

Buy
From
To

TARGET

TARGET
\$26

Well Samples

Mead

in Back Keep Check
USGS

- 1 Texas - ROCKA 1-8W-9W
- 2 Aladdin - COCKH 2-7W-8W
- 3 CSG - Peterson 11-8W-10W
- 4 McKay - Hearst 23-11W-11W



Book 9

stenographers notebook

Gregg Ruled
6 In. x 9 In.
100 Sheets

43-4204

A Mead Product
Hulman Bldg., Dayton, Ohio 45402



MW Reynolds -

1. New ideas - geologic & tectonic
2. Wed - 7:30 - 10:00 Ramada Inn

835 - Sims

1. archaic basement = 2 years
2. archaic influenced Proterozoic
3. Proterozoic - mainly a time of reworking & destruction of older crust - or accretion seen

1.1 Billion - Midcontinent Rift

granite
Gabbro - granophyre

1800

2600

Batholith

archaic
↑
↓

3500 or
older

Tweto - 111

Fe = 12% of Colr

1.7 B year intrusion

1.4 B year intrusion

1.0 B Pikes Peak granite

1.6 B alcahic - Mafic intrusions

Ark: #2199 -

9-2-79

Texas O&G

TD: 7400

#1 Rocka

Cor NENE Sec. 4, 8N-9W

White County, Arkansas

630' ABGL

645.5' NB

E-log 400' - TD

0-420 NS

420-605

silt, med-gr, ^{micaceous,} c-gr

605-1020

sh, dk-gr, f-mic; silty in part

1020-1032

~~ss~~ silt, med-f-gr, ^{silty} f-mic, ^{vs f} c-gr; siliceous.

1032-1050

sh, dk-gr, f-mic

1050-1055

ss as above

1055-77

sh, dk-gr; conly layers in upper part; silty in lower part

1077-1109

silt, dk-gr, clayey, f-sds

1109-1113

sh, dk-gr, f-mic

1113-1150

sh, dk-gr, silty, f-sds; may be ss w/ clay matrix, pyrite and shale beds; pyrite

Rock

- 1158-1167 ss, med-lt-gy to med-gy,
silty, clayey, rfgz
- 1167-1235 sh, med dk-gy silty, mic.
- 1235-1338 sh, dk-gy ^{to black} f-mic
- 1338-1366 ss, med-gy silty, clayey, rfgz;
some layers w/ white clay grains
- 1366-1440 ss, lt-gy, clayey, rfgz
- 1440-1548 slts, med dk-gy, clayey, mic;
layers of dk-gy mic slt;
locally slts is rfsdy
- 1548-1595 ss, med-lt-gy to med-gy,
silty, clayey, mic.
- 1595-1632 sh, dk-gy, silty, mic.
- 1632-1651 ss, med lt-gy, clayey, silting,
rf-f gr
- 1651-1686 ss, med-gy, silty, clayey,
silicious rf gr; fgr
in some layers
- 1686-1702 ss, med-lt-gy, clayey, silting,
rf-f gr
- 1702-1795 slts, med dk-gy, clayey,
mic, pyrite
- 1795-1826 ss, med lt-gy ^{to med-gy} silty,
_{vs silting} clayey, mic, rf gr's
interbedded w/ sltst as above

- Rock
- 1826 - 1847, sh, dk-gy, silty
- 1847 - 1892 ss, med-lt-gy, sil, v f gr
- 1892 - 1898 sh, dk-gy
- 1898 - 1944 ss, med-lt-gy to med-gy, clayey, silty, sil, v f - f gr; beds of dk. gy sh.
- 1944 - ~~1960~~ ¹⁹⁷⁰ silt, med-dk-gy, clayey, mic
- 1970 - 2032 ~~silt~~ ss, med-lt-gy, sil, v f gr
- 2032 - 2087 sh, med dk gy, v silty, mic,
- 2087 - 2111 ss as above
- 2111 - 2155 silt, med-dk-gy, clayey, mic,
- 2155 - 2188 sh, dk-gy, mic, silty,
- 2188 - 2193 ls, med-gy, clayey, f - x 1/4", brachs
- 2193 - 2289 ~~silt~~ sh, med dk gy, v silty, clayey, mic.
- 2289 - 2302 ss, med lt gy to med-gy, silty, limy, ^{v limy} v f - f gr; crin; trace coated sd grains & other poorly developed oolites. or chert, carbonate grains some shale partings

Rock

2382-2485 Sh, dk-gy, f-mic; silty in
upper part

2485-2540 SS, med-lt-gy to br-gy, v limy,
f. gr; to med gr; crin, brn.

2540-2610 Sh, dk-gy ~~to~~ f-mic;
pyrite

2610-2705 SS, med-lt-gy, limy, clayey
f-med-gr; well sorted;
drills free in ^{upper} part; crin
~~st sil~~ ^{tail} lower part, does not separate to
grains in acid

2705-2730 Sh, dk-gy, f-mic

2730-2765 SS, med-gy, silty, ^{sil} clayey,
v f gr; lt-gr glauc in ~~two~~ pieces
tiny (v f) grains

2765-2770 Sh, dk-gy, f-mic

2770-2790 SS, med-lt-gy, sil limy, silty,
vf-med gr; to crin.

