

- ① Pure - Mc Collum ✓
- ② Phillips - Copeland #1 ✓
- ③ Stephens - Albert Estate ✓
- ④ Continental - Sorrels logged
- ⑤ Carter - Bahner - 12-8N-14W
- ⑥ Humble - Kaufman logged
- ⑦ Ark - LA - L E, Darling logged
- ⑧ Peyton Creek - core 5-9 (upper part)
(see other book for total)

Well Samples
Keep

The Pure Oil Co
M.L. McCollum #1

C SW SE Sec. 13, 9N-8W

White County, Arkansas

- 230 - 293 sh, dk-gy, f-mic
- 293 - 300 ss, med lt gy, limy, f-c gr, gls grs
- 300 - 325 ss, med-gy, silty, shaly, ^{mic} f-gr
- 325 - 357 sh, dk-gy, fiss
- 357 - 362 ss, med-gy, silty, rf gr; siderite
- 362 - 377 sh, dk-gy
- 377 - 380 ss, med-gy, shaly, sl limy rf-gr
- 380 - 400 sh, dk-gy, silty (granular), mic
- 400 - 420 ss, med-lt gy, sl limy f-mic, rf-gr
- 420 - 30 ss, lt-gy, limy, f-med-gr; conch,
friable
- 430 - 40 ss, lt-gy, limy f-gr; drls free
- 440 - 55 ss, lt-gy, rf-gr
- 455 - 65 silts, dk-gy, mic
- 465 - ~~490~~
492 ss, lt-gy, rf-gr, silty in part
- ~~480 - silts, med lt gy, mic, rf sh~~
- 492 - 502 sh, med-dk gy, silty, mic

- 502-520 ss, lt-gr, ^{sl lim} f-gr; dols free
- 520-592 ss, lt-gr, sl lim, vf gr; dols free
becomes finer grained. + more
silty downward
- 592-618 sh, dk-gr, f-mic
- 618-635 ss, med lt-gr, silty, vf-med gr
- 635-670 sh, dk-gr, f-mic
- 670-675 ss, med-gr, silty, vf to med-gr
- 675-80 ss, lt-gr, vf-f gr; dols free
- 680-718 ss, med-lt-gr, sl lim, mic, f-gr;
sucrose
- 718-735 sh, dk-gr, f-mic, silty,
- 735-45 slts, dk-gr, f-mic, shaly
- 745-755 ss, lt-gr, f-gr; dols free
- 755-62 sh, dk-gr, silty, f-mic
- 762-773 ss, lt-gr, f-gr; sucrose
- 773-78 sh, dk-gr, mic
- 778-85 ss, med lt-gr, vf-gr; dols free
- 785-95 ss, med lt-gr, vf-f gr; " "
- ~~795~~ shaly in lower part
- 795-870 slts, med-dk gr, mic, f-sdy;
grades downward into silty shale

- 870 - 905 - Sh, dk-gy, mic
- 905 - 922 ss, med lt gy, silty, sl limy,
vf-~~fine~~ gr; trace med grs
- 922 - 945 Sh, dk-gy, f-mic
- 945 - 990 silts, med-gy, f-mic; shaly
silts in lower part (970-990)
- 990 - 1035 silts, med-gy, mic, vt sdy, sl limy
- 1035 - 1050 Sh, dk-gy, f-mic, ~~silty~~
- 1050 - 1080 silts, med-dk gy, f-mic, shaly
- 1080 - 1148 Sh, med dk- gy, silty, f-mic
- 1148 - 1180 ss, lt gy, f-med gr, sl limy
- 1180 - 1200 ss, lt gy, siliceous, mic, f-gr
- 1200 - 1218 " " " " f-med gr
- 1218 - 1242 Sh, med dk gy, f-mic, silty
- 1242 - 1252 ss, med-gy, sl limy, f-cgr
crin; siderite
- 1252 - 1270 Sh, med-dk gy, silty
- 1270 - 1310 ss, med lt gy, limy, f-med gr;
crin; grades into sdy
crin ls in lower 15 feet
- 1310 - 40 Sh, med dk gy, f-mic

- 1340 - 55 slts, med-gr, shaly
- 1355 - 1380 shale, dk-gr, fissile; siderite
- 1380 - 1395 ss, med lt gr, silty, limy, f-gr
- 1395 - 1447 slts, med-gr, ^{silty} f-mic, v-sdy
- 1447 - 1465 sh, dk-gr, f-mic
- 1465 - 1490 slts, med-gr, f-mic
- 1490 - 1505 ss, med lt gr, ^{limy} f-f gr,
crin
- 1505 - 1558 sh, dk-gr, f-mic, silty
- 1558 - 1580 ss, med lt gr, ^{silty} f-med-gr.
- 1580 - 1600 ss, med lt gr, limy, med-gr;
crin; trace glauc
- 1600 - 50 ss, lt gr, silty limy, f-med-gr;
drills free
- 1650 - 70 ss, lt-gr, limy, f-med-gr;
crin
- 1670 - 88 ls, med-gr, sdy (f-ngrs)
crin
- 1688 - 1700 sh, dk-gr, silty
- 1700 - 13 ss, lt br gr, v limy, f-gr
crin
- 1713 - 1732 sh, dk-gr, fissile

1732-50 ss, lt-gy, to 1/2 br gy, lim
f-c gr

1750-70 ss, lt-gy, ^{rim} f-and gr - dots free
crin

1770-90 ss, lt-gy, sl lim, f-gr

1790-1808 sh, dk-gy, ^{clayey} ~~fine~~

1808-1823 ss, lt br gy, sl lim, f-and gr

1823-1840 sh, dk-gy, clayey

1840-1890 ss, lt br gy, lim, f-and gr

1890-1920 ss, lt-gy, ^{sl lim} f-gr,

1920-1950 ss, lt-gy, sl lim, f-gr, ^{med} ~~tract~~ ^{scattered}
c-grs & granules

1950-70 ss, med-gy, silty, sl lim
~~f-and gr~~ f-gr

1970-90 ss, med-lt gy, silty, sl
lim, f-gr; scattered m-cgrs

1990-2010 ss, med-lt gy, silty, sl
lim, f-gr; crin

2010-2130 sh, med dk gy, silty; granular
w/cgr qtz silt in part

2130-2370 sh, med dk gy, silty; ~~tract~~
sl siltstone in part; ^{layers} c-gr
qtz silt

- 2370 - 2395 ss, med-gy, silty, vf-med gr
- 2395 - 2405 sh, dk-gy, silty
- 2405 - 2450 s/s, med-dk-gy, vf-sdy, shaly
grades into silty shale in
lower part
- 2450 - 2500 - NS - (Shale - E-log)
- 2500 - 2525 shale, dk-gy, interbedded w/
med-gy vf-sdy s/s
- 2525 - 2572 ss, med-gy, silty, sl limy,
vf to f-gr; dk-gr sh
interbeds
- 2572 - 2810 shale, dk-gy, f-mic, clayey to
vs silty
- 2810 - 2828 ss, lt-to med-gy, limy, vf to
f-gr; trace of siderite
- 2828 - 2870 sh, dk-gy, f-mic, shly (vf-med)
silty, sl limy; siderite
- 2870 - 2890 sh, dk-gy, f-mic, ^{vs limy} silty, sideritic
- 2890 - 2945 s/s, med-gy, f-mic, shaly, vs
limy
- 2945 - 55 sh, dk-gy, f-mic

2955 - 2980 ss, med-gr, silty, sl limy,
v fgr; clay matrix in part;
trace siderite.

2980 - 3120 - sh, dk-gr, f-mic, sl limy,
clayey. splintery fracture

3120 - 3195 sh, dk-gr, limy, silty

TD-3195

VAN BUREN COUNTY, ARKANSAS

C 5E 5E 28

Phillips Petrol

12N 15W

S.T. Copeland 1

14499m

D+A

TD

2543

Com 9-28-61

Comp 10-25-61

Remarks: Base of
Atoka Formation estimated
@ 60' from field recon.

Samples from Ark. Survey

E-log 576 - TD. Logged
by E. Glick

Phillips Petroleum Co

Copeland No 1

SE SE Sec 28, 12N, 15W

Van Buren County, Ark

0-390 NS

390-440 SS, lt br gy, v limy,
f-rc gr; crin

440-455 slts, med-gy, f-mic

455-470 SS, f- to c-gr, (limy);
interbedded w/ med-gy slts

470-550 sh, dk-gy, fissile, v f mic

550 576 sh, dk-gy, fissile, mic, sl silty

5% casing logs of E-log begin

576-738 sh dk-gy, fissile, p-mic

738-7⁵⁵~~60~~ SS, med lt gy, limy, v f-fgr,
crin, brachi; trace med-grs

7⁵⁵~~60~~-773 SS, lt-gy, limy, v f to f-gr;
ost

773-788 SS, med-gy, silty, v fgr;
shale partings.

