

#14

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1941

Measured
Feet.

Some ball?

(Sec. Circ. 160)

NOTE: CHECK THIS
BEDDING!

CARVER SECTION

NW 1/4 Sec 6 - T. 15N - R. 19W. NEWTON CO., ARK
SECTION STARTS AT WATER LEVEL.

(* SEE
MC-1A NEXT
PAGE)

- *MC - 1 "MASSIVE" SANDSTONE. WHITE HED, RD, 2' 6"
NEU... FROSTED GRAINS - FRIABLE WHEN STRUCK,
CEMENT LEACHED? ALL ONE LEDGE.
- MC - 2 THIN BEDDED SANDSTONE. WHITE, HED, 0' 6"
ROUND, FROSTED GRAINS. NO LIME - LEACHED?
THIN (6") LEDGE.
- INTERVAL - JACOBS?
- MC - 3 THIN BEDDED LIMESTONE. LT. GRAY-BUFF, 1' 11 1/2"
FINELY FIGURED DENSE LIMESTONE. - A CLASTIC
LS? LOWER 1' 6" GR-BUFF F-M-XLN OOLITIC(?) LS.
- COVERED INTERVAL @ 6 1/2"
- MC - 4 THIN BEDDED LIMESTONE. LT. GRAY-BUFF 1' 10"
FIGURED DENSE LS. SHOWS V. FINE HORIZONTAL
LAYERS IN X-SECTION. UPPER PART HAS SOME
XELIZATION.
- MC - 5 VERY THIN BEDDED (1"-2") SLABBY 1' 2"
LIMESTONE. LT. GRAY-BUFF, FINELY
FIGURED DENSE LIMESTONE. LITTLE GLAUCONITE?
OOLITES, FRAGS OR FOSSILS? - PRETTY ROUND! FEW SS GRNS.
- MC - 6 THIN BEDDED LIMESTONE. LT. GR-BUFF 0' 11 1/2"
DENSE FINELY FIGURED LS. FLOATING ROUND,
FROSTED SS GRAINS. INCR. UPWARD.
- MC - 7 THIN BEDDED LIMESTONE. LT GR-BUFF 1' 3 1/2"
FINELY FIGURED DENSE LIMESTONE. ISOLATED
(LOOKING IN 2 DIMENSIONS) PATCHES. M-C XLN
CALCITE. NO SS GRAINS, LOWER PART, QUITE A FG
UPPER.

CARVER (CONT'D.)

* MC-1A
(FIRST SAMPLE)

see above
THIN BEDDED LIMESTONE. GRAY-BUFF UP 0' 6 1/2"
YELLOW TO DS FIGURED LS. LOADED WITH OSTRACODES.
(NOTE SS BELOW THIS MIN. 3' BELOW WATER LEVEL.)

MC-8

THIN BEDDED LIMESTONE. LT. GRAY-BUFF 1' 3"
FINELY FIGURED DENSE LIMESTONE. LOTS
FLOATING ROUND, FROSTED SS GRAINS (1/8-SS?)

MC-9

THICK BEDDED LIMESTONE. LT. GRAY BUFF FINELY 1' 8 1/2"
FIGURED, SANDY DENSE LS. SS INCR. UPWARD
AT TOP SS-SD, FIGURING STILL SHOWS UP

MC-10

THICK BEDDED LIMESTONE. GRAY-BUFF FINELY 1' 11"
FIGURED DENSE LS. FIGURING HERE IS DIFFERENT
(LOT OF IT IS OSTRACODES) MORE CURLY-Q'S. LOUSY WITH
OSTRACODES.

COVERED INTERVAL 2' 9"

(THOUGHT TO BE OCCUPIED BY ROCKS OF SAME
LITHOLOGY AS MC-11.)

