

E Glick DFC Logged

E.E. Glick  
Bldg 25, DFC

1. Phillips-Sand Gap 8-12N-19W - Pope County

2 Pan American #1 Hart 4-2N-1W

3 Sunray DX - Morris 12-7N-2W

4 Pan Am Bosnick 1-2N-1E

5 Fayette Ark. Western - Moody 9-9N-26W

6 Mobil - Ison Unit 12-6N-27W

7 Midwest - Sebastian Coal & Mining  
15-5N-32W  
15-5N-32W

Well Samples  
Keep

Book ①

E. Slick  
Oct 8, 1964

Phillips Petroleum Co.

#1 Sand Gap,

E-log 545-T.D.

8-12N-19W,

Pope County, Ark.

0-10 NS

10-20 Sh, yel-br to yel-gy, weathrd; ss, silty, f to vc gr; gran slms all be surficial debris -- no sd ~~and~~ and little weathrd shale in next sample

20-30 Sh, dk-gy, silty, mic

~~30-40~~ 30-40 Sh, dk-gy, mic, silty; 1/4w med dk gy v f <sup>f</sup> sdy, silts; tr siderite

~~60-~~ 60- Sh, dk-gy, mic, silty; 1/4w med dk gy v f to f sdy, silts; siderite

70-102 silty, med-gy, mic, c-gr; tr dk-gy <sup>+br-gy</sup> tough siderite

102-120 SS, br-gy, silty, <sup>sideritic,</sup> being v f to vc gr; <sup>gtz gran.</sup> siderite, crin & other foss frags

- 120 - 130 SS, as above but dk-gr sh partings
- 130 - 140 SS, med lt gr, mic, f-gr; scattered c + vc grs; dk-gr sh + med-gr silts partings
- 140 - 160 SS, med lt gr, <sup>some</sup> f-med gr; scattered c - vc grs + grains, <sup>thin</sup> dk-gr sh partings; pyrite
- 160 - 180 SS as above, but drills free
- 180 - 190 NS
- 190 - 195 SS, med lt gr, sl silty, f-to med-gr; tr vc grs;
- 195 - 245 sh, dk-gr, sl silty; pyrite; siderite
- 245 - 55 SS, br-gr, limy, silty, clayey, f- to med-gr; crin, brach, and other foss frags; siderite + other Fe minerals
- 255 - 260 sh, dk-gr B

260 - 270 ss, br-gy, lim, v silty, clayey,  
vf to f-gr; crin,

270 - 305 ss, br-gy, lim, silty, f to med gr;  
~~ent~~ much Fe-oxide - <sup>between gt 390s</sup> - some  
in limy "pellets"; crin

305 - 315 silty, med dk gy, mic, clayey;  
few dk-gy sh

315 - 320 - ss, med-gy, lim, silty, f-gr;  
crin

320 - 335 silty, med dk-gy, c-gr; few  
dk-gy silty sh; grades into ss  
below

~~330 - silty, med-gy, limy, clayey,  
c-gr;~~

335 - 360 ss, med-gy, limy, v silty  
f to v c gr; crin; few  
med-gy silty & dk-gy sh; glauc

~~360 - ss, med-gy, silty, vf to  
f-gr; few dk-gy sh &  
med-gy silty~~

360 - 370 sh, dk-gy, mic; few  
med-gy, c-gr silty

370-390 ss, med-gr, limy, v silty,  
rf to med-gr <sup>much</sup> glauc; 1/w  
med dk gr glauc <sup>mic</sup> c-gr silts.

390-405 ss, med-gr, limy, v silty,  
rf to c-gr <sup>much</sup> glauc; crin  
& other foss frags; beds  
limy glauc c-gr silts.

405-430 sh, dk-gr, mic, silty

430-480 ss, ~~med-gr~~ <sup>limy,</sup> med-gr <sup>trvgrs</sup> free drilling; ~~to~~  
foss frags

480-510 ss, lt br gr, limy, silty,  
f to med gr; tr c grs;  
tr foss frags; pyrite  
drills free

510-520 ss as above; + siderite  
(Boone? ch in sample -  
probably contamination)

520 - 540 ss, med lt gy, limy, vsilty,  
f to med gr; tr c-grs; glauc  
(Poor samples & base of  
silty ss is + 10')

540 - 546 As below ?? - gassy, set  
@ 545

546 - 550 Sh, dk-gy, silty, fissile.

550 - 560 Sh, dk-gy, silty; ifw  
med dk gy clayey <sup>silty</sup> silts  
(Chert in sample is Boone?)

560 - 604 Sh, dk-gy, mic, silty;  
pyrite

604 - 643 Silts, med dk gy, mic, clayey  
sl limy; f to med gr

643 - 680 Silts as above; ifw dk-gy mic <sup>silty</sup> spl

680 - 694 Sh, dk-gy, mic, silty; v sl limy  
to non. limy

694 - 714 Silts, med dk gy, mic, clayey, ~~sl~~ <sup>sl</sup> med  
gr; v sl limy ~~if at all~~; sideritic  
cement

- 714 - 760 Sh, dk-gy, mic, vsilty, <sup>sl siderite</sup> ~~concr~~ <sup>in part</sup>; low beds slts as above
- 760 - 788 slts, med dk gy, mic, clayey, sl sideritic, f to c gr; vfsty + sl limy in part
- 788 - 803 slts, med dk gy, mic, clayey, sl limy, ~~sl sideritic~~, c-gr; vfsty in lower part
- 803 - 818 Sh, dk-gy, soft (flaky fissile) limy, clayey; tr tubes & other foss; sltr phos
- 818 - 822 Ls, med dk gy, v pyritic, silty, foss; crin, brach, etc; sltr phos
- 822 - 840 Sh, ~~med~~ dk-gy, flaky, fissile, limy; 20% dk br gy siderite; thin foss zones = ls?; foss fragments, including Archimedes
- 840 - 865 Sh, dk-gy, flaky fissile, limy; foss frags, esp thin shelled polygyrals; <sup>crin. ost</sup> ~~pyrite~~ <sup>pyrite</sup>; br <sup>2%</sup> ~~3%~~ siderite, but less than above

865-875 slts, dk-gy, clayey, vsl limy,  
phosphatic; tr v f gts sd

<sup>9</sup>875-902 sh, gy-blk, silty, v phosphatic  
sl 'granular', sub-fissile; pyrite

<sup>9</sup>902-912 slts, dk-gy, v limy, v fss,  
clayey, f-to med gr; <sup>many</sup> brachs,  
tr crin; non-plas; probably some  
thin ls beds

912-940 sh, dk-gy, limy, salt, dull  
sub fissile; pyrite

940-962 slts, med dk gy, v limy, clayey,  
f ~~to~~ med-gr; ~~tr~~ fss frags

962-972 sh, dk-gy, limy, dull,  
sub fissile; fss frags

972-986 ls, med dk gy, v silty, f-green  
to f-xlln; res <sup>dk-gy</sup> porous siltagg;  
fss frags, crin, etc

986-995 slts, med dk gy, v limy, clayey,  
f-gr

995-1007 sh, dk-gy, limy, silty;  
fss frags, crin, brach,



1007-1011 Ls, med-gy to med dkgy, vsilty,  
f-xlls to f-gran; crin, brach

1011-1050 Sh, dk-gy, v limy, silty,  
sub-fossil; 1/w med dkgy  
vsilty <sup>granular</sup> ls, brachs

<sup>1085</sup>  
~~1050-1075~~ Sh, gy-blk, sl limy, phosphatic,  
dull, sub-foss; 1/w  
med dk gy v silty gran ls;  
foss frags

<sup>1085</sup>  
~~1075~~-1118 Sh, gy-blk, sl limy, silty,  
v phosphatic; most phos in  
sl "colloid" sh; <sup>much</sup> pyrite  
(Sample 1090 - 1100 best)

~~1115-1~~ Sh, gy-blk, sl limy,

1118-1140 Ls, med-gy, silty to vt sdy,  
f-gran; in part, oolitic;  
res silt-sized <sup>at 3</sup> to rf st - may  
be 50%+; ~~foss frags~~  
1/w med-gy ool <sup>med-silty</sup> ls; crin,  
brach, brys

