

- ① Beard - Evans
- ② Starr - Horn
- ③ Sinclair - Carmichael
- ④ Ark-La - McGowan
- ⑤ Stephens - Ward
- ⑥ Carter - Morrilton Lumber Co
- ⑦ Shell - Stewart
- ⑧ Sunray - Wright - 16-8N-6W

Well Samples  
Keep

Beard Oil Co

Frans #1

32-T9N-R11W

Cleburne Co., Ark.

- 0-10 SS, weathered yet-br, med-c gr
- 10-40 SS, med lt gr, silty, sl limy <sup>(trace c-gr)</sup> f-med gr  
~~med~~ plant frags
- 40-130 SS, med lt gr, mic, ~~silty~~ <sup>sl limy</sup> v f-gr,  
trace plant frags; silty in part  
but mostly clean + hard
- 130-230 ~~SS~~ SS, med lt-gr, sl limy, mic  
silty, v f-gr (c-gr gtz silts in part)
- 230-260 S lts, med-gr, mic, sl limy  
v f sdy c-gr; grain size  
decreases downward
- 260-75 Sh, dk-gr, clayey, fissile
- 275-90 SS, lt-gr, mic, ~~sl~~ limy f-med gr
- 290-300 SS, lt-gr, mic, limy f-gr
- 300-320 SS, med-gr, mic, silty, v f-fgr
- 320-340 NS

- 340-50 SS as above
- 350-405 SS, med-gr, mic, silty, ~~stale~~  
vfg; interbedded w/ dk-gr sh  
becomes more sandy downward
- 405-435 Sh, dk-gr, silty, f-mic
- 435-50 silts, med-gr, mic, vfg sdy
- 450-505 SS, med-gr, f-mic, silty vfg-gr  
grain size increases downward
- 505-530 Sh, dk-gr, mic, silty, interbedded  
w/ med-gr, mic, vfg sdy
- 530-570 SS, med-gr, mic, silty, vfg
- 570-610 silts, med-gr, mic, <sup>sl limy</sup> vfg sdy
- 610-660 Sh, dk-gr, mic, silty; and  
med-gr, f-mic, vfg silts
- ~~630- silts, f-mic, med-gr, f-mic,  
vfg~~
- 660-80 Sh, dk-gr, silty
- 690-90 silts, med-gr, f-mic, clayey
- 690-705 SS, lt gr, sl limy, vfg gr
- 705-720 Sh, dk-gr, mic, silty
- 720-30 Sh, dk-gr, f-mic, clayey
- 730-40 SS, lt br gr, f-mic, sl limy,  
vfg-fgr

- 740 - 60 Sh, dk-gy, mic, silty to clayey
- 760 - 810 Sh, dk-gy, clayey, fissile;  
~~dk-br~~ siderite
- 810 - 50 Sh, dk-gy, clayey; interbedded  
 w/ med-dk gy rts dy silts
- 850 - 890 Sh, dk-gy, clayey, fissile;  
 trace pyrite
- 890 - 910 Sh, dk-gy, silty; siderite
- 910 - 20 Silts, med dk gy, f-mic  
 clayey; siderite
- 920 - 940 Sh, dk-gy, silty; siderite
- 940 - 990 Sh, dk-gy, clayey, fissile;  
 siderite
- 990 - 1020 Sh, dk-gy, silty
- 1020 - 1070 Sh, dk-gy, ~~silty~~ clayey;  
 siderite
- 1070 - 1090 Sh, dk-gy, f-mic, silty;  
 granular, sl bedding; siderite
- 1090 - 1200 Sh, dk-gy, clayey, fissile; siderite  
 Trace pyrite
- 1200 - 1240 Sh, dk-gy, clayey, silty;  
 dk-br siderite



- 1240 - 70 sh, dk-gy, clayey, fissile
- 1270 - 1360 sh, dk-gy clayey to ~~ss~~ silty,  
 & trace siderite
- 1360 - 20 ss, lt-gy, sl lim, rf fgr
- 1370 - 80 sh, dk-gy, sl silty
- 1380 - 1455 silts, med-gy, c-gr,  
 (Erlon begins @ 1400) interbedded w/ dk-gy f-mic sh
- 1455 - 65 sh, dk-gy, mic, silty
- 1465 - 1606 sh, dk-gy, <sup>clayey</sup> silty, fissile.
- 1606 - 1674 ss, med gy, silty, sl lim  
 rf - fgr - clay matrix
- 1674 - 1825 sh dk-gy clayey, fissile  
 siderite @ 1760
- 1825 - 1856 silts, med-gy, f-mic,  
 clayey, sl lim
- 1856 - 1875 silts, med lt gy, <sup>to med-gy</sup> mic, rf sdy,  
 interbedded w/ dk-gy sh
- 1875 - 1906 silts, med-gy, f-mic,  
 clayey
- 1906 - 1914 silts, med-gy, mic rf sdy
- 1914 - 1926 sh, dk-gy, clayey

- 1926 - 38 ss, ~~wt~~ lt gy, to med-gr, silty  
v sl lim, v f gr
- 1938 - 55 ss - med-gr, v silty, v f gr;  
interbedded w/ dk-gr sh
- 1955 - 70 ss, med lt gr, silty,  
sl lim, v f - f gr
- 1970 - 2002 ss, lt br gr, ~~sl~~ lim,  
silty, v f - f gr; trace med grs  
<sup>abundant</sup> Crin & other foss frags in  
silty sdg. ls layers.  
~~more limy layers - nearly ls~~
- 2002 - 2048 sh, dk-gr, <sup>fine</sup> sl silty
- 2048 - 60 ss, lt br gr, <sup>silt</sup> lim, f-med gr  
scattered c-grs, crin
- 2060 - 70 ss, lt-gr, <sup>lim</sup> f-med-gr; scatt  
c + vc grs
- 2070 - 2080 ss, med-gr, lim, silty f-gr;  
scattered qtz grains; crin &  
other foss frags
- 2080 - 2104 ~~ls~~ ss, lt br gr, lim, med-gr;  
Crin & other foss frags

- 2104 - 2153 Sh, med-qq, v silty, sl limy
- 2155 - 2176 ss, lt br qq, sl limy, <sup>siliceous</sup> f-gr
- 2176 - 2190 ~~ss~~, slts, med-qq, f-mic,  
thin beds slt br qq rf to f-gr ss
- 2190 - 2210 ss, lt-qq, med-vk grs; ~~grs~~  
drills free
- 2210 - 2235 slts, med-qq, mic, c-gr
- 2235 - 2250 ss, lt br qq, sl limy, f-cgr  
drills free mostly
- 2250 - 2280 Ls, med-qq, foss, v sdg; f-c  
sd grs; crin & other foss frags
- 2280 - 90 ss, med lt qq, silty, siliceous,  
sl limy, rf gr.
- 2290 - 2325 ss, lt br qq, limy - f - med gr
- ~~2325 -~~ ~~grades lower 5' med qq, foss sd~~
- 2325 - 30 Ls, med dk-qq, foss, sdg; f-v <sup>sd</sup> grs.
- 2330 - 2400 sh, med dk qq, v silty, sl limy
- 2400 - 2425 sh, dk-qq, clayey
- 2425 - 2438 ss, lt-qq, limy, rf-f gr;  
foss frags - crin
- 2438 - 2475 sh, med-dk-qq, silty

- 2475 - 2500 ss, med lt gy, <sup>mic</sup> liming, vf-f gr
- 2500 - 2550 sh, dk-gy, silty
- 2550 - 2638 shale, dk-gy, clayey, fissile
- 2638 - 2666 ss, lt br gy, liming, vf-f gr
- 2666 - 2704 ls, lt br gy, v sdy, foss;  
f-med sl grs; <sup>crin</sup>
- 2704 - 2745 silty, med-gy, <sup>sl liming</sup> c-gr,
- ~~2740 - 30 silty - med-gy, sl liming, c-gr;  
interbedded w/ dk-gy sh~~
- 2745 - 2795 sh, dk-gy, clayey, fissile
- 2795 - 2810 ss, lt br gy, <sup>silty</sup> sl liming, vf-f gr
- 2810 - 2825 ss, med-gy, silty, v liming,  
vf-f gr
- 2825 - 2874 sh, dk-gy, clayey, fissile
- 2874 - 84 ss, lt-gy, f-gr - drills face
- 2884 - 98 sh, dk-gy, clayey, fissile
- 2898 - 2910 ss, lt br gy, foss, v liming  
f-gr; <sup>crin</sup>
- 2910 - 2960 ss, lt br gy, sl liming,  
vf-f gr
- 2960 - 3000 ss, lt br gy, sl liming, f-gr

- 3000 - 25 SS, med-gr, sl limy, silty, vfg
- 3025 - 34 Sh, dk-gr, mic, silty
- 3037 - 40 SS, lt br gr, silty, sl limy, vfg
- 3040 - 54 Sh, dk-gr, clayey
- 3054 - 3060 Ls, br-gr, silty, v sds, f-vc sds, crin
- 3060 - 80 SS, med-gr, v silty, sl limy, vfg
- 3080 - 3117 silts, med-gr, sl limy, c-gr - shaly in lower half
- 3117 - 3130 SS, med lt gr, limy, f-c gr.
- 3130 - 3160 SS, lt gr, sl limy f-gr
- 3160 - 20 SS, lt br gr, siliceous, vfg
- 3170 - 3205 silts, lt br gr, <sup>to med-gr - f-mic</sup> c-gr
- 3205 - 3220 Sh, dk-gr, sl silty; sident
- 3220 - 3227 SS, med lt gr, limy, v-fgr
- 3227 - 3280 Sh, dk-gr, <sup>f-mic</sup> silty; interbedded w/ med-gr cgr silts



- 3280 - 3305 sh, dk-gy, f-mic, sl silty
- 3305 - 3320 sh, dk-gy, silty; interbedded w/  
med-gy mic c-gr silt
- 3320 - 52 sh, dk-gy, silty
- 3352 - 3400 ss, lt br-gy to med-gy,  
sl limy, <sup>silty</sup> rfs - f-gr; trace of g
- 3400 - 20 silt, med-gy, f-mic, v f sdy
- 3420 - 3470 ss, med-<sup>mic,</sup>gy, r silty, v fgr
- 3470 - 3520 silt, med-gy, mic, v f sdy
- 3520 - 3557 sh, dk-gy, f-mic, silty  
trace siderite
- 3557 - 70 silt, med dk gy f-mic, c-gr
- 3570 - 90 silt as above + dk-gy ss
- 3590 - 3610 sh, dk-gy, silty
- ~~3610~~ <sup>3610</sup> - 3660 silt, med-gy, f-mic, c-gr,  
interbedded w/ dk-gy ss
- 3660 - 3675 sh, dk-gy sl silty
- 3675 - 3683 silt, med-gy, mic,  
rfs sds; interbedded w/  
dk-gy ss
- 3683 - 96 sh, dk-gy, sl silty