788 - 808 Sh, dk-gy, clayey
808 - 880 Slt's, med dk gy, mic, limy;
c-gls silt; interbedded w/
sl limy dk-gy clay sh; pyrite
siderite

880 - 1020 Sh, dk-gy, pyritic, sideritic slt's
to limy, fissile.
800 am - June 6

1020 - 1125 Sh, dk-gy, pyritic, limy; little or
no siderite below 1040

1125 - 1135 Sh, dk-gy, v limy; 20% dk-gy
clayey limestone

1135 - 1160 Shale, dk-gy, limy

1160 - 1190 Sh, dk-gy, v limy, finely granular

1190 - 1215 Sh, dk-gy, limy

1215 - 1278 Sh, dk-gy, v limy, pyrite;
trace silty ls

1278 - 1325 Sh, med-dk gy, v limy; almost ls

1325 - 1388 Sh, med dk gy, sl limy, "greasy" to
"sooty"; pyrite.

1388 - 1425 ss, med-gy, v limy, v f to f-gr
beds of med-gy ls, and med-gy slts
limy sh

- 1425 - 40 Sh, dk-gy, v limy; beds of
dk-gy clayey ls; pyrite
- 1440 - 70 Sh, dk-gy silty, sl limy
- 1470 - 87 Sh, dk-gy limy, granular
- 1487 - 1615 Ls, lt br gy, ^{vfxlm} siliceous, ^{30% milk} white
dense chert to limy chert
- 1615 - 1670 Ls, med lt gy to lt gy, ~~dense~~
^{white} f-gran; 50% chert to
limy chert
- 1670 - 1740 Ls, med lt gy, f-gran;
30% limy chert res
- 1740 - 1760 Ls, med lt gy f-gran
60% dense white + sandy
gray chert
- 1760 - 1780 Ls, lt br gy, f-gran to
f-xlly, 30% porous silica res
- 1780 - 1800 Ls, lt br gy to med-gy,
f-gran; 40% ds wh chert
- 1800 - 1820 Ls, med lt gy, f-gran, siliceous;
50% porous silica res, ^{ds ch}
siliceous part

- 1820 - 30 ls med-lt gy f-gran
50% med lt gy ds to limy ch
- 1830 - 1839 ch, lt br gy, translucent, dense
~~trace~~ trace lt br-gy f-gran ls.
- 1839 - 1840 siltstone, ^{go to greenish gy} pyritic, limy ? fine?
(BMS ??)
- 1840 - 1930 ls, med-gy, f-gran;
residue porous chert -
slow reaction in acid
- 1930 - 40 ls, red-brown, f-gran; porous
silica res; slow reaction
- 1940 - 50 ls, med-gy, ^{reddish brown mixed} f-gran
porous silica res
- 1950
- 1970 - 80 ls, lt-gy to lt pinkish-gy
f-gran; porous silica res
- 1980 - 90 ls, med-gy + reddish-brown
f-gran - porous silica res
- 1990 - 2000 ls above but red reddish-br
- 2000 - ~~2020~~ ²⁰¹⁰ " " mostly med-gy
- 2010
- 2020 - 2018 ls, med-lt gy, f-gran
- 2018 - 2019 sh, greenish-gy, pyritic, limy

2019 - 2070 Ls, lt gy, (pink-xlls), med-
c xlls
Plattin

2070 - 2180 Ls, med-gy, dense; med to
c sdy in upper part 1' P
Incepyrite

2180 - 2210 SS, lt-gy, f-c gr;
rd + fr grs; drils free

2210 - 2270^P SS, white, siliceous w/ to fgr
(Poor samples - mostly blk shaly)

2270^P - 2310 Dolomite, med-gy, f-gran
Free Sand, in part - (poor samples)

2310 - 2340 Dolomite, ^{br-gy} fine, sandy, f-gran
(poor samples)

2340 - 20 Dolomite, ^{med-gy} f-gran; free
sand from (poor samples)

2370 - 80 Dolomite, dr-gy, v sdy (f-gr) f-gran

2380 - 2430 Dolomite, dr-gy, dense to
f-med sdy; beds white f-c sd

2430 - 2480 Dol. med-gy, coarse-dk gy,
f-gran to f-med sdy;
pyrite - 2460 gastropod - am?

2480 - 2500 Dolomite, med-gy, f-gran; s/sdy

2500 -

Dolomite, br-gr, f-grain, red-est
grains in dolomite matrix;
trace white f-gr ss.

TD 2540

Stephens Inc

#1 Albert Estate

29-10N-7W

White Co, Ark

51 289

- 10-20 SS, weathered yellowish-br, S-C
gr - Qal in part?
- 20-60 SS, med-gy, v silty v f to
f-gr; interbedded w/ med-gy slts
siderite; free grs of f-csd.
- 60-70 SS, lt-gy, f-rc gr; drills free
- 70-85 ~~SS, med-gy v silty, v f gr;~~
slts, med-gy v f sdy, c-gr
- 85-100 SS, med-lt gy, silty, v f gr
- 100-125 slts, med-gy, v f sdy, c-gr
- 125-150 SS, lt br gy, limy, med-cgr;
gt 3 granst, crin; siderite;
grades into sdy ls in part
- 150-170 Sh, dk-gy, v f mic
- 170-220 SS, med lt gy, ^{limy} v f-fgr; crin
traced med grs
- 220-260 slts, med-gy, f-mic, c-gr

- 260 - 300 Sh above + mid-gy silty mic sh
- 300 - 330 Sh, med-gy, f-mic, silty -
- 330 - 360 Sh, med dk gy, clayey
- 360 - 380 ss, lt br gy, limy, vf-f gr;
foss frags
- 380 - 390 ss, med lt gy, sl limy vf gr
- 390 - 400 silts, " " " " c-gr
- 400 - 430 Sh, dk-gy, clayey
- 430 - 460 ss, lt-gy, sl limy, vf gr;
crin & other fossils
- 460 - 490 silts, med-gy, mic, c-gr
- 490 - 510 Sh, dk-gy, fissile, clayey
- 510 - 530 silts, med-gy, sl limy, ^{vf sh} c-gr
f-mic A
- 530 - 565 ss, med lt gy, sl limy, vf gr
- 565 - 640 silts, med-dk-gy, f-mic, c-gr
- 640 - 660 ss, lt-gy, limy, ^{med} f-gr;
- 660 - 680 ss, lt-gy, sl limy, f-gr -
scattered med - c gr
- 680 - 700 ss, lt-gy, vf ^f gr - drills free
- 700 - 710 ss " " vf-med gr " "
- 710 - 740 ss, lt-gy, limy, vf - c gr

740-60 ss, lt-gr, limy v f^{trf} gr
760-80° ss, lt br gr, limy, med-vc gr;
crin

800-840 ss, lt-gr, f-med gr; drills free

840-60 ss, lt-gr, f-c gr; drills free

860-20 ss, lt-br gr, v f-med gr

870-890 sh, med dk gr, clayey, fissile

890-910 ss, lt-gr, v f-f gr^{shale}; drills free

910-950 ss " " " - c grs^{shale}; drills free

950-60 slts, med lt gr, f-med, c-gr

960-20 ss, lt-gr, f-med gr

970-1010 ss, lt-gr f-vc gr; many

qtz grains; silty in part

8:00 am Sun 7

1010-20 ss, med-lt gr, sl limy, f-gr;
(scattered med-c grs^{oil}? - free).