- 1140-1160 ls, med lt gg to med dk gg, v limy, v f sdy; darker part is v clayey; <sup>silicified in part</sup> pyrit; foss frags
- 1160-1190 ls, lt-gg, f-med xlln; foss frags; tr dol rhombs; ~~stilt~~ siliceous res (10%)
- 1190-1210 ls, lt-gg, f-med xlln; crin; brach; 30% milky white ds cl; tr dol; v little res from ls
- 1210-1230 ls, lt br gg, <sup>siliceous</sup> f-xlln; <sup>tr</sup> foss frags; brach, <sup>crin</sup> 5% limy milky wh cl
- ~~1230-1250~~
- 1230-1250 ls, lt br gg, <sup>siliceous</sup> f-med xlln; foss frags; <sup>crin</sup> ns cl <sup>but silica res</sup> fragments
- 1250-1270 ls, lt-gg, <sup>siliceous</sup> f-xlln; <sup>tr</sup> dark siliceous residues
- 1270-1290 ls, med lt lt gg & med dk gg, v siliceous, f-frag; <sup>hard</sup> heavy silica agg res; may be limy ch ~~in part~~
- 1290-1310 ls, med lt lt gg & med dk gg, v siliceous, f-frag to f-xlln; hard silica res; 20% milky wh limy ch - (sample 75% silica)

1310-1350 NS - - Probably cherty ls (Ely)

1350-1380 Ls, lt-gy + med-gy mottled, siliceous, f-gran; glauc; light to heavy silica res; 40% lt-gy to br gy <sup>figured</sup> <sub>c 2</sub> colate in silica matrix

1380-1428 Ls, <sup>dull</sup> med lt-gy, v siliceous, f-gran, tr glauc <sup>in upper bed</sup>; 40% figured med lt gy lim ch; spicules, etc

1428-1445 Ls, med lt-gy, f-gran to f-xlla; ~~tr-gy ch~~ <sup>tr pink xlls</sup>; DR <sup>grains</sup> ~~plac~~ ~~grains~~ locally; pyrite

1445-1484 Sh, dk-gy to dk br-gy, 'hard, d-silty, sub-fissile; <sup>granular impact-</sup> spurs?; tr-pyrite

1484-1500 Ls, med <sup>dk</sup> ~~lt~~ gy, v dolic, ~~silty~~ siliceous, f-gran to f-xlla; 40% blue-gy to <sup>dk</sup> br-gy ds dolic, lim ch

1500-1528 Ls, med dk-gy, v dolic, f-xlla; 40% dk br-gy ds transl ch; tr lt b & blue-gy sil dolic; ls ch; glauc <sup>+ silty in lower part</sup> & pyrite; <sup>15</sup> <sub>ost 3</sub>

1528-1645 Ls, med-gg, delic, f-gran to  
v f xlln; del rhombs in calcite  
matrix; pyrite, <sup>silica</sup> ~~silica~~ <sup>porous</sup> egg  
res <sup>from</sup> ~~the~~ most pieces; ost

1645-1654 Ls, med lt gg, delic, f-gran;  
del rhombs & silica as above,  
<sup>decreasing downward</sup>  
but ~~less~~; pyrite, ost.

~~1654-1660 As above but less del & silica  
to  
lt pinkish-gg & delic  
med-c xlln ls~~

1654-1667 Ls, lt pinkish-gg, st delic, med to  
st. Clair  
c xlln; ~~also 50% med-gg~~  
delic, ~~silica~~ f-gran to f-xllns  
~~brch, crin, ost~~ pink crin &  
other foss frags; <sup>lithology</sup> ~~Cason~~ mixed  
into lower St Clair - several  
chips w/ both

1667-1672 ~~St Clair~~ slls f, med-gg, v limy,  
Cason  
v delic, ~~slls~~, phosphatic,  
pyrite (may be 30% carbonate)

6672-1700 Ls, lt pinkish gy, med xlla, <sup>to c</sup> brachs, crin, est, pyrite  
F'vale

1700-1710 Ls, med lt gy, <sup>stg, sl dolie,</sup> f-gran to ds;  
Phthin much f to c rd & fr sd (limy)  
ss in part

1710-1720 Ls, lt olive gy, <sup>vsl dolie,</sup> ds

1720-1730 Ls, med-gy, <sup>tr silicif</sup> dolie, dense to  
vf xlla; tr gr gy clay

1730-1750 Ls, med lt gy, ds; sl  
dolie in a few bits; tr  
gr gy sh

1750-1767 Dol, med-gy, sdy, f-gran to  
Phthin? vf xlla; vf to f ~~sd~~ sd;  
tr ds ~~sl dolie~~ ls as above - shony?

1767-1780 Dol, lt br gy, <sup>to med 2/4</sup> sdy, vf xlla;  
F'erton? scalhrd to c rd & fr sd; trace  
white dolie <sup>to</sup> f-sd gr ss

1780-1800 Dol as above; f to med sd

1800-1820 Dol, lt br gy, sdy, f-gran to  
vf xlln; f to md ~~sd~~ rd & fr sd;  
1/w lt gr gy soft chy sh

1820-1830 Dol, lt br gy, f-gran to vf xlln;  
sdy in part; f to md rd & fr sd

1830-1840 - Dol, lt br gy, f-gran to vf xlln;

1840-1890 Dol, lt br gy, <sup>f-gran to</sup> sdy, vf xlln; f to  
md rd & f sd; fr c sd.

1890-1900 As above, but less sandy

1900-1930 Dol, lt br gy, vsdy, f-gran to f xlln;  
<sup>fr c sd</sup>  
f to md rd & fr sd; intr br gy tunnel  
ch in upper 10'

1930-1945 Dol, lt br gy, slsdy, f-gran to f xlln;  
1/w lt gy sl dolie f to md gr ss

1945-1960 Dol, lt br gy, sdy, f-gran to f xlln;  
f to md rd & fr sd; 1/w ~~lt~~ gr gy  
soft chy sh.

1960-1980 As above but no sh

1980-2010 Dol, lt br gy, f-gran to f xlln;  
f to md rd & fr sd in part

2010 - 2038 Dol, lt br gy to med dk gy,  
sdy, f-grains to v f xlls;  
rd + fr f to c sdy, mostly in  
the lighter part; tr aggr  
clay sh

2038 - 2060 Dol, lt br gy, sl sdy, f-grains  
to v f xlls; ~~rd + fr f~~ red fr sl;  
few beds of lt olive gy sl  
dolite ds ls

2060 - 2070 As above but 50%+ ls w/  
<sup>very few</sup>  
~~little~~ dol rhombs but trace  
of silica

2070 - 2080 Ls, lt olive gy, sl dolite, <sup>to dolite</sup> f-grains  
to v f xlls; sdy in a few pieces;  
tiny doubly terminated gt; xlls in  
all pieces

2080 - 2100 Dol, lt br gy, <sup>sl thin,</sup> sdy, f to med xlls;  
scattered f to med rd + f sdy, grs.  
~~scattered in a~~

2100 - 2110 Dol, ~~lt~~ med-*gy*, *sl/sdy*,  
f-gran to *vf xlls*; scattered  
f to med *rd* & *fr sd*

2110 - 2150 Ls, *Holite-*gy** to med-*gy* <sup>*sl/dolite to dol*</sup> *sl/sdy*;  
*ds* to f-gran; ~~lt~~ scattered  
f to ~~rd~~ *rd* & *fr sd* in some  
pieces

2150 - 2160 Ls, as above & bits of  
*lt gy* <sup>*flac*</sup> *ling* *ss*; *gr-*gy* sh*

2160 - 2170 Ls, *Holite *gy**; *dolite*, *slgy*,  
*ds* to ~~lt~~ f-gran <sup>*tr*</sup> in *gr-*gy* sh*

2170 - 2190 Dol, *lt br *gy**, *sl/sdy*, f-gran to  
*vf xlls*; *slw ls* as above; *tr* *tr* *xlls*  
f to med *rd* & *fr sd*; *gr-*gy* sh*  
*tr foss (gas?) frags*

2190 - 2240 Dol, *lt br *gy**, *sl/sdy*, f-gran  
to f-*xlls*; <sup>*scatt*</sup> f to med *rd* & *fr sd*

2240 - 2270 Dol, med-*gy*, *sl/sdy*, <sup>*sl/ling*</sup> f-gran  
to *vf xlls*; scattered f *sd*;  
*gr-*gy* pyritic sh*

2270 - 2280 Ls, med *lt *gy**, *dolite*, *sl/sdy*,  
f-gran to *vf xlls*; *dol xlls* in  
*ls*; <sup>*scatt*</sup> ~~lt~~ *rd* & *fr sd*



2280 - <sup>2300</sup>2290 - Dol, med lt gg, f sdly,  
f-gran to vf slt; scattered  
vf to f sd; + v med lt gg  
dolic f to med gr ss.