- 3696-3704 SS, med-gr, sl lining,  
vsilty r f gr
- 3704-3724 Sh, dk-gr, clayey, non-lim
- 3724-3750 SS, med-gr, silty, liming,  
vf-f gr
- 3750-70 SS, med lt gr to med gr  
sl lining, f-gr
- 3720-20 SS, med-gr, vsilty, vfgv
- 3780-3795 SS, lt br gr, sl lining,  
f-gr
- 3795-3810 Silt, med dk-gr, clayey,  
granular
- 3810-34 SS, med dk-gr, silty,  
granular - trace  
f-sil in clay matrix
- 3834-45 SS, med lt gr, silty, liming,  
poorly sorted, vf-vc gr;  
qtz granules
- 3845-3868 Silt, med dk-gr, <sup>sl lining</sup> vf clay,  
c-gr
- TD 3868 - Evans

Starr Oil & Gas Co

WA Horn No. 1

1 - 8N - 8W

White Co, Ark

E-log starts @ 500

540 - 650 SS, med lt gy, <sup>f mic,</sup> r silty, sl limy r f gr,  
interbedded w/ <sup>med - gy</sup> c-gr qtz silts

650 - 75 SS, med - lt gy, f-gr; drills free

675 - 695 SS, med lt gy, silty, mic, sl limy,  
f-cgr

695 - 705 SS, med lt gy, silty, r f gr

705 - 75 SS, med dk-gy, ~~r~~ silty

745 - 751 SS, med lt gy, silty, f-med gr

751 - 770 SS, med dk gy, silty

770 - 80 SS, med lt gy, f-gr; drills  
free; trace med-c gr

780 - 90 SS as above & dk-gy silty sh  
slimy

790 - 810 SS, med lt gy, f-med gr; drills free

810 - 827 SS, med dk-gy, silty

827 - 835 SS, med lt gy; sl limy, silty,  
f-gr; trace med-gr

- 835-943 Sh, dk-gr, silty, v sl limy
- 943-950 ss, med lt gr, silty, sl limy f-gr
- 950-70 silt med-gr, c-gr
- 970-980 Sh, dk-gr, silty
- 980-1014 ss, med lt gr, silty, sl limy,  
vf-f-gr
- 1014-1025 Sh, med dk gr, v silty
- 1025-1055 silt, med dk-gr, mic, v f sdy
- 1055-1090 ss, med lt gr, sl limy, vf-f-gr
- 1090-1100 Sh, dk-gr, silty.
- 1100-1120 ss, med lt gr, silty, vf-f-gr
- 1120-1150 silt, med-gr, mic, clayey
- 1150-1200 Sh, med dk-gr, silty
- 1200-1210 silt, med-gr, vf sdy
- 1210-1305 Sh, med dk gr, v silty;  
layers med-gr silt
- 1305-1360 Sh, dk-gr clayey to silty
- 1360-1380 ss, lt-gr sl limy, vf-f-gr
- 1380-1415 silt, ss, med dk-gr, silty
- 1415-1460 Sh, dk-gr, clayey, non-limy
- 1460-1470 ss, med lt gr, silty, vf-gr

- 1470 - 1525 silts, med-gr, clayey
- 1525 - 1532 sh, dk-gr, silty
- 1532 - 1595 ss, med lt gr, silty, <sup>v. limy</sup> vf-fgr
- 1595 - 1645 sh, dk-gr, clayey
- 1645 - 1660 ss, lt br gr, v limy, f-med gr;  
tr c-grs; crin
- 1660 - 1690 - Poor samples - probably  
as below
- 1690 - 1700 ss, med lt gr, limy, vf-fgr;  
trace med-grs; crin, glauc
- 1700 - 1720 ss, med lt gr, v limy, f-med gr;  
trace c-grs; crin & other  
foss frags
- 1720 - 80 ss, lt-gr, v limy, f-med-gr;  
trace v c-grs & g/lz grains; crin  
& other foss frags
- 1780 - 1790 ss, lt-gr, v limy, f-gr; crin
- 1790 - 1835 sh, dk-gr, sl silty, non limy
- 1835 - 1900 ss, lt-gr; limy, f-med gr;  
tr c-grs; porous (dead oil in  
upper 10")



- 1910 - 1930 SS, lt-gy, limy, f-med-gr
- 1930 - 1952 SS, lt-gy, silty, vf-fgr
- 1952 - 1980<sup>9</sup> sh, dk-gy, clayey, non-limy
- 1980 - 1990<sup>9</sup> SS, med lt-gy to med-gy, silty, vsl limy, f-med gr
- 1990 - 2030<sup>9</sup> SS, lt-gy, <sup>sl silty</sup> vsl limy, vf-fgr layers dk-gy sh
- 2030 - 40 SS, lt-gy to med lt-gy, silty, shaly, vf-med gr; trace of grass
- 2040 - 70 SS, ss above but no grass (mic, sl limy)
- 2070 - 2110 SS, med lt-gy, silty, vf-fgr
- 2110 - 2155 SS, med-gy, <sup>med lt-gy</sup> silty, mic, vf-fgr
- 2155 - 2180 silty, med dk-gy, mic, clayey, vf sdy
- 2180 - 2200 NS
- 2200 - 2220 SS, med-gy, silty, vf-fgr, scattered med-gr
- 2220 - 40 SS; med-gy, v silty, vf-fgr; interbedded w/ med-gy silts
- 2240 - 2265 SS as above + fine m-csdgrs
- 2265 - 2335 silty, med-gy, vf sdy, dk-gy sh (Poor sample)

- 2335 - 2353 - ss, med lt gy, f-gr
- 2353 - 2555 sh, dk-gy, <sup>f-mic, clayey</sup> sl silty non-limy
- 2555 - 2580 ss, med lt gy, f-med gr;  
drills free
- 2580 - 90 ss, med lt gy, v f f gr;  
drills free
- 2590 - 2600 ss, med lt gy, f-med gr;  
trace c-grs
- 2600 - 2605 sh, dk-gy
- 2605 - 2630 ss, med-gy, silty, limy,  
f-med gr; scattered v-grs & grana  
crin
- 2630 - 2698 sh, dk-gy, f-mic, sl silty +  
clayey - non-limy
- 2698 - 2702 ss, br-gy, v silty, sl limy  
v f-f gr; clay matrix
- 2702 - 2770 sh, dk-gy; f-mic, sl silty  
thin beds of ss above
- 2770 - 2780 slts, med-gy, v ss dy; much  
dk-br siderite
- 2780 - 2870 sh, dk-gy, clayey, sl silty  
splintering fracture in part

- 2870 - 2890 ss, med-gr, v silty, sl lining,  
vf - f gr; scattered med & c grs;  
clay matrix
- 2890 - 2940 ss, med-gr, v silty, sl lining  
vf - f gr; interbeds of dk-gr sh
- 2940 - 50 silts, med-gr, vf sdy; interbedded  
w/ dk-gr sh.
- 2950 - 70 sh, dk-gr
- 2970 - 80 ss, lt-gr to med-gr, vf - f gr;  
trace of med grs
- 2980 - 3035 sh, dk-gr, silty in part
- 3035 - 70 ss, med-gr, mic, silty, vf - f gr
- 3040 - 70 sh, dk-gr; silty in part  
interbedded w/ med-gr f sdy silts
- 3070 - 3120 sh, dk-gr; silty in part
- 3120 - 3170 ss, dk-gr; interbedded w/  
lt-gr<sup>to</sup> med-gr v silty vf - f gr ss;  
inpart sd in clay matrix
- 3170 - 3220 sh, dk-gr, silty; trace  
scattered f - sd grs in part

3220-3255 Sh, dk-gy, f mic, silty;  
interbedded w/ lt-gy to med-gy,  
silty, v f-f gr ss; trace  
coaly plant material

3255-75 ss, med-gy, sl lining, vsilty,  
mic, v f-f gr ss; interbedded  
w/ dk-gy sh

3275-3348 Sh, dk-gy, silty; interbedded  
w/ <sup>lt-gr</sup> med-gy vsilty v f-f gr ss

3348-58 ss, med-gy, vsilty, v sl lining,  
v f-f gr; trace med-grs

3358-3412 Sh, dk-gy, silty; interbedded w/  
med-gy vsilty v f-f gr ss

3412-3430 ss, med-gy, <sup>f mic</sup> vsilty, sl lining,  
v f-f gr; trace med grs; porous

3430-3560 Sh, dk-gy, clayey, v sl lining;  
in part sl silty + sideritic

3560-3700 Sh, dk-gy, clayey non-lining,  
splintery fracture - fissile;  
trace pyrite; trace siderite

3700-3900 Sh, dk-gy, clayey, splintery  
fracture; trace <sup>dk-gy</sup> siderite

3900 - 4015 52, dk-99, clayey,  
splintery fracture - non limy

TD 4015 #/Horn



Sinclair Oil & Gas Co.

Carmichael #1

E-log starts 820'

11-7N-10W

White Co., Ark.

30-60 ss, med ~~gr~~ gy, vs limy, silty, mic  
vf-f gr

60-85 slts, med-gy, c-mic, silty, <sup>to limy</sup> vfsdy  
c-gr

85-100 slts, med-gy, c-mic, sl limy;  
~~sh~~ but <sup>med</sup> dk-gy silty sh

100-130 As above but vfsdy

131-200 sh, ~~st~~ med dk-gy, mic, silty

200-255 sh, dk-gy, vs-mic, non limy

255-280 ss, med lt-gy, <sup>mic</sup> limy, vf fgr

280-300 ss, med-gy, mic, silty, shaly,  
<sup>sl limy</sup>  
vf gr

301-340 slts, med-gy, mic, vfsdy, c-gr

340-390 slts, br-gy, mic, <sup>sl limy</sup> vfsdy c-gr; interbedded  
w/ dk-gy vs mic sh