MC-11

THIN BEDDED GRAY DOLOMITIC SS. 0' 8 1/2"
F-H. GRAINS - LOOK ANGULAR? GREENISH
AT BASE. (C. gr. dol. ? JCM.)
3/30/51

MC-12

MED. BEDDED DENSE LIMESTONE, - (CONGLOM- 0' 6 1/2"
ERATIC? LT. GRAY-BUFF DENSE FIGURED
LIMESTONE - LOOKS LIKE CHUNKS DS LS INDS LS.
1/2" WH. LIMY SS AT BASE (gr. fig. gran. dol. + wh. calc. veins)

MC-13

Med. to thick ^{bedded} LIMESTONE WITH FLOATING ROUND, 1' 10 1/2"
FROSTED SS GRAINS. SURFACE LEACHED UNTIL
AT PLACES APPEARS TO BE SANDSTONE. WH.
LIMY M-ROUND FROSTED SS AT BASE, GRADING
UPWARD INTO GR-BUFF M-C YELLOW LS WITH
FLOATING SS GRAINS

MC-14	MEDIUM BEDDED SANDY DENSE LS. OR LIMY SS - ABOUT 50-50. MEDIUM, ROUND, FROSTED GRAINS. MAY BE LITTLE SANDIER TOP & BOTTOM THAN IN MIDDLE.	2' 3"
MC-15	Med, UNEVEN BEDDED, (ROUNDED SURFACES) UNEVEN WEATHERING - LIMY SS (OR SDY LS. AT BASE, GRADING UPWARD INTO GRAY-BUFF DENSE FINELY FIGURED LIMESTONE. OSTRACODES?	1' 1"
MC-16	Med BEDDED SANDY DENSE LIMESTONE, ROUND FROSTED GRAINS (LOWER 8") REST IS LT GRAY-BUFF, DENSE, FINELY FIGURED LS, NOT SDY.	1' 6 1/2"
MC-17	Med BEDDED DENSE, LT GRAY-BUFF FINELY FIGURED LIMESTONE. NOT SANDY. A 1" LIMY SANDSTONE LAYER AT VERY TOP. (Total Everton (4 layers) = 10 1/2")	1' 2 1/2"
	COVERED INTERVAL	2' 1/2"
St. Peter?		
MC-18	MEDIUM-BEDDED SS. WHITE V. SLIGHTLY LIMY SANDSTONE. F-M ROUND, FROSTED GRAINS. MAY HAVE BEEN MORE LIMY BEFORE WEATHERING.	2' 5"
	COVERED INTERVAL	5' 11 1/2"
MC-19	THIN BEDDED. WHITE SS. VERY SLIGHTLY LIMY, JUST A BUBBLE OR TWO. WHITE F-M ROUND, FROSTED GRAINS. GRADES UPWARD (IN 2") TO MC-20	11' 9"
		18' 3"

MC-20	MASSIVE, DARK GRAY M-F YLLW DOLOMITE FEW FLOATING SS GRAINS. HAS FIGURED APPEARANCE WHEN WET, BUT MAY BE XL OUTLINES.	8' 7"
MC-21	THIN BEDDED (6"-13") WHITE SS. WHITE, LIMY M-ROUND, FROSTED SANDSTONE. UPPER, PART VERY FRIABLE WHEN GET INTO IT.	5' 6"
	COVERED INTERVAL (OCCUPIED BY ROCKS SIMILAR TO MC-22?)	4' 9"
MC-22	VERY THIN BEDDED WHITE TO GREENISH THINLY LAMINATED SAND & SANDSTONE. SOFT, WEATHERS BACK	2' 5"
	COVERED INTERVAL: (SIMILAR TO MC-22?)	8' 1"
MC-23	MEDIUM-BEDDED BROWN-BUFF SDY DOLOMITE, GRADING UP INTO WHITE F-MEDIUM GRAIN SS AN BACK INTO BROWN-BUFF SDY DOLOMITE	2' 6"
MC-24	THIN BEDDED (1") BLOCKY DIRTY GRAY-BROWN MED, ROUND FROSTED SDY DOLOMITE. VERY THIN IRREGULAR BEDS. OSTRACODES?	0' 4"
MC-25	THIN BEDDED (12"-15") SS. WHITE, BROWN STREAKS (DOLOMITE?) SS. RD & FROSTED, I THINK. MORE FINE GRAINS THAN USUAL SANDSTONES. SL. DOLOMITIC IN LOWER PART, GRADES UPWARD INTO MORE BROWN DOLOMITIC SS. V. UPPER 2" WHITE SS, NO DOLOMITE-LEACHED?	2' 4 1/2" 31' 6 1/2"