~~2290 - 2300~~ (Probably still in section)

TD 2300 - Sand Corp

Pan American Pet

#1 Hart

C NW $\frac{1}{4}$  4-2N-1W

Monroe County, Ark

3163 Top of Paleozoic (20' samples to 3200)

3163-3210 sh, dk-gy, f-mic, v silty;  
only sl fiss

3210-3300 sh, dk-gy, <sup>to blk,</sup> sl v f mic, st  
fissile, v sl limy.

3300-3450 sh, gy-blk, fissile, v sl  
limy or sideritic (slow  
reaction that last & lasts)

3450-3600 sh, gy-blk, sub fissile;  
slow acid reaction, <sup>in part</sup> sl harder  
& more brittle than above

3600-3865 sh, gy-blk, sub-fissile; tr  
v slow reaction

3865-3895 sh as above; <sup>v f silty</sup> slow med-gy f-mic slts &  
tr med lt gy silty, v s ss.

3895-3960 ss, med-gy to med lt gy, silty, shaly,  
vf to f gr (non limy); many  
small pieces are translucent in acid;  
in part, silica cement & tiny  
qtz veinlets; 1/w med-gy clayey  
silt s, esp 3915-3950

3960-3972 ss, med lt gy, sl silty,  
v sl limy, vf to f gr; tr  
med gr; sl porosity, but  
silica cement in part

3972-4045 sh, dk-gy; relatively silt;  
slow acid reaction.

4045-4110 sh, dk-gy, <sup>micaceous</sup> silty; <sup>but heavy</sup> slow acid  
reaction -- probably sideritic

4110-4280 sh, dk-gy, v sl silty; sl  
slow <sup>acid</sup> reaction

med-gy to  
4280-4395 slts, med dk gy, clayey, fine;  
sl tr v f sd; slow acid react

4395-4845 sh, dk-gy, v sl silty,  
sub fissile to fissile;  
relatively soft; slow  
acid reaction; gypsum veinlets throughout

4560 - tr pyrite

↓  
4610 - 4700

4845-5000 sh, dk-gy, sl silty, v f  
mic, sub fissile; slow acid  
reaction to ~~no reaction~~; gypsum  
veinlets

5000-5110 sh, dk-gy, <sup>to gy-blk</sup> sub fissile; splintery  
<sub>in part</sub> structure; little or no acid reaction  
gypsum

5110-5405 sh, dk-gy, sl silty, v f mic,  
sub-fissile; v slow acid reaction;  
gypsum

5405-5510 Sh, dk-gy, silty, f-mic  
sub-fissile; sl granular<sup>in part</sup> - c-gr  
qtz silt in clay matrix;  
little or no reaction

5510-5655 Sh, dk-gy, sl silty, f-mic;  
sub fissile  
sl limy to limy

5655-5705 Sh, dk-gy, <sup>to gy-blk</sup> sl limy; sub fissile;  
softer than above

5705-5780 Sh, dk-gy, v limy; w trace of  
dk-gy v clayey v f gran ls

5780-5815 Sh, dk-gy, sl limy<sup>to limy</sup>, sl silty.

5815-5920 Sh, dk-gy, limy, silty, granular;  
pyrite

5920-5970 Slt, dk-gy to med dk-gy limy, clayey  
sl/locus; hard, f-gr; ~~sh as above~~  
non fissile

5970 - 6010 Shs dk-gy, sl limy, hard,  
siliceous; dk-gy clayey, sl  
limy ch in part

6010 - 6028 Ch <sup>well</sup> <sub>ind</sub> dk-gy, sl limy, sub-transl,  
ds

chart

6028 - Sh, dk-gy to gy-blk, siliceous,  
non fissile, non limy; tr dk-gy  
ch w/ pyrite

6060 - 6100 Sh, ~~dk-gy~~ <sup>silty</sup> gy-blk, <sup>pyritic</sup>;  
sl limy <sup>in part</sup>; siliceous in part

6100 - 6130 Sh, dk-gy, sl silty; hard <sup>in part</sup> siliceous;  
tr pyrite

6130 - 6160 Sh, gy-blk, hard (brittle), but  
sub-fissile; tr pyrite; siliceous in  
part

6160 - 6175 Sh, dk-gy, siliceous, sl limy, pyrite

6170 - sh, dk-gy, silty, sl lim,  
siliceous; dull med-gy ds ch.

6175-6220 ch, dull med lt gy, sl lim, sl  
dolice?, dense; 1/w dk-gy sl  
(sh decreases downward & may ~~all~~  
be <sup>in part</sup> slumps; pyrite

(6244?)  
6220-6250 ch, dull med-gy to med lt gy, sl lim  
& dolice?, ds; 1/w 50% dk  
gy sl lim siliceous sh.

(6244?)  
6250 - ch, dull med-gy, lim, dolice,  
~~stony~~, ds; beds of dk-gy  
siliceous <sup>dolice</sup> sh.; tr pyrite

TD Driller 6244

Schlumberger 6242

- 6175 (-5958)  
Op 1882 (-1816)

Sunray DX

#662

GL Morris #1

C  $5\frac{1}{2}$   $5\frac{1}{2}$  NE  $\frac{1}{4}$

12-TN-2W

Woodruff Co, Ark

0-1670 Tertiary + Cretaceous (Complete log in red book)

1670-1705 SS, medlt gr, silty, vfg<sup>to R</sup>

1705-1840 ~~SS~~; dk-gr, sl silty, <sup>sub</sup> fissile  
non liny

~~1840-1978~~ SS, dk-gr, sl silty, non  
liny; ~~not~~ sub fissile

1978-1982 May be f-gr ss bed, but trace of  
ss is in samples above too & very  
little more here

1982-2010 SS as above

SS

SS



- 2040-2090 Sh, dk-gy, sl silty, non limy.
- 2090-2130 SS, lt gy, siliceous, v f gr; 1/w  
dk-gy silty sh
- 2130-2155 Sh, dk-gy, silty to v f sdy
- 2155-2162 SS, med lt gy, silty, clayey, v f gr
- 2162-2422 Silty sh + v f ss as  
shown by E-log
- 2422-2430 SS, med lt gy, silty<sup>in part</sup>, but  
relatively clean, v f to f gr;  
non limy
- 2430-2640 Sh, dk-gy, fissile<sup>+ silty</sup>, non limy  
1/w silty v f gr ss as on E-log
- 2640-2652 SS, med lt gy, mic, silty, sl limy,  
v f gr
- 2652-2800 Interbedded silty v f sdy sh +  
v f gr silty ss
- 2800-2812 SS, med-gy, limy, silty, v f to  
f gr; fiss frags

2812-3000

Sh, med dk gy, silty to v sdy;  
sfts, med-gy, clayey, v f sdy;  
SS, med lg gy to med-gy, silty  
sl limy, v f to f gr - sec E-log

3000-3040

Probably as above (E-log)  
Samples are dk-gy limy  
clay shale

3040-3385

Sh, dk-gy, sl/silty, f-mic,  
<sup>sideritic?</sup>  
sl limy (slower reaction than  
some) subfissile;

3305-3340

Sh, med dk gy, v silty, limy;  
1/w med-gy limy <sup>mic</sup> v f sdy silt

3340-3355

SS, med lt gy to lt gy, sl limy,  
clean, v f to f gr; silty in  
lower 8'

Penn  
Miss

3355-3833

Sh, dk-gy, clayey, limy, <sup>sideritic?</sup>  
fissile; finely silty in part

3833-3870

silt, med-gr, liming, v f sdg, f-mic.  
w/ dk-gr clayey sh, pyrite

3870-3935

sh, dk-gr, silty, sl liming,  
sideritic? w/ silt as above

3935-4070

sh, dk-gr, sl silty, sl liming, <sup>slim</sup>  
clayey

4070-4170

silt, med dk gr, v clayey, liming,  
v f sdg, w/ dk-gr liming silty sh

4170-4230

sh, dk-gr, liming, mic, silty

4230-4240

silt, med-gr, liming, clayey, v f sdg

4240-4303

sh, dk-gr, v silty, sl liming

4303-4310

ss, med-gr, v silty, clayey,  
liming, v f gr

4370-4380 sh, dk-gy, v silty, limy, hard,  
sub fissile

4380-4375 ls, med-gy, v silty & clayey,  
finely mottled

4375-4403 sh, dk-gy, v limy, hard

4403-4420 ls, as above w/ dk gy limy sh

4430-4460 sh, dk gy v limy; thin beds  
ls as above

4460-4490 ls, med-gy, silty, clayey, mottled,  
sub-colitic in part

4490-4500 ls as above - shaley &  
dk-gy ds ch. to siliceous sh

4500-4510 - mostly dull dk-gy clayey  
chert to siliceous sh - non limy

4510-4522 sh, dk-gy, siliceous hard  
- almost chert

4522-4600 Ch, <sup>dull</sup> med dk gy, clayey?, dense;  
non limy

4600-4630 Ch, dull med-gy to lt brgy  
ds; sl limy.

