Dol, br-gy, f to med rhombic;
tr red-br ds ch

7510-20

Similar^{dol}; tr clear gtz xlls;
tr tan ds ch

842

- 7520-30 Dol, dull br-gy, vt to
med rhombic; little if any ch
- 7530-40 Similar
- 7540-50 Dol, dull br-gy f to med rhombic
Ch - 1% wh to tan ds
- 7550-60 Similar
- 7560-70 Similar - only a trace of ch
- 7570-80 Dol, dull br-gy vt - med rhombic
ch; tr tan ds to scoliteid.
- 7580-90 Dol, br-gy, siliceous (s/d rhombic)
f to med rhombic; ch - little
if any except wh matrix
- 7590-7600 Similar
- 7600-10 Dol, br-gy, sl sil (dolorhombic)
m-rhombic; ch - little except
wh silicea matrix; wh xll dol
- 7610-20 Similar
- 7620-30 Dol, br-gy, f - med rhombic,
little if any ch; wh xll dol
tr clear gt7
- 7630-40 Similar
- 7640-50 Similar; tr yel - br earthy
chert
- 7650-60 Dol, dull br-gy vt - m rhombic
ch - 2% fands; wh faintly
med scoliteid

842

- 7760-70 Dol, dull med-gy, vf - m rhombic;
tr wh gtz masses?
- 7770-80 Dol, dull br-gy to med-gy, vf - m rhombic
~~tr~~ tr wh gtz masses;
cl; tr tan ds
- 7780-90 Dol, as above; cl - 5% cream
ds - in part f dol rhombic
- 7790-7800 Dol, dull br-gy, vf to med rhombic.
cl; 5% + cream to br-gy ds
blends with dol
- 7800-10 Dol, dull br-gy to med-gy, vf - f
rhombic; gtz xlls; slt cr ds cl
- 7810-20 Dol, as above; tr wh f-dol rhombic
cl
- 7820-30 Dol as above, little or no chert
- 7830-40 Dol, dull br-gy, vf - med rhombic;
tr gtz xlls
- 7840-50 Dol, br-gy, m - rhombic
tr gtz xlls
- 7850-60 Dol, br-gy f - m rhombic
- 7860-70 Dol, lt br-gy to br-gy f - m rhombic.
tr gtz xlls
- 7870-80 Dol, lt to med br-gy f - m rhombic.
- 7880-90 similar - xlla dol
- 7890-7900 Dol, med-br-gy, m rhombic

842

- 7900-10 Dol, dull br gy, vf to med
rhom bic
- 7910-20 Dol, br-gy to med-gy, vf-m rhombic
- 7920-30 Similar
- 7930-40 Dol, br-gy, m-c rhombic
- 7940-50 Similar; some wh to clear xll dol
- 7950-60 Similar " " " "
- 7960-70 Similar ^{to pinkish-gy}
- 7970-80 Dol, lt br gy (cream) m-c rhombic
very clean xll dol; to clear
dol xlls
- 7980-90 Similar; clusters dol xlls
- 7990-800 Dol, cream, med to c xll
rhombic; very "clean",
- 8000-8010 Similar
- 8010-20 Mixture 50% as above
50% Dily br gy m-rhombic;
may be sl clay-y
- 8020-30 Similar mixture
- 8030-40 Mixture, but $\frac{2}{3}$ cream;
Some pieces are half & half, suggesting
interbedded cream & br-gy
- 8040-50 Dol, cream, med to c rhombic;
Clean; only a trace of
br-gy