390-#10 ss, med-gy, mic, vsilty, vf gr

- 410-430 ss, med-gr<sup>s</sup>, <sup>mic</sup> v silty, vf gr,  
scattered f-med grs
- 430-460 ss, med-gr<sup>s</sup>, mic, v silty, vf gr
- 460-70 silty, med-gr<sup>s</sup>, f-mic, silty, c-gr,
- 470-500 ss, med-lt gr<sup>s</sup>, v silty, f-mic,  
silty vf-f gr
- 500-520 ss, lt-gr<sup>s</sup>, f-med gr<sup>s</sup>; drills free
- 520-530 ss, lt-gr<sup>s</sup>, f-c gr<sup>s</sup>, drills free
- 530-580 sh, dk-gr<sup>s</sup>, f-mic, silty
- 580-630 ss, med lt gr<sup>s</sup>, <sup>mic</sup> silty, <sup>silty</sup> vf-f gr
- 630-690 sh, dk-gr<sup>s</sup>, f-mic, silty
- 690-750 ss, med-gr<sup>s</sup>, mic, v silty, silty,  
vf-f gr
- 750-780 sh, dk-gr<sup>s</sup>, f-mic, silty
- 780-810 ss, med lt gr<sup>s</sup>, mic, vf-f gr
- 810-920 ss, dk-gr<sup>s</sup>, ~~f-mic~~ silty
- Elongation 820
- 920-940 ss, med-gr<sup>s</sup>, v silty, vf gr
- 940-950 sh, dk-gr<sup>s</sup>, silty
- 950-982 ss, <sup>lt-gr<sup>s</sup></sup> br-gr<sup>s</sup>, mic, silty, <sup>silty</sup> vf-f gr  
trace med-gr<sup>s</sup>

- 982-1020 Sh, dk-gy, silty
- 1020-1080 Slt, med-gy, mic, v f silty;  
interbedded w/ dk-gy sh
- 1080-1130 Sh, med dk-gy, <sup>mic,</sup> silty
- 1130-1180 Slt, med dk-gy, mic, clayey
- 1180-1450 Sh, dk-gy, <sup>mic</sup> clayey, <sup>to silty</sup> fissile; <sup>non lim</sup>
- 1450-1740 S3, med dk-gy, f-mic, silty
- 1740-1800 Sh, med dk-gy, mic, v silty to silty
- 1800-1890 Sh, med dk-gy, mic, sl silty, <sup>to silty</sup> trace  
dk-gy siderite
- 1890-1940 Sh, med dk-gy, mic silty
- 1940-~~2000~~<sup>1980</sup> Sh, dk-gy, mic, sl silty;  
trace of siderite
- <sup>1980</sup>  
2000-2050 Sh, dk-gy, clayey, <sup>to silty</sup> siderite
- 2050-2200 Sh, dk-gy, clayey to sl silty
- 2200-2220 Sh, dk-gy, clayey to silty; siderite
- 2220-2260 Slt, <sup>med-gy to</sup> dk-gy, mic, clayey, sl limy;  
silt-sized qtz in clay matrix.
- 2260-2280 Sh, dk-gy, silty
- 2280-2330 Slt, med-gy, mic, clayey
- 2330-2350 Sh, dk-gy, mic, silty

- 2350 - 2580 Sh, dk-gy, clayey; trace pyrite  
non limy; trace siderite in part
- 2580 - 2600 Sh, dk-gy, clayey; trace dk-gy  
granular, silty sh; siderite
- 2600 - 2668 Sh, dk-gy, clayey; siderite
- 2668 - 2674 Slt, med-gy to ~~dk-gy~~  
clayey, c-gr; clay matrix;
- 2674 - 2703 Sh, dk-gy, clayey; siderite
- 2703 - 2705 Sh, lt-gy to lt greenish-  
Y silt-, bentonitic; clear + lt  
yell br mineral grains included.  
(No sand in sample)
- 2705 - 2795 Slt, med-<sup>mic</sup>gy, clayey, c-gr; <sup>sl limy</sup>  
layers of dk-gy sh
- 2795 - 2820 Slt, med lt gy, sl limy,  
rf sdg, c-gr
- 2820 - 30 Sh, dk-gy, clayey
- 2830 - 2865 SS, med lt gy, <sup>sl limy</sup>mic, silty, vtgr
- 2865 - 2890 Slt, med-gy, mic, sl limy, c-gr
- 2890 - 2900 Sh, dk-gy, clayey silty,
- 2900 - 2910 SS, med-<sup>sl limy</sup>gy, silty, rf-med-gr

- 2910-20 SS, med lt gy, sl liming, <sup>mic</sup> silty, vfgv
- 2920-2955 slts, med-gy, sl liming, <sup>vt sdy</sup> mic c-gr
- 2955-2980 Sh, dk-gy, silty to clayey
- 2980-2995 SS, med lt gy, silty, sl liming, vfgv
- 2995-3010 Sh, dk-gy clayey to silty
- 3010-25 SS, med-gy, silty, liming, vfgv
- 3025-3065 SS, lt-gy, <sup>mic</sup> silty, sl liming, vfgv;
- 3065-3110 Sh, med dk-gy, mic, vsilty
- 3110-3155 slts, med-gy, mic, <sup>sl liming</sup> vfgv c-gr
- 3155-3200 slts, med-gy, mic, c-gr, interbedded w/ dk-gy sh
- 3200-3270 Sh, med dk-gy, mic, vsilty
- 3270-3280- slts, med-gy, vfgv, c-gr
- 3280-3295 Sh, dk-gy, mic, vsilty
- 3295-3310 slts, med-gy, mic
- 3310-3323 Sh, dk-gy, mic, vsilty
- 3323-3335 SS, med-gy, vsilty, v liming, vfgv-med-gr, <sup>both fish fossils</sup> crin & sdy silty ls in part
- 3335-3350 SS, med-gy vsilty, liming, vfgv  
crin;

- 3350 - 3375 ss, med lt gy, limy, silty vf-fgr
- 3375 - 3400 sh, med-gy, silty, <sup>sl limy</sup> vf-fgr
- 3400 - 3415 slts, dr-gy, limy, clayey
- 3415 - 3490 sh, dk-gy, clayey, interbedded  
w/ med-gy, <sup>vf slts, sl limy</sup> c-gr slts
- 3490 - 3500 slts, med lt gy to med-gy,  
sl limy, vf sdy, c-gr
- 3500 - 3520 sh, dk-gy, clayey
- 3520 - 3580 ss, med lt gy, sl limy, mic,  
silty, vf-fgr - grain  
size decreases <sup>downward</sup> to mostly c-gr silt
- 3580 - 3590 sh, dk-gy, clayey
- 3590 - 3680 slts, med-gy, mic, sl limy,  
clayey
- 3680 - 3700 sh, dk-gy, silty
- 3700 - 3725 slts, med dk gy, mic, <sup>sl limy</sup> clayey
- 3725 - 3780 sh, dk-gy, silty
- 3780 - 3820 sh, dk-gy, sl silty, clayey
- 3820 - 3845 sh, dk-gy, mic, silty
- 3845 - 3905 sh, dk-gy, sl silty, clayey
- 3905 - 3920 slts, med-gy, sl limy, <sup>vf sdy</sup> mic, clayey

- 3920 - 3945 ss, med-gr, v silty, limy, vf gr
- 3945 - 3952 ls, med dk-gr, silty, v sdy, f gran;  
f-mul sd grs ; fms frags
- 3952 - 4035 sh, dk-gr, silty to clayey
- 4035 - 45 ss, med-gr, v silty, sl limy, vf gr
- 4045 - 65 ss, med lt-gr, limy, silty, vf-fgr
- 4065 - 4100 slts, med-gr, <sup>med lt-gr</sup> f mic, limy, vf sdy
- 4100 - 4115 slts, med-gr, ~~limy~~, v f sdy,  
c-gr
- 4115 - 4139 sh, dk-gr, clayey

TD 4139

Carmichael



Arkansas Louisiana Gas Co

Mc Gowan #1

E-log begins @ 517'

16-9N-14W

Conway County, Ark.

- 10-40 ss, gel-br, iron stained, mottled -  
mic, <sup>silty</sup> med gr; scatt c-grs
- 40-60 ss, med-gr, silty, <sup>mic</sup> v fgr;  
non-limy
- 60-100 silts, med-gr, mic, clayey
- 100-140 sh, dk-gy, mic, v silty
- 140-200 silts, med dk gr; mic, ~~mic~~ clayey;  
interbedded w/ <sup>med</sup> dk-gy v silty sh
- 200-235 silts, med-gr, mic, <sup>+ silty</sup> v fgr, c-gr
- 235-240 ss, med lt gr, mic, <sup>silty</sup> silty, v fgr
- 240-270 sh, dk-gy clayey; dk-br siderite
- 270-290 ss, med ~~gr~~ gr, mic, v silty, silty,  
v fgr; fine gr quartz, siderite
- 290-320 sh, dk-gr mic, silty
- 320-350 sh, med dk gr, mic, silty
- 350-378 ss, med dk gr, v silty, ~~mic~~ mic, v fgr;  
clay matrix

- 370 - 405 sh, dk-gy, clayey to silty
- 405 - 450 ss, med-dk gy, <sup>to med-gy, mic</sup> silty, v f gr
- 450 - 470 silts, med dk gy, mic c-gr
- 470 - 490 sh, dk-gy, clayey to silty
- 490 - 535 silts, <sup>med-gy to</sup> med dk-gy, f-mic, <sup>silty</sup> v f sdy-c-gr
- E-log begins  
517
- 535 - 550 sh, dk-gy, silty, interbedded w/  
med dk-gy mic v f sdy silts
- 550 - 585 silts, med dk-gy mic, sdy;  
silt & v f - med sdy-grs in clay matrix
- 585 - 620 sh, dk-gy, <sup>clayey to</sup> silty
- 620 - 645 silts, med-gy, mic
- 645 - 705 sh, med dk-gy mic, v silty
- 705 - 715 silts, med dk-gy, mic, v f sdy  
clayey
- 715 - 740 sh, dk-gy, silty
- 740 - 870 sh, dk-gy, <sup>to dk</sup> clayey, <sup>sl</sup> siderite;  
non lamy
- 870 - 935 sh, dk-gy to blk, <sup>mic</sup> clayey to  
silty (granular); trace siderite
- 935 - 40 silts, med dk-gy, mic, c-gr  
clayey

- 940 - 965 Sh, dk-gy, clayey to silty
- 965 - 985 Ss, med-gy, limy, silty; f-cgr;  
qtz grains; siderite; layers of  
dk-gy sh.
- 985 - 1005 Shale, dk-gy, clayey to silty
- 1005 - 1020 Ss, med-gy, limy, v silty,  
f-med gr; scattered qtz grains  
med dk-gy mic slts layers + matrix;  
crin
- 1020 - 1028 Ss as above but more clayey
- 1028 - 1050 Ss med lt-gy mic, <sup>limy</sup> v-f-gr
- 1050 - 1065 slts, med-gy, mic <sup>slimy</sup> v-f-gr, c-gr
- 1065 - 1210 Sh, dk-gy v mic, clayey to silty
- 1210 - 1235 Ss, med-gy, v limy, v silty, f-mudgr;  
scattered c-grs;  
lime & clay matrix; crin
- 1235 - 1308 Sh, dk-gy, v mic, clayey to silty
- 1308 - 1330 Ss, lt-to med-gy, v silty, v f-gr
- 1330 - 1400 Sh, dk-gy, v mic, sl silty;  
trace of siderite
- 1400 - 1420 Sh, dk-gy to blk, clayey, fissile