2790-2802 SS as above & beds of dk-gy
v clayey silts.

2802-2840 SS, med-lt-gy, sil limy, m-c gr;
to vc gr; crin silts

2840-2875 SS, med-lt-gy, sil ^{sil} v f-f gr

2875-2915 SS as above interbedded w/
med-gy clayey silts

Rocka

- 2915-2950 ss, med-lt. gy, sil, ^{sl}clayey
sl lining, vf - f gr
- 2950-3100 ss as above w/ med-dk-gy
clayey slts
- 3100-3325 slts, med-dk-gy, clayey, ^{f-sty}mic;
^{stb} amount of sd is variable
- 3325-3385 slts, med dk-gy, vclayey, ^{some}mic
²⁴¹³
- ~~3385~~ - 3529 slt, dk-gy, vsilty, mic;
~~some~~ layers of slts as above, pyrite
- 3529-3580 slts, med-gy, clayey, f-mic,
vf-sty, c-gr
- 3580-3630 slt, dk-gy, vsilty, mic
Several pieces of lining to
lining (or siderite?) and orboid -
black ool - ^{small} no ghr reaction =
ool siderite??
- 3630-3654 slts, med-gy, ~~sl~~ clayey,
mic, ~~st~~ vf sty
- 3634-3700 ss, med lt gy, sil, slty,
vf gr; layers of slts as above
and clayey partings @ sharp contacts
- 3700-3750 NS - probably as below
because of 30' ± lag
- 3750-3761 ss, med lt gy, silicious,
vf gr; clay partings

Rocka
3761 - 3784 silt, med-gy to med-dk-gy,
clayey, mic.

CH
Pit 3784

3784 - 3900 Sh, dk-gy to blk, v f-silt,
vf-mic; ~~siderite~~;
tough, ~~not~~ only sl friable

3900 - 4000 Sh, dk-gy, vf mic, sl brn,
foss? = calcite blks in 1 piece;
pyrite; dk-gy siderite

4000 - 4200 Sh, dk-gy, vf mic; ~~8~~
dk-gy siderite; pyrite

4200 - 4400 Sh, dk-gy to black; drills
to elongate splinters; dk-gy
siderite; tr pyrite
to wh calcite in fracture
or breccia? 4330-35.

granular = sl plus @ 4350

4400 - 4600 Sh, dk-gy to blk - drills
to splinters; tr dk-gy siderite
tr pyrite.

4600 - 4810 sh, dk-gy to blk + f-mic;
many slick surfaces

4810 - 4850 No samples

Rec'd Change to air drill? = ^{Unwashed} powdered

4830-5200 Sh, dk-gy, f-mic;
powder looks more silty, but
probably as above; sil limy
to limy - lime increases
downward

5200 - 5280 Sh, dk-gy, limy, f-mic,

5280 - 5370 Sh, dk-gy, limy to limy, f-mic
nearly all powder but a
few tiny pieces of ^{dk-gy} hard
limy f-mic sh or siltst --
not clay. sh as in
upper part of shale sequence

5370 + 5392 Slight color change, in powder
sh, med dk gy, limy, silty,
siliceous - a few hard
pieces, but no true chert

5392 - 5425 Chert, med-gy ^{to br-gy}, v limy,
clayey; residue of a few
small pieces is sub-turbulent,
showing many clayey inclusions
powder is med-lt-br-gy.

5425 - 5469 As above but darker &
more clayey - probably f-mic
siliceous, v limy ~~clay~~ shale

Rock

5469 - 5530 Chert, med - gy, clayey, ^{sl living} dolie; sub-translucent in water - shows many inclusions; to

chert? med - lighter - gy clean ch

5530 - 5540 sh, dk - gy to blk Not well represented in samples

5540 - 5605 ~~sh~~ med lt gy, v living, dolie; heavy sil res

5605 - 5640 Coarser cuttings
Mixture of ch as above and lt-gy, f-xlls ls; little if any dol in ls.

5640 - 5673 Powder - only a silt res
Probably ls, med lt-gy, dolie; sil silt res

5673 - 5700 2s, lt-br-gy, sl dolie
f-xlls; sample mostly powder

5.

Samples below washed
and tested in acid @ 30' intervals

v2 same

Rock
6040

Dol, ^{ml} lt-gy, limy, sl silty,

✓6050

~~f-m silty fr sd~~
Dol, lt br gy, ~~sl~~ silty (f-m) v f rhombic

6060

Similar to 6040 / f-m silty & fr sd

✓6070

Dol, lt br gy, v silty (f-c) v f rhombic

6080

Similar to 6060 / sl more sand.