4630-4670 Ch, lt br gy to med-gy,  
r limy, dense; slw med-gy  
R-gran <sup>sl silic</sup> cherty ls

4670-4710 Ch, smky gy, transl, ds;  
beds med-gy <sup>sl silic, cherty,</sup> gran ls

4710-4735 Ch, lt gy to dk gy, ds, transl;  
beds dk-gy <sup>sl limy</sup> clayey? silty, ch or  
siliceous sh; beds ls as above

Chatt -

4735-4745 sh, gy-dk, siliceous, ~~sub~~ sub fiss  
pyrite

477

4745-4820 Chert, lt brgy, <sup>to ltgy to med-gy</sup> ds, transl;  
finely mottled; pyrite

4820-4850 Chert, dull, lt brgy, non lustr;  
chalky luster

4850-4890 chert, lt brgy to med-gy, ds;  
beds dk-gy siliceous ss

4890-4940 ch lt brgy ds, figured,  
mottled,

4940-5015 ch, lt brgy, <sup>sl. delic,</sup> mottled, figured, <sup>oolitoid</sup>  
& med-gy ds; pyrite;

5015-5025 ch, med lt gy, lustr, delic,  
sandy; f to med rd & fr sds  
in part, siliceous ss

5025-5080 ss, lt gy sil lustr, siliceous;  
~~may be~~ (silica cement), f to (gr)  
rd & fr grs

3080

Dol, mid-94, v f xlln;

Samples to 6020 - 1st dol

Not run - all in box 3

(Complete log in red book)

Pan American

#680

#1 Boshnick

1-2N-1E

3500 - Top of Paleozoic

3500 - Sh, gy-blk, fissile; little reaction  
in upper part - limy @ 4,000

4000 ss ~~dk~~ gy-blk, v limy, hard, subfissile  
silty, scleritic

4070 Sh as above + silty mottled ls

4190 - DK-gy clayey? ds chert to  
siliceous sh pyrite

4220-4240 Ch, med dk gy to med-gy, ds  
sl limy, sl dolic

4240-4256 Ch, smky 1<sup>st</sup> gy, ds  
sl limy & dolic

ks



Chatt  
4256

Sh, gy-blk, silicious, hard,  
non-fissile; pyrite <sup>last sample looked</sup>  
to at least 4290 - Top card  
says to 4444 -

Arkansas Western Gas Co.

Taylor Moody #1 (N. Altus Field)

9-9N-26W, Franklin County, Ark

(Samples from Ark. Western Gas Co.)

Samples 2400 - 2700 - <sup>5760?</sup> NO E-log

2400 - 2410 sfts, med-gy, mic, vfsdy, vsl  
limy

2410 - 2420 ss, med lt gy, silty, vf gr; drills free

2420 - 2440 ss, med lt gy, silty, vf med gr iron-limy

2440 - 2468 ss, med lt gy, silty, vf to f gr; drills  
free; beds med dk-gy silty, mic sh

2469 - 2472 sh, dk-gy, fissile; ~~med gy~~  
~~vf sdy sfts~~

2472 - 2520 sfts, med-gy, mic, clayey, vfsdy.

2520 - 2530 ss, med lt gy, silty, f to vc gr

2530 - 2540 " " " " ft. med gr

2540 - 2545 sh, dk-gy, silty

2545 - 2570 ss, med-gy, silty, shaly, vft gr  
lv med-grs

2570 - 2590 silts, med dk-gy, v f sdy; 1/w  
dk-gy sh

2590 - 2630 ss, med-gy silty, v f gr;  
beds dk-gy silty sh

2630 - 2640 ss, med-gy, v silty, mic, v f gr

2640 - 2650 silts, med-gy, mic, v f sdy

2650 - 2700 silts, med dk-gy, v f mic;  
1/w dk-gy sh

2700 - Air drilled, mostly unwashed &  
E-log used for much information

2700 - 2740 - AS above

2740 - 2840 Shale, dk-gy

2840 - 2890 silts, med-gy; v f sdy in part

- 2890-2900 ss, med lt gy, silty, vf gr
- 2910-2928 silty, " " , vf sdy, mic, c-gr
- 2928-2945 ss, med lt gy, silty, vf gr
- 2945-2970 silts, med dk gy, shaly
- 2970-2980 ss, med lt gy, silty, vf gr
- 2980-3005 silts, med dk gy, vf sdy, l/w  
dk-gy sh
- 3005-3020 sh, dk-gy silty
- 3020-3055 silts, med dk gy, mic, vf sdy
- 3055-3082 ss, med lt gy, silty, f to med gr
- 3082-3110 ss, med lt gy, silty vf gr
- 3110-3120 silts, med-gy, vf sdy
- 3120-3140 ss, med lt gy, mic, silty, vf gr
- 3140-3210 silts, med-gy, mic, vf sdy
- 3210-3210 ss, med lt gy, silty, vf to f gr, med
- 3210-3248 silts, med dk gy, canyon, l/w dk-gy sh  
(probably mostly sh)
- 3248-3263 silts, med-gy, mic, vf sdy
- 3263-3290 ss, med lt gy, silty, vf to f gr
- 3290-3354 silts, med-gy, vf sdy, c-gr

- 3354 - 3380 silt<sub>s</sub>, med-gy, mi; i/w  
dk-gy sh
- 3380 - 3408 sh, dk-gy
- 3409 - 3465 ss, med lt gy, vf to f gr  
tr med grs
- 3465 - 3492 silt<sub>s</sub>, med-gy, v<sub>s</sub> sdy,  
c-gr; dk-gy sh @ 3465-70
- 3492 - 3545 sh, dk-gy, clayey
- 3545 - 3609 silt<sub>s</sub>, med-gy, v<sub>s</sub> sdy, c-gr,  
grades downward into silty sh
- 3609 - 3645 silt<sub>s</sub>, med ~~dk~~ gy, v<sub>s</sub> sdy; i/w  
dk gy sh;
- 3645 - 3705 sh, dk-gy, silty; i/w med-gy  
v<sub>s</sub> sdy  
silt<sub>s</sub>
- 3705 - 3770 sh, dk-gy; silt<sub>s</sub> @ 3744-46
- 3770 - 3825 ss med lt gy, vf to f-gr; med grs  
drills free, but powder is limy
- 3825 - 3837 sh, dk-gy silty
- 3837 - 3843 silt<sub>s</sub>, med-gy, c-gr
- 3843 - 3873 sh, dk-gy
- 3873 - 3920 ss, med lt gy, vf to f gr; tr  
med grs; limy dust

- 3920-3930 sh, dk-gy
- 3930-3962 slts, med-gy, vf sdy, c-gr
- 3962-4005 sh, dk-gy, mic, ~~silty~~
- 4005-4014 ss, med lt gy, vf to f gr; <sup>tr mudgrs</sup>
- 4014-4055 sh, dk-gy; silty zone 4028-32
- 4055-4080 ss, med lt gy, mic, vf to f gr
- 4080-4105 slts, med lt gy, mic, vf sdy, c-gr;  
grades into above ss
- 4105-4119 sh, dk-gy, silty
- 4119-4130 slts, med lt gy, <sup>vf sdy</sup> c-gr
- 4130-4140 sh
- 4140-4225 slts, med lt gy, <sup>vf sdy</sup> c-gr; shaly  
in lower part.
- 4225-4320 sh, dk-gy,
- 4320-4333 slts med-gy, c-gr;
- 4333-4347 sh, dk-gy
- 4347-4353 ss, med lt gy, silty, vf gr  
(4360-70 Pir St. piece)
- 4353-4365 sh, dk-gy; bent? 4363 ±
- 4365-4410 slts, med-gy, mic, c-gr;  
sh bits
- 4410-4460 sh, dk-gy, clayey  
(Bentonite chips in upper part)