(See published description Circ. 160)

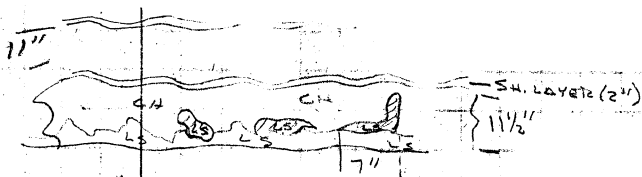
	COVERED INTERVAL	3' 0"
MC-26	THIN BEDDED (5" TO 1") SS. BROWN, DOLOMITIC SS AT BASE, (4") WHITE, F-M ROUND, FROSTED LIMY SS ABOVE	5' 1/2"
	COVERED INTERVAL	2' 7"
MC-27	SOFT, EASILY WEATHERED GREEN AND WHITE SANDSTONE. 7" DIRTY GRAY VF-FXLLD DOL. AT BASE. REST. GREEN-WHITE F-M LIMY RD, FROST'D SS. IS BUT V. SLIGHTLY LIMY. AT TOP.	5' 1"
MC-28	DIRTY GRAY VF-XLLD, F-VF SDY DOL. WITHIN SS LAMINAE. GRADES UPWARD INTO GRAY VF XLLD DOLOMITE	4' 3"
MC-29	THIN BEDDED SS. YELLOWISH-GRAY F-M ROUND, FROSTED LIMY SANDSTONE. ARGILLACEOUS?	0' 5"
	COVERED INTERVAL (SOFT SS?)	2' 3/2"
MC-30	THIN BEDDED SS. WHITE LIMY FINE TO MEDIUM GRAINED LIMY ROUND, FROSTED SANDSTONE - HAS GREENISH CAST.	0' 4"
	COVERED INTERVAL (SOFT SS?)	3' 2 1/2"

MC-31	SOFT GREEN SS. NO BEDDING, PLATTIN OVERHANG PROTECTS IT. GREENISH-WHITE F.M. ROUND, FROSTED LIMY SANDSTONE, LIMY. M-C GRAINS (Total Spots 73' 2 1/2")	2' 6"
<u>PLATTIN</u>	INCREASE UPWARD TO PLATTIN CONTACT.	
MC-32	THIN-BEDDED LT. GRAY-BUFF DENSE LIMESTONE. SOBY AT VERY BOTTOM, GRADES INTO DS LS WITH FLOATING SS GRAINS INTO DENSE LS, NO SS GRAINS. SCATTERED CALCITE XCLS.	1' 7 1/2"
MC-33	VERY THIN-BEDDED (1/4" TO 1/2") LT. GRAY-BUFF DENSE LIMESTONE, SCATTERED CALCITE XCLS. THIS LAYER WEATHERS BACK. UPPERMOST PART IS FINELY FIGURED - WHAT CAUSES THIS?	1' 7"
MC-34	THIN-BEDDED (1" TO 6") LT. GRAY-BUFF DENSE LIMESTONE, SCATTERED CALCITE XCLS FEW SCATTERED ORANGE-PINK SPOTS IN UPPER PART. GRAY VF-F XCLU LS LAYER (2" THICK) IN ABOUT MIDDLE	2' 9"
MC-35	VERY THIN-BEDDED, SHALY LAYER - IS NOT SHALY. LT. GRAY-BUFF DSLS. WEATHERS BACK - MUST BE BECAUSE IT IS SO THIN-BEDDED (1/4" MAXIMUM) LOWER PART MAY BE SHALY, OR MAY JUST BE WEATHERED.	0' 4"
MC-36	THIN-BEDDED (3/4" TO 3") LT. GRAY-BUFF DENSE LIMESTONE, WITH SCATTERED CALCITE XCLS. ORANGE-PINK SPOTS IN UPPER PART.	2' 7"
MC-37	VERY THIN-BEDDED SHALY ZONE. BROWNISH-GRAY SHALY LIMESTONE, SHOWS V. FINE LAMINATIONS.	0' 10 1/2"