✓6090

Dol, med br-gy, f-silty, v f rhombic

6100

Dol, med lt gy, limy, silty; f-m silty

6110

SS, lt br gy, v dolie, f-sand gr

6120

Similar to 6110 / f-m sil - probably dolie ss

4130

SS, ^{on silty dol} lt br gy, v dolie, f-sand gr

6140

SS, ^{on silty dol} Dol br-gy, v sandy; v f rhombic sil

6150

SS, ^{on silty dol} br-gy, v dolie, silty, f-sand gr

6160

SS, br-gy, v clayey, silty, dolie, f-cgr

6170

Dol, br-gy, silty, v silty; f-sand sil

6180

Dol, br-gy, silty; f-m sil

✓6190

Dol, br-gy, v f rhombic; little sand sil

6200

Dol, ~~med~~ lt br gy, clayey; f-sand sil

✓6210

Dol, lt br gy, f-c silty, v f rhombic

6220

Dol, lt br gy, clayey; ^{silty br} med sil

✓6230

Dol, br-gy, sl silty, v f f rhombic; f-m sil

6240

Dol, br-gy, clayey, silty

6260

Dol, br-gy, clayey, silty; f-m sil

from sample

6200

(washed) Dol, br-gy, v f rhombic

Becken

6290 washed but poor sample

Dol, br-gy, r/r rhombic; sand
(dk-gy clayey silty shale from above)

6300 - 6410

Dol, lt br gy, ~~r/r~~ rhombic;

6300 to f ss sd

6310 to f sd

6320 to f sd

30 ~~little or no~~ sd

40 quite a lot of r/r - ~~no~~ sd

50 ++ to

60 to sd

70 " " sp to

80 ~~little or no~~ sd to

90 little or no - some (not much) silt

6400 to sd fine a lot f - c

10 ~~little or no~~ to sd silty

6430

~~6420~~ - 6650 Dol, dk-br, r/r rhombic

6430 ~~from~~ sd no sd

50 no sd

70 no sd

90

6510

30

50

70 - 6650

} none after acid
none of sd

Rockin

6670-6870

Dol, br-gy, ^{silt silty} rhombic

6670 no sd

90 " "

6710 " "

30 - tr sd (m)

50 - tr sd

70 no sd

90 " "

6810 " "

30 " "

50 " "

70 " "

90 " "

6910 - 71³⁰~~70~~ Dol, lt br-gy, ^{lumpy} rhombic

6970 no sd

30 " " br-gy silt

Recheck = 1mm for

30' Recheck "sieve" = trace rd of fr mid sl lt-gy silt

70 " " tr " " " "

90 washed Dol, lt br-gy ^{short} rhombic; ^{near br-gy silt} no sd

7010 no sd ; tr silt

30 " " " "

50 " " ; lt br-gy silt or clay

70 " " " " " "

90 " " ; lt-gy silt

7110 " " " " " "

30 no sd - very little silt

Rock

7150 - 7320	Red, shaly to brgy, v. P. abundant
7150	No sd - It-br silt on clay
70	No sd - very little silt
90	No sd - little silt
7210	" " to silt
30	" " " "

Recheck "Seave" - may be trace of f sd
 but very little

50	It-br silt
70	It-br silt
90	It-br silt
7300	" "
10	" "
20	" "

Samples to 7320

TD - 7400

Ark # 60

White Co. Ark.

Aladdin Petroleum Corp. et al

GL-286

#1 Crockett

TD: 3167

C5ENW 2-7N-8W

E-log to 3165

0-8 No samples

8-13 sh, weathered, yel-b to dk gy

13-23 sh, dk-gy, f-mic

23-29½ ss, med-lt-gy, clean, ^{siliceous} v f-f gr

29½-38 silts, med-gy, f-sdy, c-gr
partings of dk-gy sh

38-54 ss, med-lt-gy, ^{mic} v f gr; silty, sl
shaly; red-br to br-gy siderite

54-58 silts, med-gy, f-mic, v f silty, c-gr

58-63 ss, lt-br-gy, silty, v f gr;
paleocyped or brach in shaly layer

63-70 ss, med-gy, silty, f-mic, v f gr

70-108 silts, ~~med~~ med-dk-gy, f-mic, v f sdy, c-gr
laminated, sl shaley, grading
downward to shaly

108-124 sh, dk-gy, f-mic, v silty

124-155 sh, dk-gy, f-mic

155-170 sh, dk-gy, f-mic; silty in
part of layers of med-dk-gy sil silts;
siderite

170-173-ss, med-gy, silty, v f-f gr

Crockett

173-191 silt, med-dk-gy, mic, clayey, rf sdy, siderite

191-262 sh, dk-gy, f-mic silty

262-284 silt, med dk-gy, ^{silty} clayey, f-mic

284-398 sh, dk-gy, f-mic; to red-br siderite; sh is more fissile, ^{more sideritic} less silty below 345

398-410 ss, ~~med dk-gy~~ ^{lt-br-gy} silty, rf to f-gr

410-425 ss as above; more f-grs; drills free in part

425-440 ~~ss~~ silt, med-dk-gy, silty, mic, rf gr sdy; some layers of ^{med-gy silty} silty, ^{sl limy} v f ^{grs}

440-452 ss, br-gy, silty, sl limy, rf-fgr

452-490 silt, ^{med-gy to} med-dk-gy, mic, rf sdy; shaly layers

490-~~595~~ silt, med-gy to med dk-gy clayey, mic; to lime

~~595~~ 595-601 NS

601-624 silt, ss above

624-647 ss, ^{med dk-gy to lt} ~~med~~ br-gy (cream) to br-gy sil, v f-fgr; v little lime; tight, clean; sl limy & ^{several} worm? crin columns in lower 10"

Crockett

647-672 sh, dk-gy, f. mic, silty;
siderite (clayey)

672-675 ss, med-lt-gy, sil, silty,
vf-f gr; ^{little or} _{no} lim

675-695 ss, ~~lt-gy~~ med lt-gy,
sl limy, siliceous,
vf-med gr; to wh clay
matrix & grains in upper part,
br-gy & silty in lower 3'

695-708 slts, med-gy, clayey, f. mic

708-715 ss, med-lt-gy, sil, vf gr;
clay partings

715-736 slts, med-gy to med dk-gy
mic, vf-sly, clayey; alternating
layers - coarser to finer

736-747 ss, med-lt-gy, sl silty,
limy, f-med gr; to c-gra;
silty & poorly sorted.