- 4460 - 4473 ss, med lt gy, <sup>silty</sup> v f to c gr
- 4473 - 4485 sh, dk-gy
- 4485 - 4538 ss, med lt gy, <sup>mic</sup> silty, v f to f gr;  
tr med grs in lower part
- 4538 - 4548 sh, ~~dk~~ dk-gy, silty
- 4548 - 4552 ss, med lt gy, silty, v limy,  
f to med-gr; crin
- 4552 - 4585 sh, med dk gy, sl limy, v silty
- 4585 - 4590 ls, med lt gy, sdy; f-med sd;  
crin
- 4590 - 4614 sh, med dk gy, <sup>sl</sup> silty
- 4614 - 4645 silts, med-gy, f-mic, v f sdy
- 4645 - 4723 sh, med dk gy, v f mic, silty
- 4723 - 4745 ss, med lt gy, silty, med,  
sl limy, v f to f gr
- 4745 - 4779 sh, med dk gy, silty, f-mic
- 4779 - 4825 ls, med-gy, v silty, v f sdy, <sup>Foss</sup> foss
- 4825 - 4860 ls, med-gy, v silty, v f f sdy;  
foss frags; dk-gy sh partings
- 4860 - 4900 sh, dk-gy, mic, silty, limy;  
beds med-gy silty, v sdy ls

4900 - 4940 ss, med-gy, v silty, v limy,  
v f-f gr; crin

(Mudded up @ 4930)

4940 - 4952 ss ss above + beds dk-gy  
silty sh

4952 - 60 ls, med-gy, v sdy, v foss; f to  
c sd; bryoz, brach, crin

4960 - 4986 ss, med lt gy, v limy, f-to med gr;  
foss frags; porous

4986 - 5014 sh, dk-gy to gy-blk

5014 - 5030 slts, med-gy, mic, v sl limy;  
1/w dk-gy ss

5030 - 5070 ss, med-gy, <sup>sl limy to</sup> limy, <sup>mic, silty,</sup> v f to f gr

5075 - 5095 ss, med-gy, sl limy, silty, v f to  
fgr; tr med grs; crin (poor samples)

com Hill  
5095 - 5150 sh, dk-gy, v silty; pyrite; 1/w  
med-gy mic, pyritic slts  
(poor samples)

5150 - 5160 Probably v f gr silty ss, but  
samples may have 10' lag + therefore  
this is not represented

T.D. Samples 5160



Socony Mobil Co., Inc

#1 C.E. Isom Unit

12-6N-27W

Datum - KB

C SW NE

0-452 No E-log

0-20 silts, med-gr, c-gr; <sup>mica</sup> (unwashed ~~thin~~ samples)

20-35 ss, yel-gr, v clayey, vsilty, mic, vf gr

35-75 sh, dk-gr, mic

75-100 silts, med-gr, clayey, med-gr,

100-280 ss, med-gr, silty, mic, vf gr; <sup>±f</sup> drills

free in part; <sup>most</sup> trace ~~at~~ med

grs in lower 50'

280-310 ss <sup>med-gr, silty, mic, vf to f-gr;</sup> ~~as above~~; <sup>±f</sup> dk-gr sh

310-350 sh, dk-gr, vsilty, mic; thin  
beds med-gr vf gr ss.

350-375 ss, yel-gr, vf to f-gr; <sup>±f</sup> dk-gr silty  
sh

375-455 sh, dk-qq to qq-blk, v fine  
452 - E-log begins - Csg-455'

455-540 sh, dk-qq, clayey

540 - 555 ss, med lt qq, siliceous, v f to f gr;  
v sl limy

555-595 ss, med lt qq, <sup>silty</sup> v f to med-gr; drills free

595-620 ss, med lt qq, silty, v f to f gr; drills free

620 - 670 ss, med lt qq, f-gr; drills free;  
"pin-point limy"

670 - 760 ss, med lt qq, v f to f gr; sl limy;  
sl siliceous

760 - 795 ss, med-qq, <sup>mic</sup> v sl limy, ~~st siliceous~~,  
silty, v f to f gr; to glance;  
tr pyrite

795 - 860 silts, med-qq, shaly, <sup>v f sdy, mic,</sup> c-gr,

860 - 935 ss, med-qq, silty, shaly, mic, v f gr.  
drills free; v sl limy; tr pyrite

935 - 1160 <sup>silts</sup> ~~sh~~, med dk qq, mic; ~~silty~~

~~v clayey~~ w dk-qq mic sh

v f sdy 1030-1050, 1100-1115

1160 - 1180 ss, med-gr, v silty + clayey, mic, vfgv

1180 - 1250 silts, med-gr, clayey, mic, c-gr.

1250 - 1260 silts, med-gr, mic, v f sdy, c-gr

1260 - 1310 silts, <sup>med</sup> dk-gr, mic, v clayey, sl limy; siderite?

1310 - 1545 silts, med dk-gr, mic, clayey, shaly beds of vfgvss v f sdy; <sup>tr</sup> siderite

1545 - 1570 sh, dk-gr, mic, v silty

1570 - 1615 silts, med-gr, mic, shaly, v f sdy (br-gr in part -- calcid?)

1615 - 1900 sh, dk-gr, clayey, v f mic, pyrite, <sup>tr</sup> siderite @ 1880

1900 - 1950 sh, dk-gr, clayey, f-mic, much dk brgy siderite; pyrite

1950 - 2295 sh, dk-gr, clayey, f-mic, pyrite; siderite 2110 - 2250

2295 - 2315 sh, dk-gr, silty, mic;

2315 - 2400 sh, <sup>dk-gr to</sup> gr-blk, mic, sl silty, sl limy (granular)

Some slicken sides @ 2380±

2400 - 2494 Sh, dk-gy, f-mic, sl limy  
2494 casing

2494 - 2600 Sh, dk-gy to gy - blk, sl limy,  
vf granular

2600 - 2680 Sh, dk-gy to gy - blk, clayey, <sup>to vf gran</sup>  
f-mic; pyrite  
sl limy;

2680 - 2710 Sh, dk-gy to gy - blk, clayey,  
vf mic, sl limy; tr slickensides  
2690 - 2710

2710 - 2796 shts, med dk gy, mic, ~~clayey~~,  
shaly, vf sdy; pyrite; 1/w  
dk-gy to gy blk f-mic sh

2796 - 2830 ss, med-gy, silty, ~~st~~ f-mic,  
sl limy, vf gr; tr med to cgr  
1/w dk-gy sh - sap log

2830 - 2938 ss, med-gy, mic, silty, vsl  
limy, vf to cgr  
1/w dk gy silty, mic sh - as E log -  
siderite in lower 10'

2938 - 2980 Sh, dk-gy, f-mic, ~~st~~ granular,  
sl limy

2980 - 3000 Sh, gy-blk, f-gran; pyrite

~~3000 - 3100 Sh, dk gy, mic, silty, sl/limy;  
granular~~

3000 - 3100 NS -

3000 - 3060 As above

3060 - 3100 As below

3100 - 3113 Sh, dk-gy, mic, silty, sl/limy;  
granular

3113 - 3165 Sh, dk-gy mic sl/limy

3165 - 3205 slts, med-gy, v f sdg, c-gr;  
1/w dk-gy sh

3205 - 3230 Sh, dk-gy, f-mic, v silty

3230 - 3310 slts, med dk gy, mic, clayey, shaly,  
v f sdg; siderite; some v f to f  
sd in clay matrix; becomes more  
clayey downward

3310 - 3378 Sh, dk-gy, mic, silty to clayey

3378 - 3383 ss, med-gy, silty, sl/limy, utgr

3383 - 3500 Sh, dk-gy, f-mic

- 3500 - 3552 <sup>mic</sup> ss, med lt gy, silty, s/l limy, vf gr,  
tr f grs; dk-gy sh beds as  
E-log
- 3552 - 3578 sh, dk-gy clayey; 1/w ss as  
above @ 3560 - 63
- 3578 - 3622 ss, lt br gy, silty, <sup>silly to f</sup> vf-gr;   
beds of dk-gy sh
- 3622 - 3630 silts, dk-gy, clayey, mic
- 3630 - 3665 sh, dk-gy, f-mic
- 3665 - 3700 sh, dk-gy, mic; 1/w med-gy  
rf sdy silts
- 3700 - 3865 sh, dk-gy, mic, silty, <sup>granular;</sup> vsl  
limy; probably clayey  
silt in part
- 3865 - 3893 sh, dk-gy to gy-lt, clayey;  
lith or no lim - <sup>many</sup> slickensides
- 3893 - 3914 ss, med lt gy, <sup>mic</sup> clayey, well  
sorted vf gr; s/l limy
- 3914 - 3985 sh, dk-gy, clayey;  
tr slickensides
- 3985 - 4035 silts, med dk-gy, mic, clayey;  
1/w dk-gy sh