1020-1070 ss med lt gr, sl limy v f gr

1070-1090 { ss, lt-gr, sl limy, silty^(v-gr grts) f-med-gr }
may be out of place { scattered c-grs }

1080-1110 ss, med lt gr, sl limy silty (c-gr grts)
v f gr

1110-1150 ss, med lt gr, limy, sideritic,
f-vc gr; fossil fragments

- 1150 - 70 ss, med lt gy, sl limy, v fgr
- 1170 - 80 ss, ~~med~~ br-gy, silty, v f-gr
- 1180 - 1220 silts, med-gy, mic, v f sdy, c-gr
- 1220 - 1240 ss, br-gy, sl limy, ^{silty} v f-gr
- 1240 - 1260 silts med-gy, v f sdy, c-gr
- 1260 - 80 ss, br-gy, sl limy, ^{silty} v f-gr
- 1280 - 90 silts, med-gy, v f sdy, c-gr
- 1290 - 1330 ss, med-gy, silty, v f-gr
- 1330 - 40 ss, lt-gy, sl limy, v f-gr
- 1340 - 60 " med lt gy, " " " "
- 1360 - 1390 sh, dk-gy, silty
- 1390 - 1410 ss, med lt gy, ^{silty} f-gr, drills free
- * 1410 - 1440 ss, med lt gy, v f-gr; trace
med-grs; sucrose
- 1440 - 60 silts, med-gy, shaly, ^{f sdy} fine
- 1460 - 80 ss, med-lt gy, ^{imng} silty, v f-gr
- 1480 - 1500 sh, dk-gy, silty
- 1500 - 1565 ss, med lt gy, ^{silty} silty, v f-gr,
interbeds of med dk gy sh
- * 1565 - 1590 ss, lt-gy, sl limy, f-gr;
trace med-grs

- *
 1590 - 1600 ss, med lt gy, f-vc gr
 1600 - 1780 sh, dk-gy, f-mic, clayey, fossil
 silty.
 1780 - 1810 sh dk-gy, f-mic; pyrite, siderite
 1810 - 20 sh above & interbedded med-gy
 silty vf gr ss
 1820 - 1840 sh, dk-gy, f-mic, clayey, fossil
 1840 - 50 sh as above interbedded w/ med
 dk-gy ^{to br-gy} clayey fossil ls
 1850 - 60 sh, dk-gy; interbedded w/
 med-gy silty, limy, f-gr ss
 1860 - 70 sh, dk-gy; interbedded w/ br-gy
 silty, fossil ls; brach, pelecypods
 1870 - 90 ss & sh as above
 1890 - 1900 ns
 1900 - 30 sh, dk-gy, vs/ limy, clayey;
 splintery fracture in part
 1930 - 60 sh, dk-gy, sl limy, sideritic;
 fossil fragments
 1960 - 70 sh, dk-gy, limy sideritic;
 interbeds of br-gy silty
 fossil ls

- 1970-2030 sh, dk-gy, sl limy, clayey, fissile
 pelocypod @ 2000; cylindrical
 fracture in part
- 2030-70 sh, dk-gy, limy, sideritic
 pelocypods @ 2040
- 2070-2150 sh, dk-gy, sl limy, ^{to limy} sl sideritic
 gastropod @ 2100
- 2150-2310 sh dk-gy, limy, sideritic; ~~pyrite~~
- 2310-2330 sh, dk-gy, limy; fossil frags
- 2330-2420 sh dk-gy, limy; granular in
 part
- 2420-2470 A₂ zone & siderite
- 2470-2580 sh, dk-gy, sl limy, clayey;
 trace fossils; ~~trace~~ siderite
 below 2520
- ~~2570-80 sh, dk-gy, sl limy, clayey;
 trace fossils & siderite
 pyritic shale splinters @ 2680~~
- 2580-2750 sh dk-gy to blk, w sl limy, ^{to limy}
 pyritic in upper part, fissile
- 2750-2850 sh, dk-gy to blk, ~~sl limy to~~
 limy, fissile, ^{to granular} pyrite

- 2850-2920 Sh, dk-gy to blk, limy, granular,
pyrite; ^{trace} fissil fragments
trace br-gy fissils @ 2880
- 2920-3000 Sh, dk-gy to blk, sl limy to limy,
granular to fissile
- 2956 - F-log begins
- 3000-3050 Sh, dk-gy to blk, v sl limy,
fissile.
- 3050-3150 Sh, dk-gy to blk, sl limy to limy
granular to fissile
- 3150-3300 Sh, blk, (sooty), sl limy to limy
f-mic, granular
800 Jan 8
- 3300-3400 Sh, dk-gy, f-mic, ^{limy} granular
- 3400-20 silty, med ~~to~~ gy, v limy, f-mic,
c-gr - Res c-gr gtz silt
- 3420-3450 Sh, dk-gy, silty, granular, limy
f-mic
- 3450-3475 silty, br-gy, v limy -
silt res
- 3475-90 Sh, dk-gy, v limy, granular
~~ds dk-br ch @ 3500 - corin 3510~~

(-10) \int adjust to base of Bone

3490 - 3520 sh, dk-gy, v limy, granular, trace dk-br-gy dense ch; con

(-10) 3520 - 3530 ch, dk-br gy, dense, sl limy

(-10) 40% dk-gy granular sl limy sh

3530 - 3560 ch, lt br gy, dense; trace br-gy non-limy sh

(-10) 3560 - 3570 shale, med-gy, f-gran, vsl limy, interbedded w/ lt-gy limy chert, & lt br gy ds ch

(-10) 3570 - 3590 sh, dk-gy, non-limy, hard & interbedded w/ 50% dk-gy ds ch

(-10) 3590 - 3600 sh as above but more limy

(-10) 3600 - 3620 ch lt br gy to dk-gy, ds, sl limy to limy; layers of lt br gy f-gran silty ls

(-10) 3620 - 3645 ch, lt br gy, dense; interbedded w/ lt br gy f-gran silty ls

3645 - 3660 ls, lt-gy to lt pinkish-gray, foss, f-med xln; pyrite & pink crinoid xlns; greenish-gy ^{pyritic} glauc shale layers at base - trace of v f sd in part - Probably no chert.

- 3660-3700 Ls, white to lt gy, f-xlln;
30% wh siliceous residue aggregate
much like angular vf-sd/-
trace dol rhombs
- 3700-10 Ls, wh to lt gy, f-xlln; siliceous
residue from most pieces; 30%
lt gy vf mottled ds smking ch
- 3710-30 Ls, lt br gy, f-gran, ^{dol} siliceous;
much lt br ds figured "dirty"
ch & dk-gy dolitic ds ch;
- 3730-60 Ls, lt br-gy ^{medium-gy}, dolitic, f-xlln;
foss frags; 10% dk dolitic ch
- 3760-3780 Ls, dk-gy, siliceous,
dolomitic f-gran; 20%
dk gy ds dolitic ch
- 3780-3820 Ls, br-gy to med-gy, siliceous
silty, ^{sdolitic} f-gran ^{to dense}, 10% dk-br gy ch.
foss frags - ost, dr ch, etc
- 3820-3900 Ls ~~white~~, br-gy to
med-gy st siliceous, silty
st dolitic, f-gran to dense;
interbedded w/ med dk gy f-gran ^{ling} dol

- 3900-10 Ls, lt br gy, ds
- 3910-4020 Ls, lt br gy ds; scattered
clear glz xls + rd + fr ^{f-} med sd grs
- 4020 4090 Dol, white, ^{to lt gy} v f ~~gran~~, ~~f~~ ^{xlln (smeared)} ~~if xlln~~
^{f, med} rd + fr sd grs
- 4090-4140 Ls, med-gy ^{sl dolie} ds, ~~f-gran~~
- 4140-4155 Dol, med lt gy, v f xlln
- 4155-4170 ~~ss~~ Dol as above but 30%
f-c rd + fr sd
- 4170-4200 Dol, med lt-gy v f xlln; Ls med-gy
ds + 30% f-c rd + fr ss
- 4200-4230 ss, sl dolie, f-c gr; dols
free; 2 entry growth; dark oil?
- 4230-4240 ss, yel-gy, f med gr; dols free
rd + fr to any
- 4240-4270 ss as above f-gr - Trace
med-grs
- 4270-40 Dol, med-gy, v f xlln;
trace sd grs
- 4290-4300 Dol, lt gy, v f xlln;
trace f- sd grs

- 4300 - 10 Dol, med gy f-gran to
 v f xlln; 40% f-med
 rd & fr ss
- 4310 - 30 Dol, med lt gy v f xlln;
 20% v f sd
- 4330 - 70 Dol, med gy f-med sdy,
 f-gran
- 4370 - 80 ss, dolies, f-med-gr;
 drls free; rd & fr to
 Eng
- 4380 - 4420 Dol, med lt gy,
 f-med sdy v f ~~gr~~^{xlln}
- 4420 - 30 ss, lt dr-gy, f-med gr;
 drls free; end to rd & fr
- 4430 - 4450 Dol, med lt gy, f-med
 sdy, v f xlln