747-768 sh, dk-gy, f. mic

768-780 ss, med-gy, silty, clayey,
vf-f gr; clay matrix in
part - dirty; sl limy
crin, pelecypods etc; ~~worn~~
lower part nearly a foss ls.

780-795 sh, dk-gy, clayey; c-silt
in clay matrix; mica; no lime

Crockett

795 - 813 SS, med-lt-gy, sil, vf-fgr
no lime noted; well sorted
mic.

813 - 830 Sh, dk-gy, mic, v silty;
beds of med-gy ^{to lt-br gy} vf silty slts

830 - 850 SS, med-lt-gy, sil, vf-fgr
to lime; silty clayey in lower 5'

850 - 860 SS, med-gy, silty, clayey,
vf-fgr; ^{calc} to ~~med~~ grs;
Plant debris; clayey matrix

860 - 871 SS, med lt gy, silty, vf-med
gr; brachs? grain size decreases
downward.

871 - 878 Sh, dk-gy, mic, silty

878 - 883 Ls, lt-br-gy, f-silty, ool,
vf xlls; sand grain centers
of ^{lt-brn} ools in vf xlls matrix

883 - 903 SS, med-lt-gy, sil, vf-fgr
clean; no lime noted

903 - 913 Sh, dk-gy, f-mic, silty.

913 - 920 SS, br-gy, ^{slimy} silty, clayey, f-fgr
to med grs; ^{tr} Foss; dk-gy sh partings
f-m silgr in clay matrix in
some beds.

920 - 928 Sh, dk-gy, mic, silty

Crockett

928-947 ss, med-gy, ^{silty} v-silty, vf gr; siltstone in part

947-975 slts, med-dk-gy, mic, v clayey

975-1041 sh, dk-gy, mic, v silty

1041-~~1070~~¹⁰⁵⁴ ss, med-gy, sil, v silty, v clayey f-med gr; dirty, partly sorted; ~~beds med-gy~~
~~vf-sdy slts~~

1054-1067 slts, med-gy, vt sdy

1067-1070 ss, br-gy, limy, silty clayey, vt-f gr

1070-1088 sh, dk-gy, mic, v silty

1088-1093 ~~slts~~^{slts}, med-gy, v silty, v clayey, vt-f gr; sl/vf sdy

1093-1098 Ls, br-gy, clayey, silty f-med sdy, f-xlts, many crin; bracts

1098-1138 slts, med-gy, mic, clayey c-gr

1138-1184 sh, dk-gy, mic, v silty; tr siderite 1140-50

1184-1198 ss, med-gy, limy, silty vt-f gr; crin

1198-1210 slts, med-gy, mic, clayey, c-gr

Crockett

1210 - 1216 ss, med-gy, silty, sl ^{to v limy} limy
vf-f gr; med-grs; crin

1216 - 1221 sh, med dk gy, mic, v silty

1221 - 12~~48~~³⁸ sh, med-lt-gy, to med-gy,
sl limy, ^{to v limy} vf-f gr; to crin
drills free in part; layers

~~1248~~ - of ^{wh} xlla calcite + br-gy
foss, f-sdy, vf xlla ls
crin; brachs

1238 - 1267 sh, dk-gy, f-mic (tr siderite)

1267 - 1323 slts, med-gy, f-mic, clayey

1323 - 1326 ls, br-gy, clayey, v sdy (F)
f-xlla; crin, brach.

1326 - 1362 ~~slts as above~~ sh, dk-gy,
mic, ~~is~~ silty.

1362 - 137~~3~~ ss, br-gy, sl limy, silty,
clayey, vf-f gr (mostly ~~is~~)
crin; ^{v for to slts in lower part} ~~mostly~~ siderite

1373 - 1378 sh, dk-gy, mic, silty;

1378 - 1390 slts, dk-gy, mic, v shaley;

1390 - 1480 sh, med-dk-gy, mic,
silty; siderite

1480 - 1486 ls, mottled lt-gy + br-gy,
shaly, f-sdy, f-xlla,
many crinoids; some
coated sd = ^{limy} 100ls