- 4035 - 4042 ss, med lt gy, f-med gr; drills fine
- 4042 - 4185 sh, dk-gy, sl silty - of granular  
v sl limy
- 4185 - 4335 sh, dk-gy, silty, vsmic, sl limy;  
tr siderite
- 4335 - 4400 sh, dk-gy, sl silty, sl gran
- 4400 - 4502 slts, med-gy, clayey, v f sdy;  
1/w dk-gy sl silty sh
- 4502 - 4772 sh, dk-<sup>to gy-bk</sup>gy, vsmic, <sup>sl</sup> silty, to clayey;  
~~tr~~ pyrite
- 4772 - 4790 ss, med-gy, silty, v f to f gr  
sl limy
- 4790 - 4820 ss as above 1/w dk-<sup>to gy-bk</sup>gy sh (poor samples)
- 4820 - 4865 ss, med-gy, silty, sl limy  
v f gr; v c grs + grains in  
lower 30'; dk-gy sh in  
lower 20' - poor samples
- 4865 - 4912 ss as above 1/w dk-<sup>to gy-bk</sup>gy sh -  
poor samples - tr siderite
- 4912 - 4940 ss, med-gy, silty, sl limy,  
v f to f gr; scattered c + v c grs;  
siderite

- 4940-4960 ss, br-yy, silty, sideritic,  
f to med gr; c & vc grs
- 4960-4995 sh, med dk yy, mic, silty, <sup>f</sup> sdy,  
sideritic; scattered ss beds w/  
vc grs to gran S
- 4995-5070 sh, dk-yy, mic, granular, <sup>r</sup>  
silty; to siderite
- 5070-5095 ss, med-yy, silty, sl lining,  
vf to f gr; scattered med grs;  
dk-yy sh beds
- 5095-5120 sh, dk-yy, f-mic
- 5120-5155 sh, dk-yy, f-mic, beds  
med-yy vf to f gr ss; to med grs
- 5155-5182 ss, med lt yy, sl lining, vf to med gr;
- 5182-5195 sh, dk-yy
- 5195-5276 ss, med-yy, silty, <sup>sl lining</sup> vf to  
f gr; scatt med grs; 1/2  
dk-yy sh; lt br siderite
- 5276-5310 sh, dk-yy, mic, silty
- 5310-5315 ss, med-yy, silty, vf to med gr
- 5315-5450 sh, dk-yy, <sup>mic</sup> silty, granular  
sl lining



- 5450 - 5460 silt  
~~sh~~, dk-gy, ~~3 to 4~~ clayey, silty, mic, v f sdy;  
 sl limy
- 5460 - 5670 Sh, dk-gy, v f mic, clayey, no limy,  
 tr pyrite
- 5670 - 5715 silts, dk-gy, mic, clayey <sup>v f sdy</sup> v sl  
 limy; 1/w dk gy sh
- 5715 - 5760 Sh, dk-gy, mic, silty, granular,  
 tr pyrite
- 5760 - 5875 Sh, dk-gy, f-mic, clayey
- 5875 - 5903 ss, med-gy, v silty, v f gr;  
 1/w dk-gy sh
- 5903 - 5915 Sh, dk-gy, mic, silty
- 5915 - 5933 ss, ~~as about~~ med-gy, v silty v f to fgr
- 5933 - 5990 Sh, dk-gy, mic, clayey to silty
- 5990 - 5998 silts, med-gy, mic, v f sdy
- 5998 - 6025 Sh, dk-gy, mic, silty
- ~~6025 - silts, med-gy, mic, v f sdy;  
 1/w dk-gy sh + med lt gy  
 v f to f-gr ss~~
- 6025 - 6082 ss, med-gy, silty, v f to fgr;  
~~tr med gas~~; 1/w dk-gy sh

- 6082-6187 Shts, dk-gy, <sup>to med-gy</sup> mic, clayey,  
 sl lims;  
 scattered f to med ss; 1/w  
 med-gy rf gr ss
- 6187-6235 sh, med dk gy, mic, v silty,  
 v sl lims
- 6235-6254 slts, med dk gy, mic, clayey,  
 rfsdy, sl lims
- 6254-7250 sh, dk-gy, rf mic - non-lim;  
 tr pyrite; gypsum veins
- 7250-7300 sh, dk-gy, rf mic; tr pyrite;  
 sl lims  
 1/w med dk-gy mic, clayey, slts
- 7300-7355 sh, slts as above 1/w med-gy  
 silty, mic, r fgr ss<sup>to f</sup>; tr pyrite
- 7355-7405 sh, dk-gy, f-mic (samples  
 contain much slts - probably  
 not representative)
- 7405-7448 sh, dk-gy, f-mic; 1/w med-gy  
 mic slts
- 7448-7510 ss, med-gy, silty, f to  
 tr v grs  
 med-gr 1/w dk-gy sh

- 7510 - 7600 slts, dk-gy, mic, granular;  
1/w dk-gy sh; pyrite
- 7600 - 7695 slts, dk-gy, mic, granular;  
vf sdy in part, 1/w dk-gy sh
- 7695 - 7785 sh, dk-gy, mic,  $\rightarrow$  silty; pyrite
- 7785 - 7910 sh, dk-gy, f. mic<sup>sl silty</sup>; pyrite
- 7910 - 8100 sh, dk-gy to gy-blk, vf mic, clayey;  
 $\rightarrow$  tr  
pyrite
- 8100 - 8375 sh, dk-gy, vf mic, clayey;  
tr. pyrite
- 8375 - 8455 sh, dk-gy to gy-blk, mic, silty;  
1/w dk-gy mic clayey slts;  
pyrite
- 8455 - 8478 slts, dk-gy mic, clayey; 1/w  
dk-gy sh; pyrite
- 8478 - 8520 slts, dk-gy, mic, clayey, vf sdy;  
pyrite, siderite
- 8520 - 8585 sh, dk-gy, mic, silty<sup>granular</sup>; pyrite
- 8585 - 8603 slts, ~~dk~~ med dk-gy, mic,  
vf sdy; 1/w dk-gy sh; pyrite
- 8603 - 8643 sh, dk-gy, mic, silty, granular

8643 - 8655 silt, dk-gy, clayey, v f sdy

8655 - 8722 sh, dk-gy to gy-blk, clayey, v fine

Greasy or slickensided

8722 - 8775 ss, med-gy, clayey, silty, silty, v f gr; tight

8775 - 8810 sh, dk-gy, mic, silty

8810 - 8940 ss, med lt gy, siliceous, sl lving

8940 - 8962 silt, dk-gy, mic v f sdy

8962 - 8994 sh, gy-blk, clayey

8994 - 9050 ~~sh, dk-gy, clayey~~ silt, med dk gy, clayey, v f sdy; like dk-gy sh pyrite

9050 - 9118 sh, gy-blk, clayey, non-living

9118 - 9195 ss, med-gy, to med lt gy, tight, siliceous v silty, v f gr

9195 - 9220 sh, dk-gy, fine, sl silty

9220 - 9430 sh, gy-blk, clayey; tr pyrite in upper part (20')

<sup>10%</sup> in next 3 samples Sample 9430-401 - Abundant lt gy

bentonitic sh w/ lt br - rhombic inclusions that bleach in acid - not del

9395 - 9397 - 10% in

next

Isos...  
limy

9430 - 9440 - silts, dk-gy, (clayey, fine)  
i/w dk-gy sh

9440 - 9510 sh, dk-gy, mic, silty

9510 - 9525 ss, med-gy, vsilty, vfgv

9525 - 9610 sh, dk-gy, mic, sl silty; pyrite

9610 - 9612 ss as above? (poor samples)

9612 - 9672 sh, dk-gy, clayey, sl limy

9672 - 9695 ls, med lt gy to ~~med-gy~~ dk-gy, sdy,  
ool, crin; f to vc sd

9695 - 9710 silts, dk-gy, <sup>clayey</sup> limy, f-sdy

9710 - 9720 ls, dk-gy, silty, v sdy, ool,  
clastic; f sd - some asool  
nucleij crin, brach, ost

9720 - 9800 sh, dk-gy, limy, v fine,  
sl silty; pyrite

9800 - 9850 sh, dk-gy, limy, sl silty;  
thin beds crinoidal ls? -  
several crinoid fragments

9850 - 9910 sh, dk-gy, mic, silty; beds  
off med-gy <sup>limy</sup> v f sdy silts

9910 - 9953 sh, dk-gy sl limy,  
clayey

9953-9985 Ls, med to dk-gy, clayey, fr sdy; crin

9985-10,095 Sh, med dk gy, <sup>f. mic,</sup> silty limy; beds of med-gy crin ls

10,095 - 10,115 ~~Ls, med-gy, clayey, <sup>f. sdy,</sup> crinoidal;~~  
~~poor samples - may be limy ss~~