842

- 8050-60 Dol, cream, med-c x/ly
- 8060-70 Similar
- 8070-80 Similar -- a few pieces of
br-gg to med-gg clayey?
med-rhombic dol
- 8080-90 Similar -- only a trace of
darker dol.
- 8090-8100 Similar
- 8100-10 Dol, lt-br-gg (cream) m-c rhombic
trace of f darker (clayey?) med
rhombic dol, (some pieces 50-50)
- 8110-20 Similar
- 8120-30 Similar; 10% darker dol
- 8130-40 Dol, lt-br-gg (cream) m-c rhombic
20% red-br to lt br-gg (sl clayey?)
v f to med rhombic dol.
- 8140-50 Dol as above, mostly cream;
tr med-gg dol; tr red-br
(clay-stained?) dol
- 8150-60 Similar
- 8160-70 Dol, (cream) lt-br-gg, ^{60% rhombic-gg} m-c rhombic;
only a trace of other lithologies
- 8170-80 Similar -- a few pieces of
darker dol - clayey? - f-med rhombic

842

8180-90 Dol, lt-br-gg to pinkish-gg, m-c rhombic; ^(creamy)
sl tr darker dol

8190-8200 As above; 10% darker dol
w/ v s-s rhombs & tr red clay -
may be from above

8200-10 Dol, lt-br-gg to pinkish-gg, m-c rhombic
only a trace of finer ^{than} darker dol

8210-20 Similar -- sl more of darker dol

8220-30 Dol, med-gg, sl clayey, f-c
rhombic; v thin partings (?) of
dk-gg clay, some attached to
cuttings of dol.; Residue of clay? Flakes
30% creamy rhombic dol as above

8230-40 Similar, only 10% creamy

8240-50 Dolomite, lt-br-gg to br-gg,
f to med, rhombic; sl clayey
(mostly dk-gg, but hint of red-bruish)
in part, but mostly good dolomite

8250-60 Dol, br-gg, v f to med-rhombic;
hint of red-br clay in some
pieces

8260-70 Dol, br-gg, f to med rhombic

8270-80 Dol, lt-br-gg to br-gg, f-m rhombic

8280-90 Similar

8290-8300 Similar, but average not as
dark as above

842

8300-10 Dol, lt-br-gy to br-gy f. to med-rhombic; tr clear gtz xls

8310-20 Dol, lt-to med-br-gy, v f-f rhombic; trace wh^{xlls} dol

8320-30 Similar

8330-40 Dol, lt to med br-gy, v f - med rhombic

8340-50 Dol as above; much wh xlls dol

8350-60 90% as above

10% Dol, red-br, porous, sandy, v f-f rhombic; rd & fr f-med sd; clayey = water zone? clear

gtz xlls; 1 piece lt-br dscl

8355 = TOP of F clusters

8360-70 Similar, mixture of mostly ①; dol, lt-br-gy, sl glauc (bright green) f to med rhombic; trace of gtz xll clusters; may be some f sd; one free ool

②. 20% dol, red-br, f-med sd; v f-f rhombic; looks clayey, silty, "weathered", fr wh earthy chert:

842

8370-90 20% del lt-br-gy f-rhombic
50% del, br-gy, silty?, f-rhombic;
30% red-br silty, sl glauc,
f-c sdy v f-rhombic del -
porous, leached; tr wh ds &
wh earthy ch

8390-8400 - 3 types of dolomite as above
"weathered, glauc in sdy del,
tr c clear qtz xls;

Ch: 20% mostly ds wh, much
of which is ~~is~~ has very well
developed white oolites; some

D.I. 8393 (E-log)
Ls f-c sd, partly ss centers

8400-10 Ls, 30% del, lt-br-gy v f-f rhombic;
Ls, red-br, ^{to gel-br} r clazeg, f-gran;
in part thin claystone; some lt-gy
v f gran (almost chalky in part) Ls
2% tan ds ch

8410-20 Ls, med lt-gy to lt olive-gy
v f gran; little if any del or res
chalky-wh where bruised
Also, del & tan chert ss
there - probably from above