TD 4450
 Albert Estate

Continental Oil Co

Sorrels No. 1

28-8N-18W -

Pope County, Ark. Elog 2497-6090

TD-6132

0-530 NS

530-560 ss, med lt gy, sl liming, vfgz;
interbedded w/ med dk gy, mic,
silty, v f sdy sh

560-580 slts, med dk gy, clayey, mic,
v f sdy

580-595 ss, med - gy, silty, sl liming
v f to f gr

595-605 sh, dk-gy, f-mic, silty

605-635 ss, med - gy, liming, silty, clayey
f-med-gr; con, bruch; siderite

635-670 slts, med dk gy, mic, v f sdy,
clayey

670-680 sh, dk-gy, silty

680-710 slts, med dk gy, mic, v f sdy,
shaly

- 710 - 740 sh, dk-gy, silty; pyrite
interbedded w/ med dk gy v/sdy slts
- 740 - 755 sh, dk-gy, mic, silty
- 755 - 765 ss, med-gy, ~~sl~~ v silty &
clayey, sl lining, f. gr (to med grs)
interbedded w/ dk-gy silty sh, chn
- 765 - 800 sh, dk-gy, silty, mic, finely
granular, v sl plus; pyrite
- 800 - 810 slts, med dk gy, mic, clayey,
sl lining; siderite.
- 810 - 830 sh, dk-gy, mic, silty
- 830 - 850 slts, med dk gy, mic clayey
- 850 - 920 sh, dk-gy, mic, silty to
v silty
- 920 - 930 slts, med dk gy, mic, granular,
sl phosphatic
- 930 - 1000 slts, med dk gy, mic, clayey, ^(almost silty sh)
interbedded w/ med lt gy v/s grss
- 1000 - 1170 sh, med dk gy, mic, v silty;
interbedded w/ med-dk-gy v/sdy
slts

1170-1250 silts, med dk gy, mic, clayey; vf sdy
in upper 20'
A, sil sideritic; v sil plus

1250-1280 silts, med dk gy, mic, clayey, sil limy
vf sdy, c-gr

1280-1290 silts, med dk-gy, mic & clayey

1290-1300 sh, dk-gy, vf mic, silty

1300-1330 silts, med dk gy, mic sil clayey

1330-1360 sh, dk-gy, mic, silty

1360-1430 silts, med-gy, mic, c-gr;
interbedded w/ dk-gy mic silty sh

1430-1450 silts, med-gy, mic, vf sdy

1450-1460 silts, med dk gy, mic, clayey

1460-1540 silts, med-gy, mic; vf sdy in part
parting 3 dk-gy sh

1540-1560 sh, dk-gy, fissile

1560-1580 ss, med-gy, v clayey, mic,
vf ^{to p} gr; ^{sl plus} sd in clay matrix
in part

1580-1630 ss, med-gy, silty, clayey, mic,
sil limy
vf to f-gr; trace c grs;

tr crin; beds med dk gy, mic vsilty sh
collected @ 1610-20

- 1630 - 1660 - ~~Poor~~, Very small, unwashed samples, mostly silty sh?
- 1660 - 1690 ss, med lt gy, sl limy, vf-c gr
- 1690 - 1700 ss, med lt gy, silty, sl limy, vf-fgr
- 1700 - 1730 ss, med lt gy, sl limy, ^{mic}vf-c gr; drills free
- 1730 - 1850 slts, med dk gy, mic, vfsdy; interbedded w/ dk-gy silty sh
- 1850 - 1880 ss, med-gy, vsilty, mic, vf to f-gr; interbedded w/ dk-gy silty sh
- 1880 - 1950 sh, dk-gy, mic, vsilty
- 1950 - 2000 slts, med dk gy, mic, clayey
- 2000 - 2050 Small unwashed samples as above?
- 2050 - 2070 slts, med dk gy, mic, clayey
- 2070 - 2200 Poor unwashed samples Shale, dk-gy, silty; interbedded w/ med dk-gy slts
- 2200 - 2360 slts, med lt gy, ^{mic}sl limy, vfsdy; interbedded w/ dk-gy silty sh

2360 - 2430

silts, med-gy, mic, vfsly,
c-gr gtz (almost vfgress)

2430 - 2460

Unwashed

2460 - 2500

silts, med dk gy, mic,
clayey; interbedded w/ dk-gy

silty sh

E-log begins 2497

2500 - 2520

Poor samples - unwashed

Probably as above

2520 - 2566

silts, med-gy, mic, c-gr;
interbedded w/ dk-gy silty sh

2566 - 2680

sh, med dk-gy, sl silty

2680 - 2736

sh, med dk-gy silty, interbedded
w/ med ~~dk~~ gy silts

2736 - 2744

silts, med lt gy, vfsly, c-gr

2744 - 2772

sh, med dk gy, v silty

2772 - 2840

silts, med-gy, mic, vfsly

med-to c-gr

2840 - 2880

Poor samples - unwashed

Probably as below

2880 - 2982

silts, med dk gy, mic, clayey
med ^{to c} gy

- 2982 - 3000 silts, med-gr, mic, clayey,
vf sdy, c-gr
- 3001 - 3032 silts, med-dk-gr, clayey
- 3032 - 3040 sh, med dk-gr, v silty
- 3040 - 3298 silts, med-gr, ^{sl mic} clayey in-c-gr
- 3298 - 3350 sh, dk-gr, clayey
- 3350 - 3365 ss, med-gr, v silty, v f gr;
- 3365 - 3405 silts, med-gr, v f sdy, clayey,
c-gr
- 3405 - 3437 sh, dk-gr, sl silty, clayey
- 3437 - 3450 silts, med-gr, ~~sh~~ v f sdy
- 3450 - 3480 silts, med dk gr, mic, clayey
- 3480 - 3485 sh, dk-gr, clayey
- 3485 - 3505 silts, med dk gr, mic, clayey,
v sl limy
- 3505 - 3535 silts, med dk gr, mic, clayey,
^{sl limy}
v f sdy, c-gr
- 3535 - 3575 silts, med dk gr, mic clayey,
sl limy + s/dentic
- 3575 - 3585 silts, med dk gr, mic, clayey,
sl limy, v f sdy

3585-3605 slts, med dk gy, mic, clayey,
v sl limy; trace siderite

3605-3714 sh, med dk gy, mic, silty,
v sl limy; trace slts
as above; trace siderite;
tr pyrite

3714-3755 slts, med dk gy, v clayey,
sl limy (samples mostly
silty sh, but E-log shows good
kiele)

3755-3800 sh, med dk gy, silty;
trace siderite

3800-3815 slts, med dk gy, clayey, ^{siderite} sl limy

3815-3885 sh, med dk gy, f mic, v silty
interbedded w/ slts as above

3885-3938 slts, med dk gy, f mic, sl
limy, clayey; tr pyrite

3938-3980 slts, med dk gy, v f slts,
v sl limy, clayey

3980-4038 sh, dk-gy, v f mic

- 4038 - 4120 sfts, med-gy, mic, clayey
sl liming, v f sdy
- 4120 - 4200 sh, dk-gy, f mic, ^{trace} beds
sfts as above
- 4200 - 4225 sfts, med-gy, sl liming,
v f sdy, c-gr.
- 4225 - 4233 sh, dk-gy
v Y P? orange-white mic shaly ss (slump below)
- 4233 - 4237 sfts as above
- 4237 - 4265 sh, dk-gy, much siderite
- 4265 - 4270 sfts, med dk gy, clayey
- 4270 - 4310 sh, dk-gy, clayey, ^{tosilty} siderite,
tr pyrite
- 4310 - 4440 sh, dk-gy, clayey to sl
silty; pyrite; siderite
- 4440 - 4460 NS -- as above
- 4460 - 4469 sh, dk-gy, clayey
- 4469 - 4480 ~~sh~~ sfts ^{slty} (samples b/k sh)
- 4480 - 4492 sh, dk-gy, clayey
- 4492 - 4540 ~~ss, med-gy, v silty~~
sfts, med-gy, ~~v f sdy~~ silty
beds w/ med to vc sd (poor
samples); interbeds dk-gy sh

4540 - 4580 sh, dk-gy, clayey to silty
4580 - 4600 NS

4600 - 4640 sh, dk-gy, clayey
4640 - 4655 silts, med # gy v fssdy, cgr

4655 - 4750 sh, dk-gy, silty to clayey;
pyrite

4750 - 4810 sh, dk-gy, clayey ^{to gy blk} & fissile
v silty

4810 - 4820 silts, med-gy, clayey

4820 - 4900 sh, gy-blk, clayey, fissile;
sl silty in part, tr pyrite

4900 - 4975 silts ^{med dk gy} v fssdy, f-mic, clayey,
A) c-gr; interbedded w/ dk-gy silty sh

4975 - 5288 sh, gy-blk, clayey, fissile;
K(?) silty in part

5110-5120 - single piece bentonite?
~~stack~~ in contact with dk-gy
sh; bentonite, orangish-gray, to
gy; many inclusions of various
kind in slight amount of flaky(?)
gy, soapy sh.