MC-38	THIN-BEDDED (1" TO 9") LT. GRAY-BUFF DENSE LIMESTONE. SCATTERED CALCITE CRYSTALS FINELY FIGURED AT BOTTOM. NO TEXTURE MIDDLE AND TOP.	3' 10"
MC-39	THIN-BEDDED (1" TO 10") LT. GRAY-BUFF DENSE LIMESTONE, WITH SCATTERED CALCITE CRYSTALS. GRAY VF XLN LS IN CENTER. (8")	3' 9 1/2"
MC-40	THIN-BEDDED (3" TO 17") LT. GRAY-BUFF DENSE LIMESTONE, SCATTERED CALCITE CRYSTALS. FINELY FIGURED AND HAS THAT "KONGLOMERATIC" TEXTURE. (LOWER 1/2) PINK SPOTS IN LOWER UPPER 1/2 COVERED INTERVAL. (V. THIN BEDDED PLATTIN). 1' 1"	4' 1"
MC-41	THIN-BEDDED, IRREGULARLY BEDDED (1" - 3") GRAY MEDIUM-FINE CRYSTALLINE DOLOMITIC LIMESTONE. SANDY? PINK SPOTS OR CRYSTALS SOME TAN DOLIC F-VF SS. LOWER PART. DOLIC LS SILTY TO SHALY	2' 11"
MC-42	VERY THIN-BEDDED (1/2 - 1 1/2") BROWN-GRAY VF SANDY LIMESTONE, OR LIGHT SANDSTONE, GRADING UPWARD INTO GRAY SILTY DOLOMITIC OR DOLIC LIMESTONE.	1' 9 1/2"
MC-43	VERY THIN- TO THIN-BEDDED (1/2" TO 6") GRAY AND TANNISH-GRAY SILTY TO VERY FINE SANDY LIMESTONE OR DOLOMITIC LIMESTONE.	2' 4"

MC-44	THIN-BEDDED (6"-13") TAUHISH GRAY TO YELLOWISH-GRAY VF SDY TO SILTY LIMESTONE OR DOLOMITIC LIMESTONE, ^{LIGHTEST COLOR AND} (TOTAL OF 30' 1") MORE DOLOMITIC AT TOP.	2' 10"
MC-45	THIN-BEDDED GRAY, COARSE CRYSTALLINE CRINOIDAL LIMESTONE. HAS BARREL-SHAPED CRINOIDS IN IT. PRETTY DARK FERNUALE.	2' 3"
MC-46	THIN IRREGULARLY BEDDED GRAY COARSE CRYSTALLINE LIMESTONE, CRINOIDAL. WEATHERS RUBBLY, LIKE GILBERT FERNUALE. SCATTERED RUSTY SPOTS (PYRITE IF FRESH?)	2' 10"
MC-47	THIN-BEDDED, IRREGULARLY BEDDED GRAY MEDIUM TO COARSE CRYSTALLINE LIMESTONE. PYRITE (ON WAY TO LIMONITE) (TOTAL OF 6' 11")	1' 10"
MC-48	THIN LEDGE SANDSTONE - NO BEDDING APPARENT WITHIN LEDGE. LARGE BLACK PHOSPHATE PELLETS SCATTERED THROUGH (UP TO 1"-1 1/2" DIA)	0' 9"
MC-49	WT. TO YELLOWISH M-RD, FRESH'D LIMY SS. PLATY SH. GREEN PLATY CLAY-SHALE - NO FOSSILS SEEN	0' 4 1/2"
MC-50	THIN-BEDDED SS. WHITE MEDIUM-GRAINED LIMY SANDSTONE. MEDIUM ROUND FROSTED GRAINS. BLACK PHOSPHATE PELLETS.	0' 5"