~~10,65~~ ss, med-gy, limy, clayey, v f gr; poor samples

10,115 - 10,170 Sh, med dk gy, f. mic, silty limy; fr pyrite

10,170 - 10,230 ss, med-gy, limy, f to med gr; crin

10,230 - 10,280 silts, med dk gy, clayey, <sup>f. mic</sup> silty limy,

10,280 - 10,300 Sh, dk-gy, mic, silty; 1/2 silts as above

10,300 - 10,358 Sh, dk-gy, mic, silty, silty limy

10,358 - 10,375 ss, med-gy, limy, f to med gr; crin

10,375 - 10,420 Sh, dk-gy, silty (poor samples 10,400 - 10,420 NS)

- 10420 - 10450 - Samples not representative,  
Use E-log
- 10,450 - 10,468 SS, med-gy, silty, <sup>limy</sup> v f to fgr
- 10,468 - 10530 sh, dk-gy, mic, silty,  
limy, v f sdy in part;  
pyrite
- 10530 - 10,548 SS, med lt gy to med-gy,  
v silty, sl limy, v fgr;  
tr f grs (siliceous +  
grain size difficult to determine)
- 10,548 - 10,573 sh, ~~dk-gy~~ gy-blk, v f mic,  
clayey, sl limy
- 10,573 - 10,590 sh, dk-gy to gy-blk, silty;  
l/w med-gy silty, v fgr ss
- 10,590 - 10,630 sh, dk-gy to gy-blk, <sup>sl limy</sup> silty;  
l/w dk-gy silts
- 10,630 - 10,717 sh, dk-gy, silty, <sup>to clayey</sup> sl limy;  
pyrite - scattered <sup>limy</sup> cubes
- 10,717 - 10,723 silts, dk-gy, clayey, sl limy,  
CH 7  
11/25
- 10,723 - 10,773 sh, gy-blk, <sup>silty-</sup> granular, sl limy  
to v. limy; crin, pyrite;  
tr siderite

10773 - 10785 Ls, dk-yy, ✓ clayey, foss

10785 - 10830 Sh, ~~dk-yy~~<sup>blk</sup>, v limy, granular;  
fossils; pyrite; 11w ls  
as above

~~10809 - Sh, yy-blk, v limy, granular~~

10,830 - 10845 Ls, dk-yy, clayey, f-gran;  
Crin

10845 - 10860 Sh, ~~dk-yy~~ dk-yy, salty, granular  
v limy - may be ls in part

10860 - 10920 Ls, dk-yy, clayey, v f-gran  
bruch, crin; pyrite; interbeds  
of yy-blk sh

10,920 - 10,940 Sh, dk-yy to yy-blk, v sl limy,  
f-gran; pyrite

10,940 - 10,956 Ls, dk-yy, v clayey, f-gran

10,956 - 11,000 Sh, ~~dk-yy~~ dk-yy to yy-blk, sl limy,  
f-gran; much pyrite

11,000 - 11,100 Sh, yy-blk, sl limy, sooty,  
pyrite greenish

11,100 11,232 Sh, yy-blk, v fine <sup>sl limy to</sup> ~~sl~~ limy, salty  
f-gran; pyrite



- 11,232 - 11,240 silt<sub>s</sub>, <sup>med</sup> dk-gy, clayey, limy,  
f-mie
- 11,240 - 11,272 Ls, med dk-gy, clayey, v silty  
residue of <sup>qtz</sup> silty clay aggregate
- 11,272 - 11,350 silt<sub>s</sub>, dk-gy, limy, clayey,  
mucous; + pyrite
- 11,350 - 11,370 Ls, dk-gy, clayey, v silty,  
cherty, f-gran; dk-gy  
to br-gy <sup>silty</sup> ch; res. silty ch
- 11,370 - 11,408 silt<sub>s</sub>, dk-gy, v limy, clayey;  
dk-gy ~~ch~~ silty chert  
in upper part
- 11,408 - 11,423 chert, med lt-gy, <sup>transh</sup> sil limy;  
1/w med lt-gy limy sh.
- 11,423 - 11,480 sh, gy-blk, clayey; pyrite  
sooty, greasy luster;  
siliceous (<sup>v sil limy</sup> blk ch) in part
- 11,480 - 11,498 sh, gy-blk, sil limy, siliceous;  
40% blk siliceous sh. or  
chert; pyrite

Penters

130 m

11,498 - 11,520 Ch, med lt gy, transl;  
~~contains~~ dol rhombs, <sup>pyrite</sup> and  
 other inclusions; 1/w med-gy  
 siliceous, <sup>silty</sup> dolomite; pyrite

11,520 - 11,535 Ls, med lt gy, ~~st~~ dolie,  
 f-gran to v f x 1/4

11,535 - 11,570 Ls, med lt gy <sup>to med-gy</sup> dolie f-gran  
 to v f x 1/4; tr med lt gy  
 ds ch; siliceous? silt  
 aggregate from ls

11,570 - 11,600 ~~lt gy~~ Ls, <sup>lt gy</sup> med-gy, dolie, f-gran;  
 pyrite; residue of silt-sisid  
 gts aggregate - will not  
 dissolve in hot HCl

11,600 - 11,682 Ls, ~~as above~~, but faster  
<sup>and some med lt gy</sup> reaction in acid - probably  
 only sl dolie; fcs frags

11,682 - 11,720 Ls, med lt gy, f-gran to  
 ds; little silt aggregate  
 in some pieces - 1/w med  
 lt gy to med-gy sl dolie ~~ls w/~~  
 res as above

11,720 - 11,787 Ls, <sup>wh-to</sup> lt-gy, med to c xlln;  
tr fossil xlls; tr fossil frags;  
pyrite.

Lower part 11,785 - 11,787,  
indicates mixture of underlyssian  
unit, esp small pieces of  
phosphate + abundant pyrite

Cason

11,787 - 11,793 Sh, med lt gy, phosphatic,  
v limy, <sup>sl dolic</sup> silty, pyritic;  
30% ± dk-gy limy <sup>pyritic</sup> phosphate

Frost

11,793 - 11,817 Ls, lt-gy, <sup>sl dolic</sup> ~~lt-gy~~, med xlln;  
many fossil frags, esp crin  
scattered dol rhombs

Plattin

11,817 - 11,850 Ls, med lt gy to med-gy,  
ds; <sup>scattered</sup> ~~lt-gy~~ dol rhombs;  
tr pyrite

11,850 - 11,870 Ls, med lt gy, dolic, ds to  
f-gran', 25% ± dol rhombs

11,870 - 11,895 Dol, med-gy to med dk-gy,  
v limy, f-xlln; dk-gy  
to lt brgy <sup>dolic</sup> ds ch;  
llw med lt-gy ds ls

11,895-900 Ls, med lt gy, sl dolie, f gran,  
~~l/w med dk gy v long sdg~~  
~~f-xlt dol; f to c rd & fr sd~~

11,900-11,940 Dlt, med dk gy, sl lining, sdg,  
f-xlt, 40% f to c rd & fr sd

11,940-11,960 SS, med lt gy, f to med gr;  
drills free mostly, but some  
chunks show dolie cement

11,960-11,990 SS, med lt gy, sl dolie f to  
med gr; mostly free drilling;  
l/w dk-gy to gr-gy  
f<sup>med</sup> sdg sl dolie 54 (esp 11980-90)

11,990-12,010 SS, med lt gy, sl dolie,  
f to med gr; rd + fr sd

12,000-12,100 NS

- 12,100 - 12,150 Dol, med-<sup>rmbic</sup>gy, f-xlln; scattered  
f-med rd + fr sd grs
- 12,150 - 12,198 Dol, med dk <sup>limy</sup>gy, sdy, clayey, <sup>fgran</sup>  
f-to med rd + fr sd; 1/w  
dk-gy <sup>limy</sup> dolie sl
- 12,198 - 12,220 ss, med-<sup>rmbic</sup>gy, v dolie, f to med gr;  
tr c grs
- 12,220 - 240 Dol, med-<sup>rmbic</sup>gy, sandy,  
f-xlln, <sup>scattered</sup> f to med rd + fr sd  
tr c sl
- 12,240 - 12,300 Dol, med lt gy to med-<sup>rmbic</sup>gy, v sdy  
f-xlln; f to med rd + fr sd;  
tr c grs
- 12,300 - 12,340 ss, med lt <sup>slimy</sup>gy, v dolie, f to med gr;  
scattered c grs; 1/w  
beds med-<sup>rmbic</sup>gy f-xlln dol  
12330 - 13340
- 12,340 - 12,400 ss, med lt gy, f to med-<sup>rmbic</sup>gy;  
drills face - probably  
~~sl~~ dolie as indicated  
by a few chunks  
tr c grs 370 - 390

12,400-12,430 Dol, med-97, sdy, rf xlln;  
f to c rd + fr sd

12,430 - 450. As above but 50% sd

12,450 - 12,500 Dol, med dk 97 to med-90,  
f - xlln (rhombic); pyrite  
scattered f to c sd  
40% f - c sd in last 10'.