1480 - 1490 Sh, dk-gy, clayey; interbedded w/ dk-gy, clayey, v f gr ss; sd grs in clay matrix

1490 - 1492 Shale, bentonitic, med lt gy, flaky, soft; small lt-gy + orange mineral inclusions; abundant in sample 1490-1500

Y  
None seen  
2 bore or below  
directly large  
such large  
pieces may be  
clump -  
much clump  
below

1492 - 1545 Sh, dk-gy clayey  
1540 - 50 - Bentonite as above - large pieces - 3/4" long

1545 - 1555 ss, med-gy, v silty, sl lining f-med-gr; scattered c + vc grs; clay matrix

1555 - 1565 ss, med lt gy, sl lining, mic, silty, v f - f gr

1565 - 1625 Sh, dk-gy, clayey  
Bentonite as above - large pieces to 1" - sample 1570-80  
Entire sample too fine of ss - may be probably out of place, but re-check to 1100 showed no bentonite

- 1625 - 30 ss, med lt gy, mic, sl limy, silty, v f-gr; pieces of bentonite = slumps?
- 1630 - 38 ss, med lt gy, limy, silty, f-vcgr, qtz grains, crin
- 1638 - 48 sh, dk-gy, mic, sl silty
- 1648 - 1670 ss, lt br gy, limy, silty, f-vcgr; scattered qtz grains; crin
- 1670 - 1690 ss, lt-gy, sl limy, <sup>silty</sup> f-med gr
- 1690 - 1710 ss, lt-gy, <sup>limy</sup> f-cgr; drif-free crin
- 1710 - 1740 ss, lt br gy, v limy, f-vcgr; qtz grains; crin & other foss
- 1740 - 1853 ss, lt-gy, limy, f-vc-gr v qtz grains; drif-free; trace crin
- 1853 - 1882 ss, lt br gy, v limy, sl silty, f-vc grs; many crin & other foss frags; poss sdy silty ls in lower few feet
- 1882 - 2000 sh, dk-gy, f-mic, sl silty, v sl limy; pyrite

2000 End of F-log - 3'-5' samples  
below to ~~206~~ 2070, then 10' samples to TD  
scatt c-grs

2000-16 ss, med lt gy, limy, f-med gr' A  
crin; drills free

2016-2057 ss, med lt gy, limy, v fgr v g<sup>not</sup>  
~~scatt med f-med grs~~

2057-2165 sh, dk-gy, clayey silty; non limy

2165-2200 ss, med lt gy, v limy, f-med gr'  
crin

2200-10 slts, med-gy, mic, clayey, v fsky

2210-2250 sh, dk-gy, clayey

2250-2290 sh, dk-gy, sl silty

2290-2340 ss, med-gy, silty, limy, v fgr

2340-2360 ss, med lt gy, v limy, v f-gr',  
foss frags

2360-2380 ss, med-gy, v silty, <sup>limy, mic</sup> sl v fgr

2380-2400 sh, med dk gy, silty;

2400-2410 sh, dk-gy, sl silty

2410-2480 ss, med lt gy to med-gy, silty  
v limy, v f-gr

- 2480-2515 ss, med-gr, vsilty, limy,  
vs f-gr; trace med-grs; crin
- 2515-2520 sh, dk-gr, silty
- 2520-2560 ss, med lt gr, limy, f-med gr;  
trace c-grs + grains
- 2560-2600 silts, med dk-gr, <sup>limy</sup> vsdy, clayey;  
trace f-med sd grs; foss  
fragms
- 2600-2640 sh, dk-gr, clayey, <sup>to silty</sup> non-limy
- 2640-2670 silts, med-gr, mic, vsdy;  
interbedded w/ dk-gr mic  
silty sh
- 2670-2680 sh, dk-gr, silty
- 2680-2700 (out of place) ss, med lt gr, limy, f-med gr; crin
- 2696-2700 sh, dk-gr silty; interbedded  
w/ c-gr silts
- 2700-2730 sh, dk-gr, silty; siderite
- 2730-2750 sh dk-gr silty; granular in part
- 2750-2780 sh, dk-gr silty; interbedded w/  
med dk-gr & f to f sdg silts



- 2780-90 SS, lt-gy, <sup>mic</sup> sl/lim, vf fgr;  
trace med-grs
- 2790-2810 silts, med dk gy, mic, vf sdy,  
clayey
- 2810-2880 sh, dk-gy, <sup>mic</sup> v silty; some c-gr silts
- 2880-2930 sh, dk-gy, vf mic, silty
- 2930-50 SS, med lt gy, silty, sl limy,  
vf fgr
- 2950-2970 SS, lt-gy, limy, vf-fgr;  
foss frags
- 2970-2980 SS, lt-gy, sl limy, vf-fgr
- 2980-2990 <sup>(out of place?)</sup> SS, med dk gy, v silty
- 2990-3000 SS, med lt gy, sl limy, vf-fgr
- 3000-3010 silts, med gy, vf sdy, \*
- 3010-3040 SS, br gy, silty, v limy, f-gr;  
~~trace~~ foss frags
- 3040-3070 SS, lt-gy, sl limy, vf-fgr
- 3070-3160 sh, med dk-gy, f-mic, silty, v sl limy,  
pyrite
- 3160-3230 SS, dk-gy, f-mic, sl/silty, sl limy;  
siderite, pyrite; granular in part

3230 - 3260 sh, dk-gray, clayey, limy,  
fissile; lime increases downward  
in last 150', silt decreases  
trace pyrite

TD 3260

Mc Gowan

Stephens Prod Co

#1 W. G. Ward

13, 8N - 12W

E - long 400 - 4011

Faulkner County, ARK

- 390 - 420 Silts, med dk gy, mic, clayey, shaly
- 420 - 440 Sh, dk-gy, silty
- 440 - 460 ss, med lt gy, limy, f-cgr
- 460 - 495 Silts, med-gy, mic, v. sdy, c-gr
- 495 - 500 Sh, dk-gy, silty
- 501 - 540 Silts, med dk-gy, f-mic, clayey
- 540 - 565 Silts, med dk-gy, med gy, f-mic, v. sdy
- 565 - 595 Silts, med dk-gy, f-mic, interbedded w/ dk-gy silty sh
- 595 - 700 Sh, med dk-gy, silty, mic
- 700 - 2000 - NS
- 2000 - 2080 Silts, med-gy, mic, <sup>sl/m</sup> c-gr
- 2080 - 2103 Sh, dk-gy, mic, silty

- 2103 - 2115 ss, med lt gy, silty, limy, f-cgr;  
crin.
- 2115 - 2135 sh, dk-gy, mic, v silty; interbedded w/  
med-gy v f sdy slts
- 2135 - 2165 slts, med-gy mic, vt-sdy
- 2165 - 75 ss, med lt gy, silty, v limy, f-vc grs;  
crin
- 2175 - 2185 ss, med lt gy, limy, v f-f gr
- 2185 - 2240 sh, med dk gy, f-mic, sl silty, f-sdy
- 2240 - 2245 lg, br-gy, silty, sdy, foss;  
f-med sdy; crin & other foss frags
- 2245 - 2260 ss, med dk gy, f-mic, silty.
- 2260 - 2273 ss, lt gy, sl limy, f-cgr
- 2273 - 2278 ss, dk-gy, clayey, silty, v f-fgr
- 2278 - 2325 ss, lt-gy, sl limy, f-vc grs;  
drills free; crin
- 2325 - 2335 slts, med-gy, mic, c-gr
- 2335 - 2340 ss as above
- 2340 - 2374 sh, dk-gy, mic, silty.
- 2374 - 2381 ss, med lt gy, limy, f-med gr, crin
- 2381 - 2410 sh, med dk gy, mic, v silty;  
interbedded w/ med-gy, mic, c-gr slts

- 2410 - 2455 Sh, med dk gy, mic, silty
- 2455 - 62 Silts, med dk gy, mic, vfsdy, clayey
- 2462 - 2490 Sh, med dk gy, mic, v silty; , interbedded  
w/ med-gy mic c-gr silts
- 2490 - 2535 Silts, med dk-gy, mic, <sup>vfsdy</sup> c-gr
- 2535 - 2560 SS, med-gy, silty, limy, f-med-gr,  
crin; trace c-grs
- 2560 - 2620 Silts, <sup>med lt gy to sl limy</sup> med-gy, vfsdy, c-gr
- 2620 - 2690 SS, med lt gy, v silty, sl limy  
v fgr
- 2690 - 2720 SS, med-gy, silty limy, vt-cgr;  
crin; qtz grains
- 2720 - 2728 Silts, med-gy, mic, vfsdy
- 2728 - 2745 SS, lt-gy, limy, v f-fgr
- 2745 - 2790 Sh, med dk gy, mic, v silty
- 2790 - 2887 SS, dk-gy, clayey
- 2887 - 2920 SS, lt br gy, limy, f-med gr
- 2920 - 2950 SS, lt-gy, limy, f-gr - sucrose
- 2950 - 2980 SS, med lt gy, silty, v f fgr
- 2980 - 3010 Silts, med-gy, sl limy, vfsdy, c-gr

- 3010 - 3028 - Sh, dk-gy, clayey
- 3028 - 3032 Ls, lt br gy, silty, sandy, foss; f ~~and~~ sd grs; crin
- 3032 - 3057 Sh, dk-gy, silty.
- 3057 - 3080 Silts, med dk-gy, sl liming, rf sdy
- 3080 - 3102 SS, med-gy, silty, sl liming, rf-f gr; trace med grs
- 3102 - 3140 Sh, dk-gy, clayey
- 3140 - 3166 SS, lt-gy, sl liming rf fgr silty in lower part.
- 3166 - 3243 Sh, dk-gy, <sup>slim</sup> clayey
- 3243, 3250 SS, lt-gy, sl liming, rf fgr
- 3250 - 3255 SS, med-gy, silty, rf fgr
- 3255 - 3270 Silts, med dk-gy, <sup>mk</sup> rf sdy; nm-liming
- 3270 - 3290 SS, med lt-gy, silty, sl liming rf f gr
- 3290 - 3300 Sh, dk-gy, clayey
- 3300 - 3325 SS, med lt-gy, med-gy, sl silty, <sup>to liming</sup> liming, f c gr; trace rc grs