Crockett

- 1486 - 1512 sh, med dk-gy, mic,
v sl limy, v silty;
Siderite. (May be mostly silts)
- 1512 - 1525 ¹⁵²⁵ ss, lt-gy, siliceous
vf gr; upper 1' partly
br-gy & limy
- 1525 - 33 ss, br-gy, sl limy, siliceous
vfgr
- 1533 - 1542 sh, dk-gy, mic, silty
- 1542 - 1545 ss, med-gy, sl limy, clayey,
f-gr; br med; crin
- 1545 - 70 ss, lt-gy, sil, vfgr
- 1570 - 1590 ss, lt br-gy, sl limy to
v limy, vf-fgr; crin, brach.
- 1590 - 1613 silts, med dk-gy, mic, clayey
- 1613 - 1640 sh, dk-gy, fissile, clayey ^{5' siderite}
- 1640 - 1669 silts, med dk-gy, clayey, silty,
crin; brach; grain size
increases downward; v f sdz
below 1660
- 1669 - 1689 ss, med-gy to br-gy, sl limy,
silty, clayey vfgr; crin
- 1689 - 1700 ss, br-gy, v sl limy (if at all)
siliceous, silty, ~~clayey~~, vfgr
- 1700 - 1704 sh, dk-gy

Crookett

1704-1718 ss, lt-br-gy to med-gy, siliceous
silty, ^{v silty} v f-f gr

1718-1730 slts, med-dk-gy, mic, v clayey
grades down to silty sh

1730-1747 ss, med-gy to med lt gy
siliceous, sl lining, v f gr, ^{to branch} to Crisis

~~1730~~ more silty in lower part

1747-1756 sh, med-dk-gy, mic, silty;
siderite; beds c-gr slts

1756-1795 ss, med lt gy to med-gy,
v silty, ^{siliceous} clayey, v f gr;
partings of dk-gy sh

1795-1907 sh, ~~med-dk-gy~~ f-mic, silty;
~~irregular layers of c-gr slts~~; siderite
to branch @ 1832: (siltstone
in upper half probably strange lower
half pure dk-gy sh)

1907-1920 sh, dk-gy, f-mic,
interbedded with med-dk-gy,
mic, clayey siltstone.

1920-1925 Ls, br-gy, v sideritic,
silty, clayey, v f silty; Crisis
may be mostly siderite, even
some of crin debris. Reaction in
acid fast and then very slow.
lower part probably mostly siderite

Croc Kett

mid-gr gy

sl lim

1925-1999 ss, med-dk. gy, f. ssic;
to siderite; unit becomes
more shaly downward.

1999-2020 ss, lt-br gy, limy, silty ^(but clay) ss
f-m gr - some c grs; crin, bryz.
Some of unit drills fine & releases.

many med c grs and a few vc
no glauc noted

2020-2030 ss, med lt gy to lt br gy,
sl limy, sil, rf-f gr

2030-1047 No spongelite; E-log
indicates ss

2047-2055 ss, med lt gy to lt br-gy (crin),
sl limy f-med gr; fine drly

2055-2070 ss as above but mostly
f-gr & sil; to med gr
ss, med-lt-gy, sil, sl limy,
f-gr - clean, well sorted

2070-80 ss, lt br-gy, sil, sl limy,
f-med-gr, ^(mostly f-gr) to crin

2080-90 As above - rf-f gr; to med

2090-2110¹⁵ ss, lt br-gy, limy, f-med gr
crin; some layers contain some
limy, some fine & overl sil

Crockett

- 2115 - 2123 ss, lt-br gy, sil, v sl limy f-gr; well sorted
- 2123 - 2130 slts, med-gy, f-mic, v sl limy, c-gr
- 2130 - ~~2132~~ ²¹⁵⁴ ss, med lt gy, sil f-mic, silty, v f-gr (barely above saltstone) ^{slt br gy}
- ~~2132~~ ^{some bed of slts as above} ~~slts as above~~
- 2154 - 2177 sltst, med-gy, f-mic, c-gr, to siderite
- 2177 - 2202 ss, med-gy, v silty, v f-gr, sil f-mic, silty
- 2202 - 2212 sh, dk-gy, mic, silty
- 2212 - 2230 ss as above, pinpoint limy lower part dk-br gy limy siderite w/ f sil; ^{crin}
- ²²⁷⁵ 2230 - ~~2268~~ sh, med-dk-gy, f-mic, v silty siderite; to frag? pelecypod or ceph.
- Grades into saltstone
- 2275 - 2290 is lower part
- 2268 - 2300 ^{dull} ss, br-gy, siliceous, sl limy (pinpoint), silty, ^{clayey} v f-gr
- 2290 - 2300 ^{to be ss} ss, med-gy, v siliceous, v f-gr; only tr pp lim; ^{some siderite}
- 2300 - 2306 { some coal lamings; some v fissile sh - acidest notes in samples } sh, med-dk-gy, silty

Crockett

2306-2333 SS, med lt gy, sil, vf-~~fg~~^{fg}
c sd & sh grana in some layers
tr vc sd.

2333-2344 Sh, med dk gy to br-gy (stain?)
silty, f. mic.