TD - 12,500

Midwest Oil Corporation  
Sebastian Coal + Mining #1  
Sebastian County, Arkansas  
15 - 5N - 32W

Started with last box of samples

6340 to TD - 30' samples

To 11, 350 ; 10' samples 11, 35 to TD

6340 - 6725 Sh, dk-gy, fine, silty  
v sl limy; pyrite

6725 - 6814 ss, med lt gy, silty, v f<sup>to f</sup> gr  
1/2 w dk-gy v silty, mic sh;  
pyrite - see E-log

6814 - 6824 ss, med lt gy, sl limy,  
f to c gr.

6850 - 6872 sh, dk-gy, mic, silty

6872 - 6885 ss as above;

6885 - 6928 sh, dk-gy, mic, silty

6928 - 6940 ss, med dk gy, silty,  
sl limy, v to f gr, to med grs

6940 - 6980 Sh, med dk gy, mic, silty,  
v sl lining

6980 - 6990 - SS, med lt gy, f to c - gv

6990 - 7060 Sh, med dk gy, mic, silty,  
v sl lining 7030 - 7035 SS as above,  
but more silty - f - med gv?

7060 - 7100 Sh, med dk gy, mic, v silty,  
1/w med dk gy mic, v fsdy  
silty; scattered med <sup>c</sup>sd grs

7100 - 7230 Sh, dk gy, mic, silty  
1/w med - gy mic silty  
7150 - 7180

7230 - 7450 Sh, med dk gy, mic, v silty

7450 - 7495 Sh, as above; 1/w med - gy  
mic, v sl lining silty v f grss.  
Scattered f med grs

7495 - 7535 SS, med lt gy, silty, sl lining  
f to c gr; poor samples

7535 - 7562 Sh, dk - gy mic, silty  
c-grs rd to polished

7562 - 7573 SS, med lt gy, mic, silty  
sl lining f to c gv



7573 - 7625 sh, med dk gy, mic, silty;  
1/w med-gy mic vs sdy  
sits

7625 - 7630 ss, med lt gy silty,  
vt to f gr; tr c-gr

7630 - 7660 sh, dk-gy, silty

7660 - 7730 sh, dk-gy, silty;  
1/w med-gy, silty  
vf gr ss; tr f - cgr

7730 - 7745 ss, med lt gy, silty  
vf - cgr

7745 - 7780 silty, med dk gy, mic, sdy;  
vf sd to c? sd; 1/w  
dk-gy sh

7780 - 7800 ss as above; 1 crin frag

7800 - 7830 sh, dk-gy mic, silty

7830 - 7900 sh, dk-gy, mic, vsilty,  
sdy; f to c sd grs  
c sd in upper part

7900 - 7965 silty, med dk gy, <sup>mic</sup> clayey  
sdy; f to c sd

- 7965 - 7990 silts, med dk gy, clayey,  
vf sdy; 1/w dk-gy silty sh
- 7990 - 8043 sh, dk-gy f-mie silty
- 8043 - 8053 ss, med lt gy, <sup>silty</sup>vf to fgr
- 8053 - 8102 sh, dk-gy, mie, silty  
v sl limy
- 8102 - 8135 silts, med dk gy to med lt gy  
vf sdy
- 8135 - 8150 sh, dk-gy, mie, silts
- 8150 - 8190 ss, med-gy, mie, silts  
vf to med gr (prev sampled)
- 8190 - 8400 sh, dk-gy, mie, silty, <sup>sl limy</sup>  
tr f - med sd grs, tr pyrite
- 8400 - 8560 sh, dk-gy, vf mie, silty  
sl limy; tr pyrite
- 8560 - 8590 sh, dk-gy, vf mie, vsilty;  
1/w med-gy to med lt gy  
sdy silts; f to med  
sd grs
- 8590 - 8930 sh, dk-gy, vf mie, ~~st~~ <sup>clayey</sup> silty  
sl silty to clayey  
sl limy; tr pyrite

- 8930 - 8952 SltS, med-gy, mic,  
clayey vf sdy
- 8952 - 8963 sh, dk-gy, clayey
- 8963 - 8972 ss, med-gy silty, silty,  
vf to c-gr
- 8972 - 9090 sh, dk-gy, mic, vsilty,  
1/w med-gy mic slts
- 9090 - 9096 slts, med-gy, mic, sdy;  
f-csd grs
- 9096 - 9130 sh + slts as above; pyrite
- 9130 - 9160 ss, med-gy, silty f-cgr
- 9160 - 9180 sh, dk-gy, mic
- 9180 - 9192 ss as above
- 9192 - 9258 sh, dk-gy, f-mic, clayey  
to sl silty
- 9258 - 9353 sh, dk-gy, mic, silty  
vsil limy
- 9353 - 10,300 sh, dk-<sup>to gy-dk</sup>gy, mic, clayey to  
vsil silty;  
pyrite; vsil limy to non-limy  
shickensides 98404  
gypsum throughout  
Kick 10,155-60 not identified in samples

10,300 - 11,010 Sh, dk-gy; mic, s/silty,  
vsl limy to non-limy, Pyrite, gypsum

11,010 - 11,346 Sh, gy-blk, vf mic, clayey;  
non-limy; pyrite

11,125 Bentonite (3+ pieces)

lt br gy, flaky, inclusions  
- dol rhombs?

11,346 - 11,364 SS, med lt gy, f-c gr; drilts  
free

11,364 - 11,388 Sh, dk-gy, silty, sdy,  
sl limy; tr f-med sl

11,388 - 11,400 SS, med lt gy, siliceous,  
sl limy, f-c gr; tr  
v (grt + gran

Pure samples 11400 - 11440

11,400 - 11405 Sh, dk-gy

11,405 - 11,440 SS, med lt gy, sl limy,  
vf to f gr

11,440 - 1452 SS, med-gy, silty, v limy,  
vf to f gr; many crin

11,452 - 11,485 silts, dk-gy, clayey, living  
foss frags in lower  
part

11,485 - 11,525 Ls, med dk gy, silty,  
sandy, foss, ool,  
f sd; bryo, crin,  
grades downward into  
living <sup>silty</sup> vfg ss 'w b  
ss above

11,525 - 11,553 Ls, med dk gy, silty, stool;  
crin,

11,555 - 11,565 Sh, dk-gy, clayey

11,565 - 11,595 Ls, med dk gy, v silty,  
f-gran; crin; to v f sd

11,595 - 11,634 Sh, dk-gy, clayey

11,634 - 11,640 silts, med dk-gy, living

11,640 - 11,648 Ls, med dk gy, v foss;  
mostly a hash of tiny  
crin, brach frags, etc -

11,648 - 11,666 Sh, dk-gy, clayey

- 11,666 - 11,75 silts, med dk gy, v limy,  
f-sdy; crin
- 11,75 - 11,692 ls, med dk gy, silty, ~~+~~  
~~oot~~, foss; brach, brachs  
crin
- 11,692 - 11,712 sh, dk-gy limy, clayey  
beds dk-gy v fos ls in  
lower 12", crin, brach,
- 11,712 - 11,720 ss, ~~+~~ dk gy, v limy,  
well sorted v f to f gr
- 11,720 - 11,744 ls, med dk gy, v silty, v sdy!  
v to f sd; brach, crin  
trace ools; ~~crin~~  
sand sized plus grains
- 11,744 - 11,815 sh, ~~+~~ dk gy, silty  
to clayey, <sup>to limy</sup> ~~stony~~, tr.  
tubes, burrows, or spines  
in upper part
- 11,815 - 11,830 sh, med dk gy, v silty, limy
- 11,830 - 11,900 sh, med dk gy, limy, clayey  
to ~~+~~ silty

11,900 - 11,946 sh, dk-gy, clays, silty

11,946 - 11,960 slts, med-gy, v silty, mic

11,960 - 12,015 ss, med-gy, v silty, silty  
v to fgk; fossil frags  
1/w slts as above &  
layers of dk-gy sh  
pyrite

Case Hill??

12,015 - TID slts, med-gy, <sup>silty</sup> silty, mic  
1/w dk-gy sh; irregular  
bedding -- burrows? ripples?  
sh wrapped around slts