- 3325-45 SS, med lt gy, sl/silty, limy to  
v limy, vf - med-gr; foss frags  
~~layers~~ beds with c + vc grs
- 3345-60 SS, lt gy to med gy, silty  
sl limy vf - fgr; trace  
med grs
- 3360-3372 silts, med-gy, mic, v/sdy
- 3372-3378 sh, dk-gy, clayey
- 3378-3387 SS, med lt gy silty, vf-fgr;  
trace med grs
- 3387-3410 sh, dk-gy, fine, sl/silty
- 3410-3415 SS, med lt gy, limy, f-cgr
- 3415-3425 SS, med-gy, v/silty, v limy, f-med gr
- 3425-3440 silts, med-gy, sl limy, v/sdy  
interbedded w/ lt gy vfg gr ss
- 3440-3487 sh, dk-gy, <sup>silty to</sup> clayey, interbedded w/  
med-gy v/sdy silts
- 3487-3510 SS, lt-gy, <sup>mic</sup> sl limy, vf-fgr
- 3510-3520 SS, med lt gy, silty, sl limy vfg
- 3520-3570 silts, med lt gy to lt gy, sl  
limy, v/sdy; interbedded w/  
dk-gy silty sh



3570-3595 sh, <sup>med</sup> dk-gy, f mic, v silty

3595-3645 silty, med dk-gy, mic, sl liming,  
clayey

3645-3775 sh, dk-gy, silty to v silty

3775-3785 sh, med lt gy, <sup>silty</sup> liming, f-med-gr;  
c & v c-grs; con

3785-3830 ss, med lt gy, <sup>liming</sup> f-med-gr;  
~~trace c-grs~~ drills free

3830-3870 sh, med dk gy, v f mic, silty,  
granular, non-liming

3870-3920 sh, dk-gy, f-mic, silty

3920-3925 silty, med-gy, v sl liming,  
c-gr

3925-3935 ss, med-gy, silty, sl liming,  
v fgr

3935-3960 silty, med-<sup>mic</sup>gy, v f sdy;

3960-3980 sh, dk-gy, mic, clayey  
to silty

3980- sh, med dk <sup>mic</sup>gy, v sl liming,  
v silty & granular

TD 4011 ward

The Carter Oil Co

Morrilton Lumber Co #1

33 9N 17W

RTHog

Conway County Ark

40 - 3500

Flog - 1400-2450

- 0-20 <sup>weathered yet-br</sup> ss, v silty, mic, vfg ✓
- 20-30 sh, dk-gy, v silty
- 30-85 silts, med-gy, <sup>slims</sup> mic, c-g ✓  
vf sdy in lower part - below 70'
- 85-265 <sup>sfts</sup> ~~ss~~, med lt gy, <sup>toned-gy</sup> silty, <sup>mic</sup> vfg sdy  
non-limy, c-g ✓
- 265-275 sh, dk-gy, clayey
- 275-340 silts, med-gy, mic, vfg sdy, c-g ✓
- 340-350 silts as above & dk gy sh
- 350-360 sh, dk-gy, v silts
- 360-385 silts, med dk gy, mic, clayey,  
siderite
- 385-405 sh, dk-gy, f-mic, silty,  
siderite
- 405-330 silts, med dk gy, clayey,  
vf to f sdy

330 - 350 sh, dk-gy to gy blk, clayey,  
siderite; interbedded w/ slts as above

350 - 472 sh, dk-gy to gy black, clayey

472 - 500 slts, med dk gy, fine, vfsdy  
v sl lining

500 - 503 <sup>out of place?</sup> ss, med lt gy, silty, r f-gr;  
drills free

503 - 530 sh, dk-gy, silty; interbedded  
w/ med-gy, vfsdy slts

530 - 550 slts, <sup>med-gy to</sup> med dk-gy, clayey,  
v f sdy

550 - 560 slts, med ~~dk~~ gy, v f sdy, c-gr

560 - 590 ss, med-gy, silty, v f sdy;  
layers dk-gy sh

590 - 715 slts, med-gy to med dk-gy,  
v f s dy, c-gr; beds  
dk-gy <sup>silty</sup> sh

715 - 735 sh, dk-gy to gy blk, clayey;  
to silty; beds med dk-gy  
slts

735 - 785 slts, med-gy, <sup>turned dk-gy</sup> v f sdy, c-gr

- 785 - 810 silt, med dk gy, clayey c-gr  
 and dk-gy clayey sh
- 810 - 835 sh, dk-gy <sup>to dk</sup> mic; v silty <sup>to clayey</sup>, fossiliferous
- 835 - 865 silt, med dk gy, clayey c-gr; <sup>+</sup>  
~~dk-gy clayey sh~~ scattered  
 rf - med sd grs in part; beds  
 dk-gy sh
- 865 - ~~890~~ 920 sh, dk-gy, mic, v silty to  
 clayey; siderite
- 920 - 940 silt, med dk-gy; c-gr; dk-gy  
 clayey sh; siderite
- 940 - 980 sh, dk-gy <sup>to dk</sup>, clayey to silty
- 980 - 1060 sh, dk-gy to black, clayey
- 1060 - 1061 sh, lt greenish-gy, bentonitic.  
 Y  
 inclusions - clear ~~sh~~  
 (sample 1060-65)
- 1065 - 1135 silt, <sup>med-gy to</sup> med dk gy, clayey, c-gr
- 1135 - 1145 ss, med lt gy, silty, silty  
 p-vc grs; many gts grs
- 1145 - 1185 ss, med lt gy to med-gy,  
 silty <sup>silty</sup> v s - med-gr; trace  
 vc grs

- 1185 - 1220 ss, lt-gy, sucrose, vfgv;  
non-limy to vsl limy
- 1220 - 1235 ss, med ltgy, silty, vfgv
- 1235 - 1250 ss, lt-gy, sucrose, vfgv
- 1250 - 1260 silty, med-gy, vfgv, c-gv
- 1260 - 1300 sh, dk-gy, silty
- 1300 - 1332 sh, dk-gy to blk, clayey
- 1332 - 1335 ss, med-gy, v silty, sl limy  
f-med gv
- 1335 - 1355 ss, lt-gy, f-gv; dulls free
- 1355 - 1375 ss, med ltgy, silty, vfgv
- 1375 - 1410 silty, med dkgy, clayey;  
beds dk-gy ss
- 1410 - 1430 sh, med dkgy, <sup>to dk-gy -</sup> v silty
- 1430 - 1475 sh, dk-gy to blk, clayey
- 1475 - 1480 ss, med-gy, v silty, vfgv
- 1480 - 1530 sh, dk-gy to gy blk, silty, clayey  
non-limy
- 1530 - 1550 sh, dk-gy to blk, clayey
- 1550 - 1575 ss, med-gy, silty, pyritic,  
vsl limy, vfgv

- 1575 - 1710 sh, med dk <sup>to dk gy</sup> gy, sl silty, <sup>tr dk-br</sup> siderite in upper part
- 1710 - 1790 sh, dk-gy to blk, clayey; trace of siderite
- 1790 - 1885 sh, dk-gy, sl silty, v sl limy
- 1885 - 1898 ss, med lt gy, ~~med gy~~, v sl limy, v f-f gr
- 1898 - 1940 sh, dk-gy to blk, clayey
- 1940 - 1960 ss, lt br gy, v sl limy, v f-f gr
- 1960 - 1975 ~~ss as above~~; interbedded w/ dk-gy sh  
ss, med-gy, limy, silty, v f-f gr.
- 1975 - 1980 ss, lt br gy, silty, limy, trace c-gr  
f-med gr; crin
- 1980 - 2045 slts, ~~br-gy~~ <sup>to med dk gy</sup> f-mic, clayey
- 2045 - 2075 slts, med-gy, <sup>v silty</sup> f-mic, v f-sds  
c-gr
- 2075 - 2085 slts, med dk gy, f-mic, clayey
- 2085 - 2125 sh, med-gy, silty, v limy, f-med gr; c-grs; crin; drills free in part

- 2125 - 2145 Ls, med-gr, foss, sdy, f-c grs  
crin, brach
- 2145 - 2160 SS, med lt gr, ~~liming~~, f-gr;
- 2160 - 2185 Ls, med lt gr, silty, sdy,  
foss, rf - med sd grs, con  
trsee rc grs
- 2185 - 2208 Sh, med dk gr, silty
- 2208 - 2220 Sh, med-gr, liming, f-sdy c-gr
- 2220 - 2265 Sh, dk-gr, silty to clayey  
v sl liming
- 2265 - 2295 Sh, med lt gr, sl liming, c-gr
- 2295 - 2318 SS, med lt gr, sl liming, rf ~~med gr~~  
scatt med-c grs silty  
in lower 5 feet
- 2318 - 2350 Sh, dk-gr, silty to clayey
- 2350 - 2400 Sh, dk-gr, silty, sl liming  
X interbedded w/ med dk gr silts  
(Sample 2379-81 - bentonite (slump?))
- ~~2400 - 2412 silts, med-gr, sl liming, f-sdy~~
- 2400 - 2402 SS, med-gr, silty, liming,  
f-c gr



- 2402 - 2460 Sh, dk-gy, clayey, sl lining  
crin
- 2460 - 2480 Lg, med-gy, med lt gy mottled,  
silty, rfsdg; crin; sl oolitic-  
dk oolites
- 2480 - 2503 ss, lt br gy, v lining, f-gr;  
drills free
- 2503 - 2530 ss, lt-gy, lining, v fgr;  
drills free in part
- 2530 - 2570 ss, med lt-gy, lining r f-fgr
- 2570 - 2600 slts, med-gy, sl lining, c-gr  
interbedded w dk-gy sh - sh  
increases downward
- 2600 - 2620 sh, dk-gy, clayey  
Y  
Hard  
(Bentonite (slung?) 2600-08)
- 2620 - 2640 ss, med-gy, silty, lining, f-gr  
Y  
trace med grs.  
(Much hard bentonite 2620-35)
- 2640 - 2710 sh, dk-gy, silty to clayey
- 2710 - 2720 ss, med-gy, sl lining, v silty,  
v f-med gr
- 2720 - 2735 ss, med-gy, sl lining, v silty,  
v f-gr

- 2735 - 2750 sh, dk-gy, clayey, non-lim
- 2750 - 2755 ss, med-gy, v silty, v fgr
- 2755 - 2830 sh, dk-gy, clayey, lim
- 2830 - 2880 sh, dk-gy clayey; v silty lim
- 2880 - 2895 silts, med-gy, sl lim, fine-gr,  
interbedded w/ dk-gy silty sh
- 2895 - 2970 sh, dk-gy, silty to clayey; non-lim  
interbedded w/ med dk-gy silts
- 2970 - 3010 silts, med-gy, fine, sl lim,  
~~vt-fgr~~; interbedded w/ dk-gy sh
- 3010 - 3100 sh, dk-gy, silty <sup>fine</sup> non-lim;  
interbedded w/ med-gy v silty lim  
silts.
- 3100 - 3110 ss, med-gy, v silty, sl lim, vt-fgr
- 3110 - 3125 ss, med lt gy, silty, sl lim,  
vt-fgr
- 3125 - 3150 ss, lt-gy, v lim, vt-fgr;  
crin & other foss frags - ls in  
part
- 3150 - 3175 ss, lt-gy, lim, vt-fgr;  
drills free in part