2344-2367 SS, lt-br-gy, silicious
vf-f gr; med-c grs in
conglomeratic
Some layers; grana? gts xls?
Shale partings

2367-2398 Sh, med-dk-gy to br-gy
silty; contains partings of

PG ^{silicious conglomeratic SS as above.}
CH

2398-2455 SS, med lt gy, v sil, v f-~~fg~~^{fg};
siltstone^{+sh} partings - many
silt - ss contact surfaces

2455-2510 Sh, med-dk-gy, ^{f. mic.} silty,
interlaminated with med-gy^{to med-gy}
c-gr silt

2510-2611 Sh, med-dk-gy, f. mic vsilty;
a few ^{c-gr} silt laminae & layers;
Some clay shale ~~layers~~ zones
of friable clay shale

2611-2620 Silt, med. lt-gy, sil,
c-gr; some f sd; gts xls
& veins

Crockett

2620 - 2700 Sh, med-dk-gy, v f mic;
siderite, ^{many pieces of siderite veins} qtz -- qtz rills
(5 mm wide)
in thin veins showing sh contact;

Slickensides

2700 - 2763 Sh, med-dk-gy, f-mic,
silty; interbedded with
med-lk-gy to med-gy c-gr f-sls
slts; siderite

2763 - 2847 slts, med-gy to med-dk-gy,
clayey, v f sdy; layers of
dk-gy ^{f-mic} sh

2847 - 2870 ss ^{med-lk-gy to med-gy}, silty, clayey, v f gr

2870 - 2885 sh, dk-gy, f-mic

2885 - 2893 ss ^{med-lk-gy to med-gy}, silty, f-mic;
v s (lamin) (pp) v f gr

2893 - 2989 sh, ~~med-dk-gy~~ f-mic,
3035 silty

2989 - ~~3023~~ 3035 slts, med-gy, clayey, f-mic;
v f sd in some med-lk-gy sil layers.

~~3023 - 3035 NS - slts as above (E-log)~~

3035 - 3051 sh, dk-gy, mic, silty

3051 - 3074 slts, med-gy, mic, clayey;
shale partings

3074 - 3148 sh, dk-gy, f-mic, silty
to v silty; tr siderite; some layers of
med-gy clayey slts.

3148-3166

silt, med-gy to med-dk-gy
clayey, f. mic; layers
of dk-gy sh.

TD - 3166

CSG Exploration Co
Patterson #1

NESE 11-8N-10W

White County, Ark

(Base Bed)
(Quad)

E-log 715-6770

0-720 NO samples

720-780 sh, med-dk-gy, mic, v silty

780-865 silty, med-dk-gy, mic, v clayey

865-1890 sh, dk-gy, mic, to silty

of silty where shown on E-log
Some siltst, but not as much as is suggested
to justify
sh as ~~dk-gy~~

1890-1965 First "bestonite" seen; lt-gy

rather hard (st brittle rather
than soapy) compact "clay"
that includes small shaly dol;
long slow acid reaction.

1905-2058 silts, med-lt gy, sil,

v f sdy

(1930-40 mostly sh & again "bestonite"
out of joint ^{yes}?)

1940-50 silts & little if any "bestonite"

2058-2069 sh, dk-gy

2069-2108 silts as above

2108-2112 ss, med-gy ^{sil}, silty, clayey,
f-c gr; poorly sorted; dirty;

2112-2165 siltst, med-gy, clayey,
v f-f sdy - may be dirty ss
in joint; grades downward
to shaly siltst and shale

Patterson

2165 - 2195 ss, med-lt-gy to med-gy, mic, silty, poorly sorted, vf-med gr.

2195 - 2210 sh, dk-gy, mic

2210 - 2240 ss, med-lt-gy, sil, f-m gr.

Atoka to-vc gys, esp in lower part

monrow
2240 - 55 sh, med-dk-gy, mic, silty

2255 - 2290 ss, med-lt-gy, sil, f-m gr

2290 - 2300 sh, med-dk-gy, mic, silty.

2300 - 2400 { silt med dk-gy, mic,
No Samples } clayey (E-log) - some sh

2400 - 2450 sh, med-dk-gy, mic, v silty (abundant siltst)

2450 - 60 siltst, med-gy, mic, clayey

2460 - 86 ss, med-lt-gy, sil, vf. f gr

2486 - 92 ls, med-dk-gy, clayey, vf vlt; crin, brach

2492 - 2509 siltst, med lt gy, v f silty, f-gr

2509 - 2513 ls as above

2513 - 2560 siltst, med-gy, mic, clayey, some med-lt-gy, vf silty, siltst

2560 - 2570 sh, med-dk-gy, mic, silty

2570 - 2590 ss, med lt gy, sil, vf-f gr; siltst in lower part - some sh

Patterson

- 2590 - 2608 sh, dk-gy, mic, silty
- 2608 - 2612 ^{ss} ~~st~~st, med lt-gy, sil,
vf-f gr
- 2612 - 2672 ss, med-lt-gy, sil, ^{br-gy} lamination
vf-f gr - fiss; crin
- 2672 - 2860 sh, med-dk-gy, mic;
silty in a few layers
- 2860 - 2926 ss, lt-br-gy, sil, sl lamination stling
silty, f-m gr, ^{FOSS;} zones
of dk-gy sh in lower part
2886-90'; - 2894-97'; 2903-10
- 2926 - 2954 sh, dk-gy, f-mic, siderite
- 2954 - 2960 ss, med-lt-gy, sil, sl lamination
f-mgr
- 2960 - 2988 sh, dk-gy, f-mic; silty
in upper part
- 2988 - 3020 ss, lt-br-gy sil, f-gr;
in part sl lamination - crin?
med-gy, silty & cherty in
lower 1/2 of unit
- 3020 - 3175 sh, med dk-gy, mic, st silty
to siderite
- 3175 - 3180 ss, med-lt-gy, sil, vf-f gr
- 3180 - 3187 sh, dk-gy, f-mic