@ 5220-30 pyritized gastropod

Y

5288 - 5290 Bentonite, lt-gy w/ yellowish orange spots (inclusions) - several pieces of rather typical bentonite

5290 - 5330 ss, med-gy, v silty, sl limy, vf to f gr; dk-gy sh interbeds.

5330 - 5355 sh, dk-gy, clayey

5355 - 5370 ss as above; trace med grs; trace crin, pyrite
↑ grades downward into shale

5370 - 5459 sh, dk-gy, silty

5459 - 5500 ss, med-gy, clayey, v silty, silty limy, vf to f gr

~~5459 - 5500 ss~~

5500 - 5518 slts, med dk gy, mic, clayey

5518 - 5540 ss as above

5540 - 5563 ss, med-gy, silty, clayey, ~~limy~~ ^{to v limy}, vf to f gr; lr med grs; crin

5563 - 5580 slts, med-gy & mic,

5580 - 5640 ss, med-gy, v silty, vf to f-gr; crin

- 5640 - 5705 Sh, dk-gy, silty
- 5705 - 5720 slts, med-gy, silty, v f sd
- 5720 - 5825 Sh, med dk gy, f-mic, silty,
siderite
- 5825 - 5830 Ls, med-gy, sdg, ool, silty,
f-gran; ools w/ f sd centers
- 5830 - 5880 ss, med lt gy, ~~sl~~ limy, silty
v f to f gr; crin & lime
coated grs ^{& fods} in more limy part
- 5880 - 5911 Sh, dk-gy, clayey, fissile
- 5911 - 5950 ss, med lt gy, sl limy,
v f gr; well sorted, superse
- 5950 - 5975 ss, med lt gy to med gy, sl
limy, silty, v f to f gr
- 5975 - 6010 Sh, med dk gy, f-mic, silty,
- 6010 - 6046 slts, med-gy, c-gr; interbedded
w/ med dk gy ^{mic} silty sh
- 6046 - 6090 ss, med-gy, silty, limy,
v f to f gr; loss fragg -
crin? bryo?
- becomes more silty & sl crin
grained (some gravel) in lower part

6090 - TD (6100') 5/15, med dk gy, fine,
sl limy, clayey.

TD driller 6132

Schiller 6095

Samples running, 20' + high, TD
probably about 6100

Humble Oil & Refining Co. (Carter Div.)

#1 G.L. Bahner

12-8N-14W (SENE SW) E-log 0-TD

Poor to fair samples throughout ^{Measurement (12.4' above)} _{Frozen (G.L.)}

0-70 Poor samples, unwashed - probably med dk gy to med-gy mic c-gr silts interbedded with weathered sh

~~78~~ ¹³⁰ ss, lt stone, med dk gy, mic, clayey, med-to c-gr

~~110~~ silts, med dk gy, mic, clayey; thin bed med-gy silty vf to fgrss

~~120~~ ¹³⁰ 144 ss, med-gy, silty, vf to f gr ^{vf silty}

144-190 silts, med dk gy, mic, clayey beds dk-gy silty sh

190-308 sh, dk-gy, mic, silty,

308-320 ss, med lt gy, ^{sl limy} silty, vf gr

320-~~325~~ ³⁶⁷ silts, ^{med-gy to} med dk gy, ^{to med-gy} mic, clayey, vf sdy

~~325~~

367-377 ss, med-gy, ^{sl limy} v silty, vf gr

377-390 sh, dk-gy, mic, interbedded w/ med-gy mic silts

- 370 - ⁵³⁴~~470~~ sh, dk-gy, ^{mic}, clayey, siderite 470 →
- ~~470 - 515~~
- 534 - 539 slts, med-gy, clayey, v f sdy,
interbedded w/ dk-gy sh
- 539 - 560 sh, dk-gy, clayey, pyrite
- 560 - 575 slts, med dk gy, mic, clayey,
- 575 - 590 sh, dk-gy, f-mic, silty
- 590 - 608 slts, med-gy to med dk gy, mic
clayey; v f sdy in part
- 608 - 645 sh, dk-gy, mic, clayey; s/
silty in part
- 645 - 660 slts, med dk gy, mic, clayey; siderite
- 660 - 695 sh, dk-gy, mic, clayey, interbedded
w/ med dk gy mic, clayey slts;
siderite
- 695 - 730 sh, dk-gy, clayey
- 730 - 785 slts, med dk gy, mic, clayey;
interbedded w/ dk-gy sh
- 785 - 850 sh, dk-gy, mic, silty
- 850 - 860 slts as above
- 860 - 950 sh, ~~as above~~ dk-gy, clayey;
traces siderite & pyrite

- 950 ± Bentonite, med-gy, flaky; dolerite
etc included (2 pieces)
- 950-1100 Sh, dk-^{to gy dk}gy, clayey; pyrite
silt beds 1085-1090
- 1100-1140 ss, med-gy, silty, vs/ling,
f-c gr; interbedded w/
dk-gy sh (poor samples)
- 1140-1187 silt, med-gy, mic, clayey, vs/sh
- 1187-1200 ss, med-gy, silty, vf to f gr
- 1200-1205 silt as above
- 1205-1233 sh, dk-gy, clayey;
- 1233-1237 silt as above
- 1237-1330 sh, dk-gy, ~~vs~~ silty
- 1330-1577 sh dk-gy, clayey vs/ silty
Tr pyrite 1440, 1510
- 1577-1580 ss, med lt gy, silty, vf gr
- 1580-1590 sh dk-gy, clayey

- Y
1590 Bentonite, lt gr gy, v flaky,
several ^{small} pieces (4 small samples to 1504)
- 1590-1733 sh, dk-gy, clayey vs/ silty

- 1733-1742 silts, med-gy, mic, clayey
- 1742-1753 sh, dk-gy, clayey
- 1754³-1755 silts, med-gy, mic clayey
- 1755-1775 sh, dk-gy, clayey
- 1775
 Bentenite, H gy, flaky; ~~mic~~
 included ^{clear} grains or xlls (1820)
- 1775-1832 sh, dk-gy, clayey
- 1832-1840 silts, med ^{dk}~~sh~~ gy, clayey, limy,
 vf sdy
- 1840-1845 sh, dk-gy, clayey to silts
- 1845-1855 ss, med-gy, silty, sl limy,
 vf gr
- 1855-1885 silts, med ^{dk} gy, clayey to vf sdy;
 interbedded w/ dk gy sh &
 med-gy silty vf to f-gr ss
- 1885-1920 sh, dk-gy, clayey
- 1920-1925 ss, med-gy, silty, limy, f-to cgr,
 crin
- 1925-1940 sh, dk-gy,
- 1940-1950 ss, med-gy, silty, sl limy, f-gr
 tr med- to c grs; foss frags

- 1950 - 1956 Sh, dk-gy, clayey
- 1956 - 1978 ss, med-gy, silty, sl lining,
f-gr; crin
- 1978 - 2020 Sh, dk-gy, clayey
- 2020 - 2067 Sh, dk-gy, sl silty
- 2067 - 2107 ss, med lt gy, sl lining,
tr
med to c gr in crin
- 2107 - 2122 silty, med dk gy, mica, clayey
interbedded w/ dk-gy sh
- 2122 - 2125 ss, med lt gy, sl lining, silty,
f-gr
- 2125 - 2140 silty, med-gy, clayey, r f sdg
- 2140 - 2180 NS -
- E-log - 2140 - 2145 silts as above
- 2145 - 218 ss as below
- 2180 - 2200 ss, med lt gy, sl lining, med.
c-gr; tr crin
- 2200 - 2262 Sh, dk-gy, clayey
- 2262 - 2270 ss, med-gy, silty, mica,
sl lining, r f to f gr