- 3175 - 3181 SS, med dk gy, v silty + shaly, sl lining, rf gr
- 3181 - 3210 SS, lt-gy pl lining, rf-fgr
- 3210 - 3220 SS, med lt gy, silty, sl lining, rf-fgr
- 3220 - 3230 SS, lt-gy ~~to med lt gy~~ lining, rf-fgr
- 3230 - 3245 SS, med-gy, v lining, silty, rf-fgr; crin
- 3245 - 3290 SS, med-gy, silty, sl lining, rf-fgr
- 3290 - 3305 SS, med dk gy, v silty, sl lining, rf-fgr
- 3305 - 3323 SS, dk-gy, silty, no lining
- 3323 - 3345 silt, med dk gy, sl lining, c-gr, interbedded w/ dk-gy silty sh
- 3345 - 3360 SS, dk-gy, silty, ~~med dk-gy~~ c-gr silt
- 3360 - 3380 silt, med dk gy, <sup>granular</sup> v silty, sl lining; dk-gy sh beds
- 3380 - 3420 sh, dk-gy, sl lining, clayey; interbedded w/ dk-gy, granular clayey silt

3420-3440 sh, dk-gy, clayey, <sup>siderite</sup> ~~to silt~~,  
trace med dk gy c-gr silt

3470

~~3440-3470~~ sh, dk-gy clayey, <sup>non-lim</sup> ~~no liming~~  
trace of siderite

~~3470 - sh as above; med dk-gy, silt/liming  
slump c-gr silt~~

3470-3490 sh as above and med-gy silt  
liming c-gr silt

3490-3502 sh, dk-gy (liming), clayey

3502 TD Morrilton Lumber Co

Shell Oil Co

Stewart No 1

E-log 386-9383

23-6N-14W

Fauquier Co, Ark

200-70 sh dk-gy, v fine, sl silty, non-lim  
~~# gypsum~~ → siderite in all samples

270-280 sh, dk-gy, silty; pelocypod? frag;  
to v f silty

280-435 sh, dk-gy, ~~st silty~~ clayey  
sub-sissile; non-lim; trace siderite  
in each sample  
to about 350

435-500 sh, dk-gy, clayey to  
silty & mic; v <sup>dk</sup>grsils in part;  
gypsum

500-630 sh, dk-gy, mic, sl silty

630-1040 sh med dk gy, mic, silty, non-lim  
Gypsum 900-1040  
sl mic

1040-1180 sh, dk-gy, clayey, non-lim

1180-1195 slts, med-gy, v fine

1195-1250 sh, dk-gy, mic, sl silty; beds

med-gy v fine slts; fresh balltz  
(in most samples  
below here)

1250-1280 sh dk-gy, clayey

1280-95 (very likely  
2 samples out  
of place) probably silty sh  
ss, med lt gy, sl lim, v fgr

1295-1340 sh, dk-gy, clayey, to sl silty  
(no ss)

1340-1360 sh, med lt gy, silty, mic, sl lim,  
v f-fgr (30' log, but looks OK)

1360-1370 silts, med-gr, v fady

1370-1395 sh, dk-gr, clayey

1395-1402 ss, med lt gr, silty, mic, v silty, v f gr

1402-1400 <sup>v?</sup> ss, dk-gr, clayey, v mic, fissile <sup>samples</sup> 1726-1730 siderite 1840-50 Bentonite? 1870-60

1900-2100 sh, dk-gr, v f mic, s/silty 1980-clear gr 34 37P 1980-90 stratified w/ gyp? 20m

2100-2200 sh, med dk-gr, v f mic, silty; qtz + gypsum, trace siderite

2200-2412 sh, dk-gr, v f mic - non limy, tr siderite - Thin bed v for ss in lower 40'

2412-2470 ss, med lt gr, <sup>mic qtz silty</sup> v f - f gr, interbedded w/ dk-gr sh <sup>poor sample 5- - 255 to 2530 -- abruptly changing to 21/24</sup>

2470-2580 sh, dk-gr, v f mic, silty @ 2550; tr siderite

2580-2595 ss, med lt gr, <sup>mic qtz</sup> silty, v f - m gr, trace ~~mic~~ grs <sup>sl limy</sup>

2595-2628 sh, med dk-gr, clayey to silty (samples are ss (2600-2690 - 2614))

2628-2632 ss, med lt gr, v silty, v f gr

2632-2675 sh, dk-gr, silty - clayey silts in part

2675-2690 ss, med lt gr, mic, silty, sl limy, v f - c gr; tr qtz grains; crin?

2690-2880 sh, dk-gr, <sup>(+gr - dk in upper 30')</sup> mic, s/silty, v slow acid reaction, non-limy (v granular - evenly silty?)

~~Handwritten note:~~  
Max row

- 2880 - 2925 sh, dk-gy, silty; beds, silts <sup>vf silty</sup>
- 2925 - 2935 ss, med ~~dk~~ gy, <sup>dirty</sup> silty, <sup>clayey</sup> v f - cgrs
- 2935 - 2960 ss, dk-gy, mic, v silty, v f - cgrs <sup>At 2940? - 2945? - 2948?</sup>  
tr med grs; clean ss - c-grs near base
- 2960 - 2990 sh, dk-gy, clayey, non-limy <sup>finely & evenly granular</sup>
- 2990 - 3050 silty, med dk-gy, mic, clayey <sup>Y? looks dk on reflect</sup>  
Sample 3050-60 Yel Bent? slow acid react = sideritic
- 3050 - 3170 sh, dk-gy, ~~to blk~~, v f mic, non limy <sup>clayey</sup>
- 3170 - 3175 ss, med ~~dk~~ gy, v silty, mic, v f - cgrs <sup>dirty</sup>
- 3175 - 3600 sh, dk-gy to v f mic, non limy <sup>to 92-92K</sup>  
Tr of slow acid reaction # 3550-3600
- 3600 - 3790 sh, dk-gy to blk, v f mic, non limy  
~~to dk-gy siderite; tr #~~
- 3790 - 4050 sh, dk-gy to blk, v silty, non limy; <sup>v fine</sup> ~~to~~ siderite & pyrite <sup>dk-gy</sup>
- 4050 - 4515 sh, dk-gy, v f mic, non limy <sup>above 4400 - 515 sideritic below</sup>  
~~to~~ siderite; tr pyrite
- 4515 - 4550 ss, med dk-gy to med gy, silty, mic, clayey <sup>may be 1/5</sup>  
sl limy, v f gr (poor samples)
- 4550 - 4600 silts, med-gy, mic, clayey, v f sng <sup>limb shale?</sup>  
(limb shale?)
- 4600 - 4640 silts as above & fragments of <sup>some could be but probably not</sup>  
clear gtz (free gtz grains)
- 4640 - 4670 silts, med dk-gy, mic, v silty, non limy <sup>clayey</sup>  
(relatively uniform clay matrix w/ silt-silt mica & gtz to f sd)



(tr Siltstone as above <sup>vsl limy</sup> 1/2w)

4670 - 4700 sh, dk-gy, silty v tr pyrite

4700 - 4900 sh, dk-gy, v fine, non limy; tr silts <sup>as above</sup> Pyrite; sl sideritic

4900 - 5210 sh, dk-gy, v sl silty, non-limy; to milky qtz <sup>mul-gy to</sup> v sl sideritic react

5210 - 5380 silts, med dk-gy, mic clayey <sup>sl limy</sup>; c-gr; siliceous cement <sup>trace clear qtz</sup>

5380 - 5425 sh, dk-gy, v fine, sl/silty, non limy; v sl sideritic reaction

5425 - 5510 silts, med-gy to med dk-gy, dk-gy silty sh @ 5460-65

5510 - 5550 sh, dk-gy, v silty, p-mic, sl limy; mic <sup>sl silty</sup> of gr ss; siliceous cement; sl limy

5550 - 5795 sh, dk-gy, v fine, <sup>sl silty</sup> non limy

v sl limy; sl sideritic in upper part

5795 - 5845 sh, med dk-gy, v silty, sl limy

5845 - 5870 silts, med-gy, sl limy, v silty; siliceous cement. 1/2w dk-gy sh (Fisch??)

5870 - 5900 sh, dk-gy, silty, <sup>probably</sup> extant to 5920 or more sh in lower part

5900 - 6070 sh, dk-gy, p-mic, sl silty; non limy

6070 - 6175 sh, dk-gy, sl silty, sl sideritic, v pyrite; sh, med dk-gy, sl silty, sl sideritic, v pyrite

6175 - 6390 sh, dk-gy, v fine, sl silty, sl limy

6390 - 6400 mic tr pyrite; tr dk-bz siderite; <sup>more limy in lower part</sup>

6400 - 6560 sh, med dk-gy, v fine clayey silty limy, mic

6560 - 6620 sh, dk-gy, v fine, v sl limy; well sorted - 1/2w dk-gy sh 6470-6500 sl sideritic, tr clear qtz

6620 - 7250 sh, dk-gy, v fine, sl silty, non limy; <sup>esp lower part</sup> v sl limy; tr pyrite

slow reaction = sl sideritic 7150-

7250 - 7365 sh, dk gy, ~~st~~ silty, vsl limy

7365 - 7470 sh, dk-gy, v f mic, vsl limy  
mddk gy mic silty silt @ 7250-60, 7240-78/8, 7345-66

7470 - 7520 sh, dk-gy, ~~st~~ silty, vsl limy  
to sl limy

7520 - 7650 <sup>7600</sup> silt, <sup>mul</sup> sh, dk-gy, ~~st~~ silty, vclayey, sl limy to

limy - ~~below 7600 est~~ increases downward  
beds dk-gy silty sh

7650 - 7820 sh mul dk-gy, <sup>limy</sup> v f gy silt in part, silty limy

7820 - 7870 sh, dk-gy, limy to sl limy, silty  
Free calcite, pyrite

7870 - 8085 sh, dk-gy to blk, vsl limy  
tr free calcite, tr pyrite

8085 - 8358 sh, dk-gy to blk, sl limy to

8358 non-limy - (no E-log) sls, ity

8360 - 8600 sh, dk-gy to blk, v f mic,

sl of granular, non-limy

to vsl limy

8600 - 9383 sh, dk-gy to blk, v f granular, <sup>same</sup>

non-limy - - greasy-graphitic

luster

9383 TD (see over)

Stewart Re-run

8085 - 8350 Sh, dk-gy, silty, vsl limy, fine  
No F-log

tr dk-gy siderite; lower part

8300 - 8350 ± very silty; in

part dk br gy sl limy slts

8350 - 8360 No sample; set C59 @

8350 - samples below here

contains no slts & have

a very different appearance

may be formation contact & may

be drilling conditions

8360 - 8500 Sh, dk-gy to gy-blk, vsl limy,

much v f <sup>to fine</sup> fine; ~~much~~ fine pyrite

esp in upper 20"; even textured,

<sup>finely</sup> granular, sl greasy appearance

8500 - 9383 Sh, dk-gy, vsl limy <sup>much</sup> fine,

v finely granular; tr pyrite.

lower 1/2 lime decreases

downward & lower 2/3 largely

non-limy; gypsum in lower

part half

TD 9383

Sunray DX Oil Co

Edgar Wright #1

16 - 8N - 6W

E-log

311 - TD

White Co. Ark.