~~318~~

Patterson

- 3187-3224 ss, med-lt-gy, sl limy, f-m gr
- 3224-3265 ss, lt-br-gy, limy, f-m gr; tc grs; crin
- 3265-3275 sh, dk-gy, f-mic
- 3275-3293 ss, med-lt-gy, sil, f-gr
- 3293-3315 sh, dk-gy, f-mic, silty
- 3315-3353 ^{for samples - small} ss, lt-br-gy, limy, f-mgr, grades down into silty ss, sltst, ^(silty) slt
- 3353-~~3334~~³⁴⁰⁰ ss, med-lt-gy, sil, f-gr, some ~~br-gy~~, sl limy f-mgr ss, silty in lower part
- 3400-3470 ss, med-lt-gy to lt-br-gy, sil, sl limy (crin), f-gr; to med grs; some layers of dk-br gy clayey, sideritic, sl conglomeratic med-gr ss; crin
- 3470-3479 sh, dk-gy, f-mic, silty
- 3479-3500 slts, med-gy, clayey, ^{f-mgr} c-gr
- 3500-3514 sh, dk-gy, f-mic, sl silty
- 3514-3580 ss, med-lt-gy to lt-br-gy, mic, sl limy to limy, f-mud gr, tc grs drills free in part

Patterson

3580-3645 sh, med-dk-gy, mic, silty

3645-3723 ^{siltst} ~~ss~~, med-gy, ^{clayey} silty, f-gr;
f-c gr; v f sdy in part

3723-3752 sh, dk-gy, mic, silty
fissile 3737-52

3752-3780 silt, med-gy, clayey,
f-mic;

3780-3837 silt, br-gy, ^{to med-gy mic,} sil, clayey,
v f sdy, c-gr

3837-3883 silt, med-gy, ^{mic,} clayey, c-gr

3883-3949 sh, med-dk-gy, mic, v silty;
some beds of med-gy c-gr silt

3949-3982 silt, med-gy to br-gy, mic,
clayey, c-gr

3982-4069 sh, med-dk-gy, mic, silty;
layers of med-gy c-gr silt;
siderite

4069-4085 ss, lt-br gy to med-gy,
mic, silty, clayey, v f

4085 - ^{4/20} (Peer samples) gr; to med-c gr
silt, med-dk-gy, ^{mic,} silty;
beds of dk-gy sh

4120-4190 sh, dk-gy, f-mic, silty;
some beds of siltst as above

4190-4250 silt, med-dk-gy, mic, ^{sil} clayey,
c-gr; ~~ss~~ v f sdy in part

Patterson

- 4250 - 4290 sh, med-dk-gy, mic, silty;
beds of med-gy c-gr clayey siltst.
- 4290 - 4515 siltst, ^{med lt-gy to} med-gy, mic,
(Small samples) clayey v f silty c-gr
(much red-br in some
samples = burned?);
up to thick beds of med-lt-gy v f gr ss
where SP indicated and
elsewhere = siliceous ss
- 4515 - 4530 ss, med lt-gy, sil,
v f - f gr
- 4530 - 4635 siltst, med-lt-gy to
med-gy, sil, clayey, v silty;
beds of sil med-lt-gy
v f - f gr ss. About $\frac{1}{4}$ - $\frac{2}{10}$ of
(sh, ss, & siltst)
each sample is red-br -
^{may be} looks burned but ^{probably} natural
- 4635 - 4645 ss, med-gy, sil, silty,
clayey, v f to f gr; less sil
part drills face
- 4645 - 4688 siltst, med-dk-gy, mic clayey,
beds of med lt-gy to med-gy
silty v f - f gr ss & some
dk-gy sh; probably sandy
to base but no major basal ss

CH 4688
Miss

Patterson

4688 - 4714

Sh, dk-gy, Fissile

4714 - 4730

Sh, md-dk-gy to br-gy,
silty; ^{or lime} ^{to black} "greasy"

4730 - 5270

Sh, dk-gy, ^{to black} v fine, Fissile;
tr pyrite in upper ^{flatter} part

5270 - 5322

Sh, dk-gy to blk, ^{v. silty} Fissile;
siderite; sil more silty than
above, but no lime noted.

5322 - 5400

Sh, dk-gy to blk, sil limy to
limy; less fissile than above

5400 - 5472

Sh, dk-gy to black, limy,
sl granular, sub-fissile

5472 - 5510

Sh, dk-gy, v limy,
~~sl~~ granular; some med dk-gy
v limy layers = almost ls; pyrite

5510 - 5595

Sh, dk-gy, granular,
sl limy to v limy

5595 - 5600

Sh, dk-gy, f-silic, granular,
v limy

5600 - 5654

No sample (E-log; sh as above)

5650 - 5700

Sh as above; tr pyrite

5700 - 5794

Sltst, dull md-lt-gy to md-gy,
sil v. limy; 50% disaggregates,
many be silty ls in part
Some layers are clayey, but probably not sh.
Rec; sil salt aggregate
Much of sample is sh from above

Patterson

5794 - 5830 Ls, dull med lt gy to med-gy,
finely mottled ^{v f filln}
v silty; sil silt res,
partly
mostly disaggregated; some
v sil layers

5850 - 5970 Ls, dull med lt gy to med-gy,
sil, silty, v f filln; med-gy
limy chert; res; mostly
free sil silt + ch.