- MC-51 PLATY SHALE. GREENISH-GRAY PLATY CLAY SHALE. BLACK PHOSPHATE PELLETS. NO FOSSILS SEEN. PINK LIME XLS IN VERY UPPERMOST LAYER. 0' 1"
- MC-52 THIN IRREGULARLY BEDDED PINKISH-GRAY MIC XLLN LIMESTONE. PINK CRYSTALS, GRAYER AND MORE FINELY CRYSTALLINE TOWARDS TOP. VERY THIN SHALE BREAKS BETWEEN BEDS (JUST A LINE, ALMOST) 3' 8 1/2"
- (V. COARSE CLASTIC LS LAYER AT VERY TOP)
- MC-53 THIN IRREGULARLY BEDDED LS. PINK, C-XLLN AT BASE. GETS PINK-BUFF AND MORE FINELY XLLN UP TO MIDDLE, WHERE HAVE REDDISH C-XLLN LAYER, WHICH AGAIN GRADUATES UP INTO PINK-BUFF F-XLLN LS WITH ^{WHITE CALCITE} XLLS 4' 2"
- (FINE CLASTIC LS AT VERY TOP)
- MC-54 THIN-BEDDED LS. THIN BROWN-BUFF F-XLLN LAYER AT BOTTOM, PINKISH CLASTIC, CONICAL LIMESTONE TO TOP OF SAMPLE. 3' 9"
- MC-55 THIN-BEDDED GRAYISH TO PINKISH-GRAY F-XLLN LS WITH ^{PINK} C-XLLS SCATTERED THROUGH. UPPERMOST LEDGE (4" THICK) GRAY F-M XLLN LS — (BOONS?) 1' 5"
- MC-56 EXTREMELY THIN-BEDDED. GRAY VERY FINE CRYSTALLINE LIMESTONE TO DENSE LIMESTONE — LOOKS LIKE SHALE LAYER, BUT IS ALL LIMESTONE 1' 5"
- MC-57 THIN-BEDDED (1/2" - 3") - 1/4" SHALE SEAM AT VERY TOP. BUFF CHEST AT BASE (1") GRAY CHEST ABOVE, BEDS IRREGULAR AND 1" TO 2 1/2" THICK, SEPARATED BY VERY THIN-BEDDED DS LS (AS 56) OR SH. SH BED AT TOP HAS LS IN IT, MAY BE LEACHED ZONE, BEDDING PRESERVED. LS IN UNIT IS GRAY F-XLLN 1' 3 1/2"



- MC-58 THIN BEDDED. CHERT AND LS. LOOKS ALMOST LIKE CHERT HAD ENCLOSED IRREGULAR SHAPED LS. PIECES (V. LARGE). GRAY-BUFF DENSE TO SEMI-CHALCEDONIC CH, GRAY, F-VE YLLN. LS. 0' 1 1/2"
- MC-59 PLATY SHALE AND/OR DENSE TO VERY FINE CRYSTALLINE LS. THIS IS ANOTHER ONE! SHALE AND LS, OR WEATHERED LS. 0' 2"
- MC-60 THIN BEDDED LIGHT GRAY LIMY CHERT AND DENSE TO SEMI-CHALCEDONIC CHERT. HAS PEBBLES LS, BUT ARE SMALLER. 0' 1 1/2"
- MC-61 PLATY SHALE AND/OR GRAY VERY FINE CRYSTALLINE TO DENSE LS. CHERT DOBBLE IN THIN ZONE 0' 4 1/2"
- MC-62 THIN-BEDDED (2"-7") IRREGULARY BEDDED GRAY DENSE CHERT. CHERT LEDGES SEPARATED BY SHALE ZONES AS BEFORE. SOME GRAY, F-YLLN CH 2" 8" LS INCLUDED IN WITH 1 1/4" CHERT WITH REPLACEMENT OUTLINES. 4' 1 1/2"

Note: St. Peter base revised since Circ. 160 published see 109

10-18-51

M-1

Rough Hollow
St. Joe ls. over wh. f. gr. ss. (no nodules) over 6" ool. ds. to sdy. ls. like Jasper ls. wh. f. ss. exposed below this in stream bed. Could be Everton or possibly St. Peter. (Thin ool. ds. ls. found in St. Peter(?) tap on N. side near mouth of hollow. Check this again. (9-52 ool. ls. is Everton)

M-2

Rough Hollow.
Anticline axis. OF dips downstream about 5° N. 80° E. OF dips upstream about 10° - 13° W or SW.
OF underlain by 18" Platin dense ls. which has dark dolomite surface exposed below it. This could be either in Platin or bevelled St. Peter. No other exposures of Platin.