842

- 8420-30 Ls, med-lt-gy to lt-olive-gy
vf-gran to ds; red-br particles - weathered
glauco, silt?, clay?
- 8430-40 Ls 2s above; $\frac{1}{2}$ of dol decreases
with depth
- 8440-50 Ls, med-lt-gy to lt-olive-gy, vt gran;
Real, silt-sized red-brown particles of unknown
shape = "weathered" glauc?
- 8450-60 Ls, med-lt-gy to lt-olive-gy, vt gran,
trace of dk-gy clay? Figures
mottles some pieces that are almost
pelletal or clastic; ~~little res~~
in acid, dk-gy films ^{made up of} suggest
"cells" ^{or king heads} in part - grap tomites; little
other Res
- 8460-70 Ls, lt-olive-gy to med-lt-gy, vt gran
- 8470-80 Similar dolite
- 8480-90 Ls, med-lt-gy to med-gy, ^{vt rhombic!}
sl pelletal; darker part contains
much silt-sized qtz -- and
vt rhombic dol -- probably some clay
- 8490-8500 Ls, med-lt-gy to med-gy,
clayey, silty, ^{dolite} vt gran
Resi

842

8500-10 Ls, med lt-gy to red-br, to med-gy,
silty, v f gran to ds; to dol in
f-rhombz in the ls; Res; red-br
silt or clay

8510-20 Similar; tr red-br clay
Res; red-br silt or clay

8520-30 Ls, med lt gy, lt br gy & med-gy
silty, sl dolie, f-gran;
red-br silt or clay aggregates
or masses scattered through ls;
some are rounded & suggest oolites
that have been altered to clay?

8530-40 Ls, med lt gy, mottled w/ red-br
in part, clastic? to pelletal?
sl dolie f-gran; well rounded, ^{but mostly unbande} c-ool's
in some pieces along with silty, dolie?
red-br ^{irregular} masses of about the same size
as the ools - all in med-lt-gy
f-gran to v f rller matrix; some
pieces are non-ool but dolie & silty
tr pyrite.

842

8540-50 Ls, med-lt-gy to sl lt-br-gy
pelletal to sl ^{med} ooliteid, v f gran
only a trace of silt & little if
any dol; hint of v f gtz xls
(silt-sized) in ls.

8550-60 Ls, med-lt-gy to lt-br-gy, dolie,
ooliteid, v f gran; some well
rounded ools, other irregular
masses outlined by a thin "shell"
of silt ~~and~~ dol -- some with
internal "shells" or bands; saw pieces
v dolie & silt?.

8560-70 As above; some ools have
sl yellowish pinpoint centers?

8570-80 Ls, med lt gy to red-brown
med-ooliteid, ~~of~~ sl dolie,
v f ~~thin~~ gran; abundant ools
in almost every piece, many of
which are recrystallized -- to
v f rhombic dol(?); others show hint
of original banding

842

8580-90 Ls, med lt-gy to reddish-brown,
oolitic to oolitic, st. dol. v. gran;
ools and oolites well developed
in most pieces, some f-mul,
some v. coarse; centers of most
are recrystallized to dol(?) but
many still show banding; ools are
red-br in many pieces, but also
^{grade} change to med-lt-gy within a
single piece.

8590-8600 Ls, med lt-gy to med dk-gy,
oolitic (in part), silty (in part)
v. gran; well developed but
largely recrystallized, f-mul in
the lighter ls; silt in the
darker ls; ^{Revised} dk-gy clayey
aggregate.

8600-10 Dol, lt-br-gy (common) f-mul
rhombic; some darker dol up to
f-sd; not a piece of
ls noted. E-log indicates a
change to dol, but abrupt change
from ^{nearly} 100% ls to nearly 100% dol
suggests ~~improper~~ non-representative sample.