5970 - 5909 Ls, dull med lt-gy, ^{to med-gy,} sil
v f filln; Res; free sil silt
~~to lt-br Transl ch ^{partly}~~

5909 - 5935 Ch, dull lt brgy ^{dull} ~~typical~~
(Poor samples) dk gy, ^{transl to granular}
mottled in part ^{only} v fine if any;
pyrite; sh bed 5930-35
indicated by E-log. - not seen
unless in sample ⁵⁹⁷⁰⁻⁸⁰ ~~5980-90~~ - Sh, mottled
med-lt-gy, hard, brittle,
sl cherty, v f sdy (= BRASS?)
or (St. Joe?)

5935 - 5967 Ch, ^{br-gy} med-gy to dk-gy,
conchoidal, massive; granular
in part = chert?

5967 - 5970 ^{ch mottled} Ls, dull med-gy, limy,
like v f-f sdy.

5970 - 5980 Ch, br-gy to black, conchoidal; silty
in part

Patterson, Penters

5980 - 6039 sh, lt-br-gy (tr br-gy)
(good samples) trunc, conchoidal; pyrite;
sl lining & dolie

6039 - (Run log)

6039-6050 chert as above & dull earthy

Penters 6045
15 (sil) pink & wh ls, f-c x lls;
foss; tr pyrite (ls badly powdered
by chert from above)

6050-6080 Ls, wh & pink, foss;
f-med x lls in soft

Casein? f-gran matrix; pink crin?

6080-6090 (E-log weak - depths =
estimates;

F'vale? sh, gr-gy, soft

6090-6120 Ls, med-lt-gy, v f x lls

(Sample 6110-20 matrix around crinoid

missing = 6090-6100⁺) columnals and other foss frags,

Kimmerwick?

Plattin?

calcite x lls

6120-6150 Ls, lt olive-gy, f-gran to
v f x lls; tr det rhombos;
faint foss fragments & small

Sample

(6170-⁶²⁰⁰ ~~6200~~ missing) dk-gy inclusions (foss frags?);

= 6150⁺-⁶²⁰⁰ ~~6180~~) brack, crin, etc give some
pieces lack of crystallinity;

6200

may be partly pelletal

6150-6180 NS

Patterson
6180-6200-20 Ls, ^{lt-olive-gy ss} med-gy, f-gran to
f-xlls; pelletal?; inclusions
of dk-gy insoluble fragments
many brachs

6220-6300 Ls, ^{sl shaly} med-gy, f-gran to
vs xlls; (sl dolie to dolie)
to pyrite; probably interbedded 1st dol

^{plattin type ls}
6300-6340 Ls, lt olive-gy, ds to
f-gran

(6360 to 6440 = no samples = interval 6340-6420)

Top of Osp reported @ 6413 -- No way to confirm

(^{Interval +} 6420 - 6430) ^{marked} samples → 6440 - 6450

(~~interval~~ 6 Mixture;

1. Dol, ^{olive} lt-gy, v f rhombic
2. Dol, lt-olive-gy, sandy, f-rhombic
f-c rd & fr sd ^{no res.}
3. Ls, lt-olive-gy; f-gran to ds
4. Ls, ~~lt~~ med-dk-gy ≠ dolie? ^(?)
silty ^{to} tarry, Ru; br-gy sil silty agy

Samples marked 6490-6500 = interval? 6470-6480

Mixture

1. Dol, lt-olive-gy, f-rs sd, v rhombic
2. Ls, med-gy, dolie?, silty, v f-xlls
3. Ls, lt olive-gy ds

Patterson

Samples marked 6550 - 60 = interval

6530 - 40 —

Red, lt - olive - gy to med -
gy, f - on sty, v f - f rhombic

Samples 6560 - 6779 (TD) missing.
well ends in Everton

TD: 6779 (Driller)

6770 (Logger)

McRay & Associates
Hearst No 1-23

Cleburne Co, Ark
23-11N-11W

Date: 10-27-76

GL-718

TD: 5271'

KB-729^x
2540' FSL & 1975 FWL
N^{1/2} NE SW

- 0-300 No samples
- 300-312 ss, med-lt-gy, sil, vf-f gr, ^x tangrs
- 312-323 sh, med-dk-gy, f-mic
- 323-330 ss, med-lt-gy to med-gy, sl limy
to limy, silty, clayey, f-gr;
crin
- 330-354 sh, med-dk-gy, f-mic
- 354-370 ss, med lt-gy, v sl limy,
silty, vf-f gr; crin
- 370-390 NS
- 390-400 ss, med-lt-gy, sil, f-mgr; tr Cgr
- 400-410 NS
- 410-427 ss above ^{July 77} Ls, med-gy, v crin,
sl ^{to v} sdy (f), vf-x lls; ^N is probably
in lower 10'.
- 427-523 sh, dk-gy, f-mic, fissile
(in 520-50)
- 523-