M-3

Trench reveals ool. ds. ls. passing under OF here in stream bed. No Platin present. Ool. ls. is same as at M-1. - either OE or Osp. (9-52 OE)

4-8-52 Rock Cr. - 2nd S. ravine from
① bridge to east, West side of
M-4 ravine

St. Joe ls. (contact covered)
Covered 6-10'
White f. ss. 5-6'
ool. fossil ls. - about ostracodes at
top 28'
Some thin (6"-1') ss. beds in middle;
basal pt. is f. xth to ds ls., ool. +
sl. sdy. Base covered

White ss. 23'
Dk. sdy. dol. to bottom ravine 35'

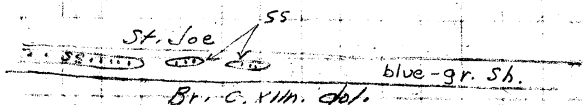
⑤
M-5 Head of ravine above spring
in E. wall flows from contact
St. Joe ls + blue gr. sh. (no basal
ss.)

St. Joe ls. - red fossil ls. containing
blk. phosphate nodules $\frac{1}{2}$ "-1" in dia.
Blue-gr. platy sh. 6"
Tan to greenish tan f. limy ss. 2'
Wh. f. ss. exposed 8"

A-10-52

©
M-6

Spider Creek, (n. line sec. 1)



St. Joe (red)

Spale 2"-3"

Wh. f. ss. 0-24" (lens)

Blue-green platy sh. containing
wh. ss. lenses 2'

Br. c. xlm. dol. 18"

Wh. f. ss. 24"

Blk. f. sdy dol or dol. f. ss. 2'-3'

Wh. f. ss. containing gy sdy ls 4" thick

A-11-52

M-7

West of Jasper, Ark. along
Diamond Cave rd., up branch
paralleled by first trail to W. on
Mt. Judea map. NW 1/4 sec. 34

St. Joe ls.

Sdy congl. of reworked blk.
phosphate + chert nodules 5"

Tan platy to red-tan clay sh. 10"

Blk. irreg. layer phos. + chert

3"-8"

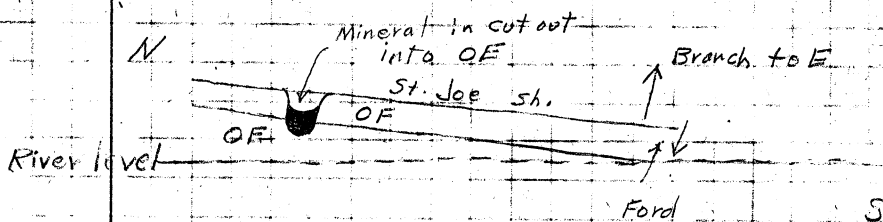
Tan to blk. platy sh.

3"-6"

Cason? or
St. Joe?

Fervale ls.

4-17-52 About 1/4 mi. up river from Jasper
 M-8 School on E. bank Buffalo River

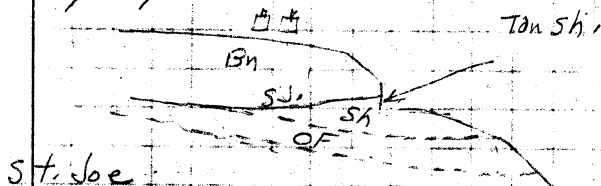


Mineral is pink c. xllb. to tan
 resinous ls. Sample taken.
 Pocket about 15' wide in OF

4-17-52

(D)
 M-9

Jasper, Ark. SE 1/4 sec. 33, T. 16 N, R. 12 W.
 Road cut below twin frontier
 style houses on west side to
 gully to south.



Tan fossil sh., abnt. crinoids upper pt,
 Lower 8' is tan & rusty mottled
 clay sh., no fossils - some blk
 siliceous, phosphatic(?) nodules
 might be Siloe sh. on Casen remnant
 Considerable carbonaceous material
 in clay below limy crinoidal upper shale.
 Consider St. Joe for time being.

1-18-52 W. ford near Vendor, east side

(E)

Big Creek.