- 2270 - 2315 sh, dk-gy, clayey, v s limy; trace siderite & pyrite
- 2315 - 2345 ~~sh~~, slts, med dk gy, clayey, mic, v f sdy; interbedded w/ dk-gy sh
- 2345 - 2350 ss, med-gy, sl limy, f-sand gr
- 2350 - 2400 sh, dk-gy, clayey
- 2400 - 2450 slts, med dk gy, mic, clayey sl limy; tr. siderite
- 2450 - 2500 sh, dk-gy, clayey, interbedded w/ slts as above
- 2500 - 2750 sh, dk-gy, slty
- 2750 - 2898 sh, dk-gy, clayey to sl silty
- 2898^y - 2900 Bentonite, lt^g gy, flaky, char inclusions - 3 pieces & in sample below
- 2900 - 2905 slts, med-gy, ^{sl limy} clayey, v f sdy, ^{crin}
- 2905 - 2940 sh, dk-gy, silty
- 2940 - 2965 slts, med-gy, sl limy, clayey, v f sdy; interbedded w/ dk-gy sh

- 2965 - 2992 ss, med-gy, silty, sl liming,
vf to f-gr
- 2992 - 3005 slts, med dk gy, clayey; interbedded
w/ dk-gy sh.
- 3005 - 3020 ss, med lt gy, sl liming,
vf gr
- 3020 - 3053 slts, med ~~dk~~ ^{sl liming} gy, vf sdy,
c-gr
- 3053 - 3072 sh, dk-gy, clayey
- 3072 - 3084 ss, med lt gy, sl liming,
silty, vf - f gr; scattered
med-c grs
- 3084 - 3103 slts, med dk gy, mic,
sl liming, clayey,
- 3103 - 3180 sh, dk-gy, clayey, ^{sl liming}
silty in upper part.
- 3180 - 3205 slts, med dk gy, clayey,
c-gr; interbedded w/ dk-gy
sh.
- TD 3205 schlam,
3207 driller

Humble Oil & Refining Company

Kaufman No 1

C NWSE

Conway, Ark

12-7N-17W

GL-295'

E-log starts @ 71'

Datum $\frac{11.5}{306.5}$

0-30 Sh, dk-gy, mic (~~in~~ surface?
debris mixed w/ samples)

30-71 Sh, dk-gy, mic, sl silty;
tr siderite.

71-197 E log begins

Sh, ~~dk~~ dk-gy, mic, sl silty

197-244 Sh, dk-gy, silty, mic, ~~tr~~
much siderite tr pyrite

244-255 silty, med-gy, mic, vf sdy

255-266 Sh, dk-gy, mic, silty

266-284 silty, med-gy, clayey, mic, vf sdy

284-370 Sh, dk, mic, silty

370-418 Sh, dk-gy, mic, silty; siderite

418-432 silty, med dk gy, mic, clayey;
tr vf sd

432-470 Sh, dk-gy, mic, silty; interbedded
w/ med-gy, mic, vf sdy silts

470-640 Sfts, ~~med~~ med-9g, clayey, v mic,
vf sdy, c-gr

640-680 Sfts, med dk-9g, mic, clayey

680-715 Sh, dk-9g, clayey

715-740 Sh, dk-9g, clayey, sl liming;
scattered ~~vf sd~~ silt &
vf sd in ^{sl liming} clay clay matrix in
part

740-792 Sfts, med-9g, mic, clayey, vf sdy

792-810 SS, med lt 9g, mic, clayey,
silty, vf gr

810-835 SS, med ^{lt} 9g, mic, sl liming, vf to fgr;
trace mud to cgrs

835-850 Sh, dk-9g, silty

850-875 Sfts, med lt 9g, mic, vf sdy

875-935 Sh, dk-9g, mic silty;
interbedded w/ med-9g, mic, vf sdy sfts;
~~scattered f sd~~

935-955 SS, med-9g, ^{mic} sl liming, silty,
vf to f-gr; layers of dk-9g sh

955-980 Sh, dk-^{to 9g blk} 9g mic, sl silty,
v sl liming

- 980-1050 Sh, dk-gy, mic, silty
- 1050-1190 Sh, dk-gy, f mic, sl silty
- 1190-1220 Sh, dk-gy to gy-blk,
- FZ
- 1220-1338 Sh, dk-gy, mic, silty;
interbedded w/ med dk gy, mic, silts
- 1338-1370 Ss, med-gy, ^{mic} sl, limy, v silty,
vf to f gr; beds dk-gy sh
- 1370-1390 Ss, med lt gy, mic, sl limy,
vf to f gr
- 1390-1440 Sh, dk-gy, mic, silty; interbedded
w/ med-gy mic silts
- 1440-1450 Ss, med lt gy, mic, sl limy,
silty, vf to f-gr
- 1450-1510 silts, med-gy, mic, clayey;
interbedded w/ dk-gy mic,
silty sh
- 1510-1700 silts, med-gy, mic, clayey,
vf sdg
- 1700-1715 Ss, med lt gy, mic, silty,
sl limy, vf gr

- 1715 - 1780 sfts, med dk gy, mic, clayey
- 1780 - 1815 sfts as above & dk-gy ss
- 1815 - 1850 sh, dk-gy, mic, silty; beds
med-gy mic sfts
- 1850 - 1865 sfts, med-gy, mic, clayey,
vf sdy
- 1865 - 1945 sfts, med-dk-gy, mic, clayey;
interbedded w/ dk-gy mic ss
- 1945 - 2010 sh, dk-gy, mic, silty
- 2010 - 2048 sfts, med dk-gy, mic, clayey;
interbedded with
w/ dk-gy mic ss
- 2048 - 2065 ss, med-dk-gy, mic, v clayey
and silty, vf to f-gv
- 2065 - 2125 sfts, med-lt-gy, mic, vf sdy,
c-gv
- 2125 - 2172 sfts, med-gy, mic, clayey;
interbedded with
w/ dk-gy silty ss
- 2172 - 2210 sh, dk-gy, mic, clayey, silty
- 2210 - 2212 ls, lt-gy, silty, ^(silty) dolie, f/sdy,
f/xlln -
- 2212 - 2225 sfts, dk-gy, clayey, mic, silty

- 2225 - 2250 sh, dk-99, f-mie, clayey
- 2250 - 2365 sh, dk-99, mie, silty
- 2365 - 2395 slts, med dk 99, mie, clayey
- 2395 - 2400 sh, dk-99 silty
- 2400 - 2435² slts, med dk 99, mie, clayey
- 2435 - 2450 sh, dk-99, mie
- 2450 - 2490 slts as above / sh as above
- 2490 - 2500 sh, dk-99 to 99-6¹⁵ mie, silty
- 2500 - 2550 slts, med dk-99, clayey, mie;
^{interbedded with}
 1/2 dk-99 silty, mie sh
- 2550 - 2595 slts, med dk-99, mie, clayey,
 v f sdy
- 2595 - 2630 slts, dk-99, mie, clayey;
^{interbedded with}
 1/2 dk-99 mie sh
- 2630 - 2650 sh, dk-99, mie, silty
- 2650 - 2807 sh, dk-99, clayey; tripyrite
- 2807 - 2915 slts, ^{med-} dk-99, mie, clayey,
 v f sdy
- 2915 - 3015 sh, dk-99, f-mie, sl silty
- 3015 - 3040 slts, dk-99, mie, clayey
- 3040 - 3080 sh, dk-99, mie, silty

- 3080-3130 slts, dk-gy, mic, ^{vsl limy,} clayey; siderite
- 3130-3160 sh, dk-gy, mic, silty; siderite
- 3160-3185 slts, dk-gy, mic, ^{vsl limy,} clayey; siderite
- 3185-3190 sh as above
- 3190-3210 slts as above
- 3210-3238 slts, dk-gy, mic, clayey; thin beds dk-gy clay sti, pyrite
- 3238-3290 slts, dk-gy, mic, clayey, v/s sdy; thin beds dk-gy sti, pyrite; siderite
- 3290-3340 sh, dk-gy, mic, silty; beds med dk-gy mic slts
- 3340-3345 slts, med-gy, mic, clayey v/s sdy
- 3345-3385 sh, dk-gy, mic, silty; ~~beds~~ interbedded w/ th med-dk-gy mic ^{clayey} slts
- 3385-3405 slts, dk-gy, mic, clayey, v/s sdy
- 3405-3420 sh, dk-gy, mic, silty