842

8610-20

Dol, H br-gy to mid-gy
vf to mid-rhombic; darker
part is sl clayey; (trace
of ls, but rare in this
sample); Tr f sdy dol

8620-30

Similar; tr f-med sdy
dol

8630-40

Similar; tr vf pyrite,
tr dk-gy clay parting; no
scud noted

8640-50

Similar - clean dol, no sd

8650-60

Similar, clean dol, no sd

8660-70

Similar, clean dol, no sd

842

8670-80 Ls, lt br gy to med-gy
sol, tend, clastic, r f gray

Abrupt change from dol to ls
suggests sample is not representative

8680-8685 Dol, lt-br-gy to br-gy
f-med rhombic; some
red-br R-rhombic "weathered"
dol in separate pieces and
attached to normal pieces
Tr red-clay ^{flake} res

1 hr circ Similar -- mostly
8685 clean dol w/ trace of
red coloring

B42

Circ 2 Hrs

♂6♂5

Similar; some f-red
sd in red-br dol & some
w/ & smoky gy ds Ch
(From above)

Circ 3 hrs

♂6♂5

Similar - fr ch, etc from
above.

TD - ♂6♂6 Drlr

♂6♂2 sculum

Emmerson Boring

Bowling - Moose Lodge

~~NE NW NW Sec 35, T 14N, R 6W~~

SE SW SW Sec 26, T 14N, R 6W

Ground level 645'

- 0-10 Chert, red-brown, weathered,
decalcified, dense to earthy
- 10-20 Chert, yellowish-red, weathered,
dense to earthy
- 20-30 Chert yel-brown, weathered
dense to earthy
- 30-40 Chert yel-br to olive-gy
to lt-gy, ds to earthy
- 40-45 Ch, yel-br to lt-gy, mostly
ds, some earthy
- 40-45 Similar
- 45-50 Ch yel-br to red-br
mostly ds, some earthy
- 50-55 ^{similar} Ch, wh to lt gy, weathered,
earthy in part but mostly ds
- 55-65 Ch, lt-gy, weathered yel-br
to honeycomb to ds
- 65-70 Ch as above to gr-gy
BRASS clay w/ s-med sd grs
Lin sample marked Red (60-70)

Boling - Moose Lodge

70 - 73 Chert, lt. gy, earthy, ^{f.} honeycomb
chatt weathered to lt. gy ds

mbx 70
chatt 73
DP

sh, dk-gy, fissile;
tr lt gr-yy sh

73-75 Much as above, tr dk-yy sh,
tr gr-yy f-sols sh (looks
the same as that 2 samples above)
much lt-yy weathered honeycomb
ch; some lt-yy ds sh.

75-80 Ch lt-br gy to lt purple gy
ds

80-85 Ch, lt-yel-br earthy, wh ds,
lt purple gy ds; tr lt br gy to
br-yy sh ^{or lighty} ^{"granular"} ~~dot~~ ^{perovus} ch -
tiny dot rhombs mostly sealed
in ch

85-87 Ch, lt yel-br weathered earthy;
lt purple-yy ds, wh ds;
more pervous ch is st finny
& st dot

Boling - Moose Lodge

87-90

Chert, lt purple-br, dense,
lt-brgy granular, earthy,
sl limy & dolic

90-95

Ch, dull lt-gy, limy,
granular; rapid reaction in
acid, but not prolonged

R: lt-gy siltsiltags - ^{in part} can be
crushed with a pick, but some more firm.

95-100

95-100

~~Ch~~, lt-br-gy to smoky
purple-gy dense;
lt-gy sl limy to limy (dolic?)
granular ^{silt} etc; Res - wh siltsilt
can

100-105

Ch, purpleish smoky gy,
ds, 30% lt-gy sl limy
to limy granular siltstone

105-110

silt, med-lt-gy v limy,
granular, ^{pyrit} Res, lt-gy siltsiltags -
Can be crushed with
a pick.