- 0-10 NS
- 10-20 ss, weathered lt yell-gy, mic,  
sl silty, f-c gr
- 20-55 ss, med lt gy, sl silty f-gr;  
fere med to c grs
- 55-65 sh, med-gy, mic
- 65-190 ss, med lt gy, mic, sl silty,  
vf to ~~med~~ gr; tr ~~med~~ grs  
interbedded w/ med-gy mic sh  
& silts; alternate <sup>thin</sup> beds  
of relatively clean ss &  
beds of sh & silts - sd<sup>grs</sup> to c  
in silts & sh
- 160-170 - tr grs  
gran s
- 180-190
- 190-220 sh, med dk-gy, silty; beds  
med-gy mic <sup>clayey, shaly,</sup> silts

220-240 ss, med-gy to med dk gy, r silty  
+ clayey, f- med-gr pyrite  
(sd grs in clay & silt matrix); <sup>at 230m clay ss</sup> beds  
med dk-gy sh; tr crin

240-310 sh, dk-gy silty, <sup>mic</sup> silty;  
rf to med sd grs in slab  
(gradational w/ above); siderite

310-400 NS

E-log begins 311

311-380 - probably ss

380-400 - sh as below

400-430 sh, dk-gy, clayey to silty  
siderite

430-440 silty, med-gy, mic, rfsdy

440-450 ss, med-gy, silty, limy, rf to  
med-gr; crin

450-460 ss, med-gy, silty, limy,  
f-to med-gr; tr c to c grs

460-480 ss as above interbedded w/  
med dk gy mic sh + silts

480 - 492 ss, med lt gy, sl silty, limy,  
f-med-gr; scattered c & v grs;  
~~few shale beds~~

492 - 511 sh, dk-gy, silty, v fine

511 - 540 ss, med lt gy, sl silty<sup>mic</sup>, sl limy, f-med-gr

540 - 550 ss, med-gy, sl silty, limy,  
f-to med-gr; crin, ost, gast, brach

550 - 567 ss, med lt gy, sl silty, sl limy<sup>mic</sup>, f-med-gr

567 - 572 sh, dk-gy, sl silty,

572 - 585 ss, med lt gy, sl silty, limy, f-to med-gr,  
scattered c grs to grains; ~~crin~~  
~~other foss frags~~; lower half  
v limy & v fss - - may be <sup>silty</sup> sdy ls;  
crin, brach, ost & other foss frags

585 - 607 slts, med dk gy, limy, clayey, v sdy

607 - 630 ss, med-gy, silty, limy, f-med-gr,  
crin, brach, & other frags

630 - 685 slts, med dk gy, mic, sl limy,  
clayey, sdy; v f to med sd.  
in upper 10', only sl & f sdy below



- 685 - 732 slts, med dk gy, mic, clayey;  
 1/w/ dk-gy mic, silty sh
- 732 - 755 sh, dk-gy, f-mic, clayey
- 755 - 760 - ss, med-gy, v limy, f-tomed-gr;  
 crin, bryo, etc
- 760 - 775 sh, dk-gy, clayey
- 775 - 790 ss, lt-gy, sl limy, f-gr
- 790 - 813 ss, med-gy, sl silty, limy,  
 f-to med-gr; crin,
- 813 - 845 sh, med dk gy, mic, v silty;  
 beds med-dkgy<sup>mic</sup>, slts
- 845 - 865 sh, dk-gy, clayey; pyrite
- 865 - 890  
 c-grs  
 ss, med-gy, silty, limy, f-med gr;  
 scatt c-grs; crin, bryo, brach
- 890 - 895 ss, med-gy, v silty, sl limy,  
 v f to f-gr; scatt med grs;  
 crin; brachs; 1/w med dk-gy,  
 mic slts
- 895 - 948 slts, med dk-gy, clayey, mic,  
 sl limy; foss frags
- 948 - 985 sh, dk-gy, mic, silty to  
 clayey; siderite



- 985-990 ss, md-gy, silty, limy, v f to  
f-gr; crin
- 990-1017 sh, dk-gy, mic, clayey; siderite  
slickensides
- 1017-1030 ls, lt br gy, silty, v sdy,  
ls  
clastic; crin, bryoz, brachi
- 1030-1040 ss, md-<sup>mic</sup>gy, v silty, sl limy,  
v f gr
- 1040-1070 silty, md dk gy, mic, clayey,  
sl limy, v f sdy
- 1070-1090 silty, md dk gy, mic, limy,  
clayey, v f sdy; crin
- 1128  
1090-~~1105~~ silty, md dk gy, mic, clayey,  
sl limy, v f sdy
- ~~1105-1128~~
- 1128-1158 ss, dk-gy, clayey
- 1158-1183 ss, lt-gy, sl limy, v f to f gr;  
trace foss frags; trace mdgrs,  
but mostly well sorted
- 1183-1205 sh, dk-gy, clayey

1205 - 1215 Sltz; med dk gy, mic<sup>sl limy</sup>, clayey, vf lit  
sdy; 1/w/ med gy ~~limy f-med-gr~~  
~~ss, crin~~

1215 - 1235 SS, med lt gy, sl limy, f-to  
med-gr; tr c grs; crin;  
coaly plant material

1235 - 1250 SS, med lt gy, limy, med-to c gr;   
crin

1250 - 1260 SS, med-gy, silty, mic, vf gr

1260 - 1295 SS, med-gy, v clayey, limy, f-med-gr;  
crin, brachs; 1/w dk-gy mic sh  
~~1280-1290 - cgrs & gran s~~

1295 - 1305 sh, dk-gy, clayey

1305 - 1328 SS, med lt gy, limy, f-med gr;  
scattered cgrs

1328 - 1340 sh, dk-gy, clayey trs / silty

1340 - 1482 sh, dk-gy, clayey

1482 - 1500 Sltz, med dk gy, clayey, sl limy,  
mic, vf sdy; crin

1500 - 1580 SS, med lt gy to med-gy, mic, sl limy  
silty, vf to f gr; dk-gy  
mic, silty sh partings

1580 - 1640 ss, med lt gy, sl liming, <sup>mic</sup> f-gr;  
thin dk-gy shale partings,  
scattered med-gr ~~in ss~~ trace glau  
1620-30

1640 - 1655 ss, med lt gy to med-gy, silty, sl  
liming, mic, f to med-gr <sup>one v. l. gr</sup> in ss  
<sub>(Sample 1660-70)</sub>  
PG ?  
CH ?  
silty & clayey partings

1655 - 1690 sh, dk-gy, mic, silty to  
clayey (even the clayey part  
seems "contorted" and not  
fissile in any given direction --  
different from shales above.

1690 - 1710 slts, med dk gy, <sup>clayey</sup> mic, v f sdy  
partings dk-gy mic sh

1710 - 1760 ss, med lt gy to med-gy, silty,  
Foss 1/3 pieces  
1735-40  
sl liming,  
grauwackes, v f to f gr;  
1/4 med dk gy mic slts &  
dk-gy mic sh

1760 - 1770 slts, med dk gy, mic, clayey

1770 - 1780 ss as above

1780 - 1800 slts, med dk gy, mic, clayey, v f sdy;  
grades into sh below

- 1800 - 1820 Sh, dk-gy, mic, silty;  
beds mic slts
- 1820 - 1838 Sh, dk-gy, clayey, <sup>to silty</sup> vf mic
- 1838 - 1862 Sh, dk-gy, mic, silty
- 1862 - 1880 Sh, dk-gy, mic, silty; w  
med-gy silty, clayey, vf to f grs
- 1880 - 1930 ss, med dk-gy, mic, clayey,  
silty, vf to f gr; beds of  
dk-gy mic sh
- 1930 - 1950 ss, med-gy, mic, silty, sl  
limy to limy, vf to f gr; <sup>tr med grs</sup>  
fiss frags below 1850
- 1950 - 1970 ss, med-gy, mic, silty, clayey,  
Looks more like sl limy, vf to f-gr; tr  
PG than ch,  
but could be  
either med grs; lenses & layers  
dk-gy mic, slts & sh --
- <sup>1970?</sup> PG  
ch many sd chips <sup>contain</sup> ~~slts~~ silty  
layers
- 1970 - 2020 Sh, med dk-gy, mic, silty;  
laminae vf sdy slts

2020 - 2035 Sh, dk-gy, mic, silty; laminae  
med dk gy mic silts; thin beds  
sl limy silty, <sup>foss,</sup> v f gr ss; crin  
tr med to c grs

2035 - 2050 Sh, dk-gy, silty

2050 - 2090 Silts, med dk gy, mic, clayey,  
v f sdy; 1/w med lt gy,  
silty, v f to f gr ss; tr  
siderite; tr crin

2090 - 2150 Silts, med dk gy, mic, v clayey,  
slimy, v f sdy; 1/w dk-gy silty  
sh; burrows & tubes

2150 - 2190 Sh, dk-gy, mic, silty; 1/w/  
med dk gy mic silts

2190 - 2210 As above + tr silty, clayey  
beds w/ scatt med to c sd

2210 - 2220 Sh, dk-gy, mic, silty;  
1/w med dk gy mic silts

2220 - 2295 Sh, dk-gy, clayey, <sup>to silty,</sup> v f mic.  
pyrite

2295 - 2315 Silts, med dk gy, mic, sl limy,  
v f sdy; <sup>to med sl</sup> bruch, crin, pyrite, siderite

2315 - 2350 sh, dk-gy, mic, silty,  
vf sdy; burrows?

2350 - 2365 sh, ~~med dk-gy~~, ~~clayey silty~~  
vsilty; 1/4 dk-gy mic  
~~silty~~ clayey silts; siderite

2365 - 2380 sh, dk-gy, silty

2390 - 2425 sh, dk-gy, silty; beds  
med dk gy vf sdy sl  
limy silts; tr crin. pack;  
tr. siderite

2425 - 2455 sh, dk-gy, silty tr  
siderite; ~~tr crin~~ <sup>2430</sup> ~~vs~~ <sup>fine?</sup> ~~strat?~~

2455 - 2485 sh, dk-gy, clayey; tr siderite

2485 - 2567 ss, med lt gy to med-gy, mic,  
silty, <sup>sl limy</sup> vt. gr; dk-gy  
sh, + med-dk gy silts  
partings + lenses;  
burrows?