- 3420 - 3460 sfts, med-dk gy, mic, clayey;
tr siderite
- 3460 - 3532 sh, dk-gy to gy-blk⁷⁵, ff mic;
tr pyrite, caliper logs indicates
large diameter hole
- 3532 - 3565 sfts, med-gy, mic, clayey,
~~vt v f sdy~~
- 3565 - 3580 sfts as above + dk-gy sh
- 3580 - 3620 sfts as above, shaley in
3600 - 3920 (Rechecked)
(but no mott seen) lower part
- 3620 - 3660 sh, dk-gy, silty; ^{large diameter} ~~holes~~
- 3660 - 3695 sfts, med-dk-gy, mic, clayey
- 3695 - 3810 sh, dk-gy ^{to gy-blk} mic, silty;
caves - large diameter hole
- 3810 - 3820 sfts, med-dk-gy, mic, clayey
- 3820 - 3850 sh, dk-gy, clayey
- 3850 - 3900 ss, med-gy, v silty, v f ff-
gr; scattered med ¹⁰⁰grs; interbedded
^{with} dk-gy sh (poor samples)
- 3900 - 3920 ss, med-gy, v silty, sl lining,
vf to vc gr
- 3920 - 3950 ss, med lt gy, f. to ~~cc~~-gr,
drills free

3950 - 4005 ss, med-gr, silty, vfg; scattered med to c grs in lower part

4005 - 4095 silts, med-dk-gr, mic, clayey; ^{interbedded with} 1/2" dk-gr silty sh

4095 - 4120 ss, med-gr, silty, sl ling, v f to f-gr; clear gtz xlls

4120 - 4170 silts, med-dk-gr, clayey, mic

4170 - 4230 silts as above ^{interbedded with} 1/2" dk-gr silty sh

4230 - 4278 sh, dk-gr to gy blk, clayey ^{ccx}

4278 - 4310 silts, med-dk-gr, mic, clayey; pyrite

4310 - 4350 ^{mic,} sh, dk-gr, silty; pyrite;

at about 4320 sh, med-gr, soft, flaky slims, benthic ?? (similar sh in samples to 4500+)

4350 - 4395 sh, dk-gr to gy-blk, clayey; siderite

4395 - 4408 silts, dk-gr, mic, clayey

4408 - 4500 sh, dk-gr to gy-blk f mic clayey; pyrite ^{to silty sh}

4500 - 4540 silts, dk-gy, mic, clayey;
Grades downward into shaly

4540 - 4694 sh, dk-gy, ^{to gy-blk, v mic} silty ^{tr} in pyrite;
Recheck 4600 - 4950 siderite
For bentonite 4630-70, etc 4680-90
45025 50 - 1 piece ~~and~~ ^{probably slump} ~~in~~ the sh

4694 - 4720 ^{at about} ss; med-gy, silty, ^{siltiness},
f-to med-gr; tight; trace grs
y

4700 - 4710 - From 4693 99 - very small ~~some~~ pieces of ^{it's} bentonite? w/ orange inclusions - probably

4720 - 4735 silts, med-dk-gy, siltiness, ^{OK,}
v f sdy ^{but pieces too small for definite determination}

4735 - 4775 sh, dk-gy, f-gy-blk, clayey
to silty; pyrite

4775 - 4810 silts, med-dk-gy, siltiness,
v f sdy;

4810 - 4843 sh, dk-gy, f-mic, silty

4843 - 4875 ss, med-gy, v silty, siltiness,
v f f-to med-gr; trace grs;
~~matrix of silt & clay matrix~~

4875 - 4920 sh, dk-gy, mic, silty
4890 - 4900 1 piece (small) possible bentonite

4920 - 4950 ⁴⁹⁰⁰⁻⁹⁰ ⁴⁹⁴² ~~SS~~ ^{probably} sh ⁵⁰ ~~is about~~
to ~~4942~~ v silty ⁴⁹⁴² ~~as below~~ ~~4942~~ 50

4950-4955 silts, med-gr, sl limy, clayey,
c-gr

4955-5000 sh, dk-gr, sl mic, ^{slim} silty

5000-5070 NS

probably silty sh to 5065

As below 5065-70

5070-5075 silts, med-gr, v f sds, c-gr

5075-5100 ss, ^{lt} med-gr, v f to f gr;
scattered med grs; drills free

5100-5117 ss, med-gr, silty, siliceous,
v f to f gr; tr med grs

5117-5162 sh, dk-gr, silty, sl limy;
much pyrite in upper 10'; mostly
"granular", ^{to clayey} some layers have
c gtz silt

5162-5195 ss, med-gr, siliceous, clayey,
v f gr; silica ~~to clay~~ ^{to clay} or clay
matrix in different beds; pyrite

5195-5235 sh, dk-gr, sl silty; ^{to silty} figured
w/ thin pyritized? plant?
fragments.

5235-5245 silty, dk gy, clayey; cgr
silt in clay matrix; pyrite

5245-5263 - Poor samples, may be

5263 - Major Fault
Fault? Bloyd?
miss? silty ss

5263-5345 sh, dk-gy, ^{4099-blk} vsl limy,
sl silty, clayey; pyrite;
sl granular; salt, ~~sl~~
~~gray~~; i pyrite

5345-5390 sh, gy-blk, ^{to non-limy} vsl limy
(s. H grains in clay matrix)
extremely granular ~~grassy~~
^{sl} tight plus reaction;
fairly pyritic in part;
scattered mica

5390-5400 sh, dk-gy, sl silty, sl limy,
clayey; vf pyrite -- in part
~~pyritized? plant frags?~~

5400-5440 sh, gy-blk, vsl limy,
clayey; dull vf gran texture;
pyrite

5440-5500 sh, gy-blk, vsl limy,
clayey, fissile; pyrite

- 5500 - 5530 sh, dk-gy to gy - blk, v sl
 limy, clayey; (dull luster, pyrite)
 E log cuts 35 29
- 5530 - 5580 sh, gy - blk, clayey; fissile ^{in part}
 pyrite; siderite
- 5580 - 5680 sh, gy - blk, dull, ^{sl limy} clayey;
 pyrite, ~~med sl~~ phos, reaction;
 trace of siderite
- 5680 - 5770 sh, dk-gy, (dull, sl limy) ^{tolim}
 v f gran' ~~strong~~ phos, reaction ^{in upper part}
 especially in upper part
~~pyrite~~ and reaction below, pyrite
- 5770 - 5820 sh, dk-gy, dull, ^{sl limy} clayey;
 light to med ^{sl} phos react,
 pyrite
- 5820 - 5830 { Ls, med dk-gy (and lt gy crin),
 silty, sl calc, f-gran, silty
 clay res; no phos;
 crin & other fiss frags
- 5830 - 5860 ⁵⁰ sh, dk-gy, ^{to gy-blk} silty, granular,
 f-mic, sl limy; light ^{sl} phos
 (None of above ls in sample)

5850-5860 ~~58~~⁵⁴ dk-gy, v limy, v clayey + silty;
~~gran~~

5860-5910 ~~58~~⁵⁴ silt, dk-gy, limy, clayey,
f-mic; gt3 silt res;
little ^{limit} ~~or~~ pho → reaction

5910-5940. silt dk-gy, limy, mic;
tiny fossil frags throughout
"frags" in upper part

5940-5950 ls, dk-gy, v silty, v clayey,
v gran; crin & other foss
frags; clay-silt aggregate
res; partings dk-gy limy sh.

5954
TD ~~5954~~

Ark - La Pas Co

L. E. Darling #1

E-log 510' - TD

3-7N-15W

Conway Co, Ark

- 0-20 ss, weathered yellowish-orange, mic,
vf to f gr
- 20-40 ss, med lt gy, silty, f- to c-gr
grs. sub-ang to sub-rd
- 40-70 ss, med-gy, silty, f to med-gr
- 70-100 silts, med-gy, mic, v/sdy; 1/w/
med-lk-gy mic sh - more sh
in lower half
- 100-140 ss, med lt gy, ^{silty,} mic, sl lim, ^{mic,}
vf to f gr; beds med-gy
c-gr silts
- 140-180 ss, med lt gy, mic, sl lim, s/silty
vf ^{to f} gr; well sorted - scattered
lt dark flakes or grains
- 180-210 silts, med-gy mic, sl lim,
c-gr; well sorted gtz silt

- 210 - 240 slts, med-gy, mic, v sl lim,
 ~~med~~ sl clayey, med-gr
- 240 - 260 slts, med-gy, mic, sl lim, v f sdy,
 med - c gr; br v f sd
- 260 - 280 slts, med-gy, mic, sl lim,
 med-gr
- 280 - 300 ss, med lt gy, sl lim, silty,
 v f gr
- 300 - 330 sh, dk-gy, mic, silty
- 330 - 350 slts, med dk gy, mic, clayey
 interbedded w/ dk-gy silty sh
- 350 - 460 sh, dk-gy, mic, silty;
 br siderite
 pyrite @ 420
- 460 - 470 slts, med dk gy to dk-gy, mic,
 clayey, v f sdy, c-gr
- 470 - 500 slts, med-gy, mic, sl lim,
 v f sdy, c-gr
- 500 - 510 sh, dk-gy, mic, silty
 E-log begins @ 510