110-115

silt as above 70%

silt 113
5

30% ls, br-gy, glauc, foss
lc-vllv, blue-gr glauc; brackes,
etc; some clear calcite

Boling - Moose - Lodge

- 115 - 120 Ls, lt-gy to br-gy (some of each) v glauc, VC-Xll₄; much bright ~~gr~~ blue-green glauc, brachs, crucoids, etc; pyrite
- ~~120 - 125~~ Res - glauc & pyrite
- 120 - 125 (9) wh { No lt-gr sh as below; red-br frags frags in lighter matrix, in part - Res of red-br frags & sil
- 125 - 130 Similar - ~~some~~ greenish gray clay, in part glaucritic does not look like ~~casim~~. First trace of chert br-gy, lt-gy with mottled; fossiliferous
- 131 - 135 Ls, med med lt-gy to lt br-gy, glauc, VC-Xll₄, pyrite; brachs, etc;
- ~~S~~ 134 25% chert, mottled lt-gy to br-gy foss, ds; many skull fragments - ost? or tiny brach? bryozoans - looks like a dwarf faun
- ~~135 - 140~~ First appearance lt-gel-gr sh = Casim
- 135 - 140 Ls & chert as above
- ~~S~~ 139 10% clay, gel-gy to gr-gy First appearance red-br weathered clinker or flag type iron stained siltstone = "weathered" casim on OF?
- 140 - 145 Ls, lt br-gy, ~~glauc~~ Probably little if any glauc in - VC Xll₄; Trace gr-gy clay + rebr to gel-br glauc, sils, weathered sils = clinker
- 145 - 150 Similar, little clay - definitely OF-type Ls

Boling - Moore Lodge

150-155

lg, lt br gy ^{to pinkish gy} m-c xlls; some of
sub perhaps most of coarse xlls are
~~glance~~ columnals; some probably from stone

155-160

Similar lg, reddish-br to
lt-br-gy (sl weathered) liss, m-c xlls,
columnals, brachs, bryozones; no glance
seen in larger pieces that are of type
, some bbl-shaped

Some fine crin = weathered but still calcite

160-165

Similar - calcite xlls mostly
drilled free - still many
free "weathered" or etched columnals,
but samples in general look
a little fresher & ~~are~~
lighter in color.

165-170

NS

170-175

lg, lt br, lt pink, ^{fresh} w/ xlls
(all mottled) m-c xlls; fresh;
tr pale-green glance

175-180

Similar - still a hint of
red-br weathering

180-185

lg, lt-br-gy med-xlls; fresh
pink xlls, some of which are
columnals; tr ~~not~~ ost

Boling - Moose Lodge

185-90 Ls lt br-gy to pinkish-gy
m^e-xlln; pink xlls, some are
columnals; tubes;

190-195 Similar, progressively lighter
downward but still some pink xlls
two fine dk-gy gast - could
be from zone; trace glauc

195-200 Similar - sl coarser xlls
& many pink xlls; one
surface = gr-gy clay or
glauc covered + ting dk-gy
gast & much pyrite.

200-205 Ls, pale pinkish to lt br-gy
m-c xlln; pink columnals

205-10 Similar - tr pyrite.

210-15 Similar; tr foss frags, ost?
gradually changing to m-xlls of
calcite in lt-gy of xlls matrix

215-20 Similar; Res-sl trace of glauc & pyrite

220-25 Similar - drilled to xlls;

225-30 Ls, pale lt-br to pinkish wh
m-xlln; drills to xlls
R; quite a bit of lt-gy cloudy ch;
Some earthy, yet-gy silica; lt sdgr??

OF 225+
OK

Boling - Moose Lodge

230-35 Ls, lt-br-gy, cream, f-xlln,
<10% lt-br-gy cloudy, sl porous
subtransl ch

° 235-40 Ls, lt-br-gy (pale cream),
f-xlln; xls not obvious in
bone these v f samples unless each
piece is 2x11. Appears to be ut-f
<5% lt-br-gy sl lining
cloudy to porous subtransl ch

240-45 Ls, similar; <5% ch
tr f-rhomb of dol

245-50 similar, less than 5% ch

250-55 similar, quite a few f-rhomb of dol
~~<5% ch~~ 20% ch

255-60 Ls, similar; sl dolc; <5% ch

260-65 NS

265-70 Ls, v lt br to pinkish-gray
v f - med xlln; little little
if any dol; sl to lt-gy ch
sl to pyrite

TP-270 in OK