2567 - 2660 { sh, dk-gy, fissile, clayey,  
non-limy; ~~part~~ thin lenses  
+ beds med lt gy to med  
dk gy vsilty vs <sup>sd</sup> ~~gy~~ silts

vs <sup>ss</sup> in samples  
probably slump?

2660 - 2760 Sh, med dk gy, vsilty; lenses  
med dk gy ~~to~~ silts <sup>tr</sup> siderite  
many silty fillings <sup>to 2700</sup>  
(burrow in part)

2760 - 2820 Sh, med dk gy, vsilty;  
lenses med-gy v/sdy, silts - ~~targety~~  
burrow fillings in part; tr siderite

2820 - 2890 ~~Sh, &~~ silts, med dk gy, v clayey,  
v f sdy; tr siderite

2890 - 3030 Sh, med dk gy, mic, silty;  
lenses med dk gy mic, silts <sup>v f sdy</sup>

3030 - 3087 Sh, dk-gy, clayey, fissile,  
non-limy

3087 - 3110 SS, med dk gy, <sup>mic</sup> v clayey, silty, limy  
55 v f to f gr; tr med grs;  
1/w dk-gy silty sh

3110 - 3170 silts, med dk gy, mic, clayey  
v f sdy, sl limy

3170 - 3260 Sh, dk-gy, silty; 1/w  
med dk gy mic, silts <sup>v sl limy, v f sdy (in part)</sup>

3260 - 3284 Sh, dk-gy, clayey to silty; 1/w  
med-gy v f sdy sideritic silts



3284 - 3310 ss, med lt gy to med dk gy, mic,  
ss v sl limy, v clayey & silty.  
v f gr <sup>top</sup> in part, clean & siliceous  
1/2 dk-gy silty sh to clayey sh  
(mostly 3290 - 3310)

3310 - 3324 ss, lt-gy to med lt-gy, sl limy,  
(v silty in part) v f to f gr

3324 - 3335 ss @ s above 1/2 dk-gy silty sh

<sup>ss</sup> sh imp? locks OK  
3335 - 3350 sh, dk-gy, sl limy, clayey;  
siderite; splintery fracture  
in part

3350 - 3380 ss, dk-gy, clayey, fissile;  
sample 3365-3370  
little if any pks  
splintery fracture in part  
non-limy, but some v sl siderite (?) reaction

~~3380 - sh, dk-gy, clayey, fissile,  
non-limy~~ in lower part

3380 - 3600 sh as above, <sup>tr</sup> pyrite  
sh, dk-gy, clayey, fissile;  
sideritic <sup>to v sl sideritic</sup> to pyrite

3600 - 3740 sh, dk-gy, clayey, fissile;  
to pyrite; to siderite  
splintery fracture in part

- 3740 - 3850 sh, dk-gy, clayey; siderite <sup>in part</sup>; splintery fracture in part
- 3850 - 4140 sh, dk-gy, clayey; splintery fracture; siderite @ 3910, 4030, 4050.
- 4140 - 4270 sh, dk-gy to gy-blk, non-lim, clayey; sl harder; splintery fracture
- 4270 - 4340 sh, dk-gy, clayey, non-lim; many "slickensides" faces, but no fault indicated - - tends to core into well bore
- 4340 - 4500 sh, dk-gy, clayey; splintery fracture in part; ~~traces~~ "slickensides"; trace siderite & pyrite
- 4500 - 4535 sh, dk-gy, clayey, fissile; "slickensides"; splintery fracture tr pyrite
- 4535 - 4597 sh, dk-gy to gy blk, sl lim, hard, sl silty; tr pyrite; siderite

4597 - 4620 sh, dk-gy, <sup>f. mic,</sup> limy, <sup>f. silty</sup> barry, non-  
fissile; pyrite

4620 - 4640 sh, dk-gy, sl limy, fissile  
clayey

4640 - 4700 sh, dk-gy, sl limy, sl silty,  
<sup>to fissile</sup>  
non fissile, pyrite -- in "lumps"  
to spherules  $\frac{1}{4}$ " in diam; tracin

@ 4685 4695 siderite

4700 - 4780 sh, dk-gy, sl limy, sl silty; <sup>to clayey</sup>  
splintery to non-fissile

4780 - 4835 sh, dk-gy, sl limy, sl silty,  
clayey; tr pyrite, siderite

4835 - 4855 ~~sh~~ <sup>silts</sup> dk-gy, <sup>mic,</sup> limy, <sup>clayey</sup> silty;  
non-fissile; pyrite

4855 - 4870 sh as above

4870 - 4900 silts, mod dk gy, <sup>f. mic,</sup> limy,  
clayey

4900 - 4929 silts, <sup>to mod dk gy</sup> mod-gy, <sup>mic,</sup> v limy;  
c of silt ~~to silt~~ agg res

4929-4960 Ch, med lt gy to dk-gy, limy,  
~~dolitic~~, transl, dense; many  
tiny inclusions -- pyrite, spicules,  
~~dol rhombs~~ + small "cloudy" spots  
tiny fracture fillings of gtz

4960-4970 Ch, med to dk gy, limy, dolitic,  
sub-transl, ds; inclusions - pyrite,  
dol rhombs

4970-4988 Lg, med dk gy, silty, r dolitic,  
f-gran to f-xlla; many <sup>to vs to fsl</sup> dol  
rhombs in silty limestone matrix in  
little <sup>to heavy</sup> res; 1/w med-gy to  
dk gy ds cs;

4988-5000 Lg, lt br gy, sl dolitic <sup>to dolitic</sup>, f-gran  
to ds; tiny dol rhombs;  
res gtz silt + silt-sized pyrite  
; foss frags - <sup>brachy</sup> Crin? Ost? ~~#~~  
tr <sup>tiny</sup> short doubly terminated gtz xls

5000-5020 Lg, med-gy sl silty, sl dolitic,  
ds to f-gran; pyrite;  
oolitic to oolitic in part; brachy;  
res gtz silt & tr tiny gtz xls

5760-62 Ls, 1/4 olive 99 to mud 11  
99, sl sdry, dolie, dsto  
of gran; some olive 99  
ds ls contains little sd  
& little dol; other pieces  
contain <sup>some dol</sup> ~~much~~ rhombic +  
much v s sd; 3/4 tr doubly  
terminated gty xlls  
1

TD - Driller - 5762

Schlumberger 5745

5020-60 Ls, med-gy, silty, dolie, ds to  
f-gran; dol rhomb bs; <sup>light</sup> gtz silt  
res; pyrite, brachs, ost(?) &  
other fess frags

5060-5095 Ls as above but more dolie;  
dolimitized molls of crin, brach, ost  
lt-gy <sup>f-gr</sup> silty agg res

5095-5130 Ls, med lt gy to med-gy, silty,  
~~med~~ dolie, ds to f-gran;  
~~st~~ <sup>gtz</sup> silt & rf to fsd in  
lt gy silica matrix res; crin, brach  
pyrite

5130-5150 Ls, med lt gy <sup>to med-gy</sup>, silty, dolie,  
ds to f-gran; gtz silt &  
rf to med sd res - trc sd;  
brach

5150-5185 Ls, med lt gy, v dolie, sdy,  
f-gran lds; much gtz  
silt & rf sd & tr med-c  
sd - may be <sup>limy</sup> dolomite  
in part - or <sup>limy</sup> dolie silt

5600 - 5640 Ls, med lt ggy to lt  
olive ggy, sl vs sdy, dolie,  
f-gran; 1/w olive ggy,  
v sl sdy, sl dolie ds/s;  
doubly terminated gtz xlls  
tr f to med sd; trace brachs

5640 - 5675 Ls, lt olive ggy, ds to  
vs xlls; <sup>light</sup> res - tr f sd,  
silica silt aggregate <sup>many</sup> idically  
terminated gtz xlls <sup>small</sup>  
der some slender; brachs

5675 - 5690 Ls as above, but tr  
f to med sd, v dolie in  
part; brachs + gtz xlls

5690 - 5760 Ls, med lt ggy to lt olive ggy,  
sdy, dolie, ds to f-gran;  
tr med to c sd @ 5710;  
doubly terminated gtz xlls;  
trace brachs; res mostly  
light, + is v f ~~sd~~



5185 - 5195 Ls as above; <sup>(plattin-like)</sup> 1/2 w med-gy  
sl sdy <sup>sl dolie</sup> ds ls; vf sd + silt  
res - tr foss - <sup>vs xlln</sup> pyrite

5195 - 5220 Dol, med lt gy, limy, s/ty,  
vf sdy, vf xlln; ~~res~~  
~~sl~~ dol rhombs in ls matrix,  
much silt + vssd res; 1/2 w trace  
med-gy <sup>ds</sup> dolie ls; dead  
oil in dol

5220 - 5375 Ls, med lt gy to med-gy,  
vf sdy, dolie, f-gran, <sup>to ds</sup> much  
vf sd <sup>foss (lost?) frags</sup> res; (just sl more  
limy than above - - mixture  
lt gy v sdy ls w/ dol rhombs +  
med-gy sl sdy ds ls w/ dol rhombs)

5375 - 5430 Ls, med-gy, sdy, ~~sl~~ dolie,  
ds to f-gran; vf to tr  
f sd; much as above but  
tr f sd + little more of the  
ds ls - <sup>dense</sup> dove gray + little  
sd + only trace dol in part  
(over)

5430-5480 Ls, med lt gy to lt olive gy,  
dolice, sdy, ds; <sup>3/4</sup> ~~tr~~ <sup>slotted</sup> ~~tr~~,  
to moderate amt v f sd; dol  
rhombs; brachs (several)  
tr lt br gy foss ch (piece)  
tr f-<sup>mid</sup> sd

5480-5525 Ls, med lt gy to lt olive gy,  
dolice, sdy, ds to f-gran;  
vf to ~~tr~~ f sd; dol  
rhombs; mixture v sdy  
dolice ls + sl sd. dolice ls  
tr short doubly terminated qtz xls.

5525-5555 Ls, med lt gy, v f sdy,  
dolice; much v f sd res;  
brachs; @ 5540 tr lt gy  
"soapy" v f sdy lining  
sh (bentinite?); tr f-mid  
sd @ 5550

5555-5600 Ls, med lt gy, ~~tr~~ <sup>3/4</sup> sdy,  
ds to f-gran, v f tr + mid sd;  
v dolice in part; tr brach