- 510-40 sh, dk-gy, mic, silty
- 540-560 NS - silty sh as above (E-log)
- 560 - 605 sh, dk-gy, clayey
- 605 - 710 ss, med lt gy, ^{mic} silty, sl lining,
vf to f gr; well sorted
- 710 - 740 slts, med-gy, mic, clayey
- 740 - ~~745~~⁵⁰ sh, med-gy to br gy,
mic, silty
- ~~745~~⁵⁰ - 760 slts, med-gy, mic, clayey
- 760 - 785 sh, dk-gy, mic, silty to
clayey
- 785 - 975 ^{to med-gy} slts, med lt gy, ^{sl lining} mic, vssds,
c-gr (maybe vf gr ss in part)
much is about 30% vt sd in
its silt matrix)
- 975 - 1112 slts, med-gy to med dk gy, mic,
v sl lining, clayey, med ^{to c} gr;
in part vf sds
- 1112 - 1125 slts, med-gy, mic, c-gr;
interbedded w/ dk-gy mic
silty sh.

1125 - 1160 silt_s, med lt gy, mic, sl limn,
c-gr; v f sdy in part

1160 - 1180 ss, med lt gy, mic, ^{silty} sl limn,
v f gr

1180 - 1205 sh, dk-gy, clayey

1205 - 1215 ss, med-gy, sl limn, v silty,
v f gr; pyrite

1215 - 1225 silt_s, med-gy, mic, clayey,
v f sdy

1225 - 1235 ss, med-gy, sl limn, silty,
v f gr

1235 - 1255 silt_s, med-gy, mic, v f sdy,
c-gr

1255 - 1282 ss as above

1282 - 1290 sh, dk-gy, clayey

1290 - 1305 silt_s, med dk gy mic, clayey;
v f sdy in part

1305 - 1345 ss, med lt gy, ^{to med-gy} sl limn, silty,
v f gr

1345 - 1375 silt_s, med dk-gy, mic, clayey

1375 - 1410 sh, dk-gy, mic, v silty

- 1410 - 1460 sh, dk-gy, mic, sl/silty
- 1460 - 1535 sh, dk-gy, mic, clayey
- 1535 - 1565 silty, med dk gy, mic, clayey
interbedded w/ dk-gy sh
- 1565 - 1660 sh, dk-gy, mic, clayey
- 1660 - 1675 silty, med dk gy, mic, clayey
- 1675 - 1712 sh, dk-gy, mic, clayey
- 1712 - 1725 silty as above
- 1725 - 1800 sh as above ; siderite
- 1800 - 1875 ~~sh~~^{silts}, ~~dk-gy~~^{med dk-gy}, mic, v ~~silty~~^{clayey},
siderite ; beds dk-gy silty sh
- 1875 - 1890 sh, dk-gy, mic, clayey
- 1890 - 1903 sh as above w/ silty as above
- 1903 - 1910 silty, med dk gy, mic, clayey,
v sh, siderite
- 1910 - 1972 ss, med: gy, mic, sl/lign,
silty, v fgr
- 1972 - 1979 silty, med dk gy, mic, clayey
- 1979 - 1985 sh, dk-gy, mic, v silty
- 1985 - ~~1985~~²⁰⁰⁰ sh, dk-gy, mic, clayey
- 2000 - 2075 silty, med dk gy, mic, clayey ;
interbedded w/ dk-gy sh

2045 - 2080 Sh, dk-gy, silty
2080 - 2090 silts, med dk gy, sl lim, v fsty
clayey

2090 - 2108 silts, med dk gy, clayey; siderite

2108 - 2155 Sh, dk-gy, clayey

2155 - 2210 silts, med dk gy, mic, clayey;
1/4 w/ dk-gy Sh

2210 - 2255 Sh, dk-gy, mic, clayey; siderite

2255 - 2260 silts, med dk gy, mic clayey

2260 - 2270 Sh, dk-gy, mic, clayey

Y
2270 - 2290 Sh as above w/ thin layers

v f sdy silts;

@ 2280 (sample 2270-80) bentonite,

lt-gray soft, flaky; inclusions;

many small pieces - larger pieces
slump pel 2310-20
2340-50

2290 - 2395 Sh, dk-gy, clayey

2395 - 2450 Sh, gy-blk, clayey, non-lim

Y?
2450 - 2460 ss, med lt gy, silty, sl lim, v f gr

2460 - 2480 ss, med-gy to med lt gy, sl lim,
silty, v f to med-gr;

@ above 2460 bentonite (?) med-br, flaky, sdy?

dilic (looks more contaminated than most)
Several pieces

- 2480 - 2500 ss, med lt gy, sl limy, silty,
vf to med-gr; scattered c grs +
tr gts grains
- 2500 - 2507 ss, med lt gy, f to c-gr; fine drilling
- 2507 - 2511 sh, dk-gy, clayey
- 2511 - 2530 slts, med dk gy, clayey, v f sdy
- 2530 - 2564 sh, dk-gy clayey / if w
slts as above? (poor samples)
- 2564 - 2570 ss, med-gy, silty, sl limy,
f to c gr
- 2570 - 75 sh, dk-gy, silty to clayey
- 2575 - 2595 ss, med lt gy, silty, sl limy,
vf to f gr; scattered med grs
- 2595 - 2630 slts, med dk gy, clayey, sl mic
- 2630 - 2665 sh, dk-gy (some yellowish-brown
in sample only)
v. silty
- 2665 - 2685 sh, dk-gy, clayey
- 2685 - 2715 slts, med dk gy, mic, clayey,
v f sdy
- 2715 - 3370 sh, dk-gy, clayey, ~~not limy~~
- 3370 - 3375 sh, dk-gy to gy-blk,
clayey, non-limy

y
3375 - 3377

Bentonite, light-gy, (orangish
br. inclusions) flaky, dollic
soft (bleaches white in
acid) many ^{small} pieces in this
sample & below

3377 - 3397 ss, med lt gy, limy, porous,
vf to med-gr

3397 - 3406 sh, dk-gy to gy-blk, clayey

3406 - ~~3430~~ 3430 ss, med lt gy, limy, porous
vf to med-gr, ^{tr. grs}; tr. crin;
drills free in part

3430 - 50 ss, lt-gy, sl limy,
vf gr; sucrose-well
sorted, porous

3450 - 60 slts, med lt gy, sl limy,
vf sdy, siliceous

y
3460 sh, dk-gy, clayey; med-gy
soft flaky bentonite?

(poor sample & may be
out of place) - non-insect
sample

- 3470 - 3480 silty as above
- 3480 - 3497 ss, med lt gy, sl lining,
vf to f gr
- 3497 - 3512 sh, med dk gy, v silty
- 3512 - 3525 ss, med lt gy, sl lining,
vf gr
- 3525 - 3560 sh, dk gy, clayey, non-lim
- 3560 - 3582 ss, med lt gy, lim, f to cgr;
tr crin; drills free
- 3582 - 3600 ss, med-gy, v silty,
dirty, sl lining, vf to
f-gr; ^{sattered med grs} a blk clay or
dead oil between grains
- 3600 - 3660 silty, med lt gy, sl lining,
vf sdy, c-gr
- 3660 - 3670 ss, med lt gy, sl lining,
f-to med-gr
- 3670 - 3690 ss, med lt gy, vf to f gr;
drills free
- 3690 - 3730 silty, med dk gy, mic,
clayey, vs sdy;
grades into units below

- A vs/ limy
- 3730-3750 Sh, dk-~~gy~~ silt^{ly}
interbedded w/ med dk gy
mic silt in upper
part
- 3750-3770 Sh, dk-~~gy~~, clayey
- 3770-3790 silt^s, med dk-~~gy~~, clayey, limy
red-gr
- 3790-3795 silt^s, med-~~gy~~, ~~limy~~,
vf sdy
- 3795-3815 Ls, med-~~gy~~, v sdy, foss,
clastic; crin^{branch}; f to c sd
- 3815-3910 Sh, dk-~~gy~~, clayey, limy
- 3910 - ss, med lt ~~gy~~, limy,
silt^s, vf ~~gr~~^{to f}; sucrose;
mostly free drilling;
foss frags? in upper part
E log ends 3923
TD 3960