M-10

Fernvale 20±'

Plattin - dk. blk. ds. ls. with
blk. ch. nodules - 2'

gy-blk. ds. ls. 6" (about 5' above
stream & leaf)

Farther N. 6' yellow-tan dk br
br f. gran dol. on gy. ds. ls.

(F)

1st Ford over Big Creek

OF is v. thin bedded

M-11

6' OC is present on opp. side
ravine - nodules abnt.

OC in sink at low spot

10-20-57

M-12

Lick Cr. E ravine NE fork

OP 885

Op dips 16° S 65° E

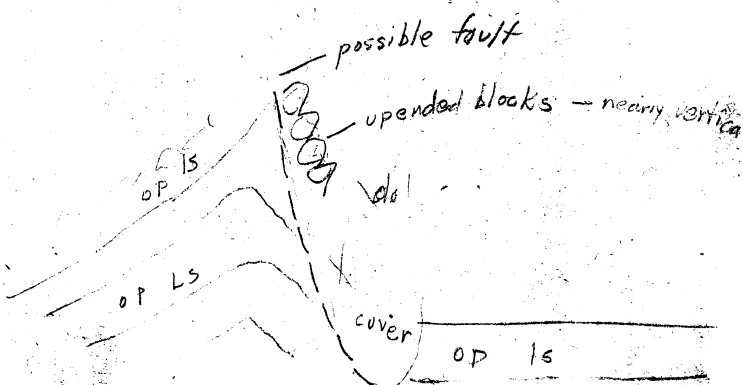
OSP

OE

OE dips sharply SW. in
same ravine

Can't meas. dip - beds
dip with ravine approx.
for 100' or more

Op ls beds south 20' below top



1070' horizontal Op ls

Chevron fold + fault?

1055' horizontal Osp



M-14

Vertical cliff on Cave Crack

SW of Everett Hansen's house above sea level

all contacts

- SW Red gray f. rim ls, with 1.5" phosphatic basal ss.
- OF 916 barrel-shaped crinoid on top surface
- OP 896
- Osp 867
- OE 795

Basal ss. of St. Peter is 15' thick has 10'-15' range setar N to S along Cave Crack - good ledge former upper OF is br. sdy dol + thin ss. contact Osp + OE is distinct + slightly irregular. ss. above contact is wh. f. m. ss - no congl., pyrite, or glauca. evident.

Contact Osp + Op on NE side cliff has 6"-8" khaki-colored dol. (Op) On SW side has 4' tan to br. f. gr. dol. This thickens to 6' ± at a Kennedy house in next ravine S on W side. There it weathers "worm-eaten" in part. No ss. between it and qz ds ls. - no unconf. evident. Appears to belong to Plattin as lower dol. docs at Gilbert

No St. Clair here or at Kennedy's - barrel crin. on top.

next Gilbert 5' set Hansen's 5' 2' sdy dol.

M 15

Upper Cave Creek, about 1/4 mi. N. down stream
from state at Bass, Ark. at large conc
SW 1/4, N. 1/4, Sec. 27, west wall of ravine
St. Joe - Ferrisale contact 800' at mouth of
large cave in St. Joe ls.

Boone

(Boone)
Blue-blk chert

St. Joe ls. (red) red ls with dr. phos nodules
2' above base

sample
taken

← 3" wh. nodules with blk phos nodules

13" tan non-limy nodular ss
nodules are ls stringers +
blk non-sandy

Ferrisale

Barrel-shaped ovoids on
top surface irreg.

Note: Shale at base - St. Joe
goes into blk nodular bed
50' to N. of above with 3"
ss over it. No or little shale.

Probably B. Miss. of reversed Jones

11-10-52

covered -10 of
21-22-52

In stream bed

M-11a

Cave Cr., F. ravine near sink hole

St. Clair ls., red with blk nodules

3"

Tan sdy. sh. + ss.

St. Clair ls. elev. 952

Elev. 942.5

Wh f-m. xln ls. with tan to br. mottling, fossiliferous, weathers subangular, medium bedded, grades down into reddish-gy. f. xln ls. with greenish cast, glauc., pyrite, lower part exposed is sdy and contains a few blk phos. nodules.

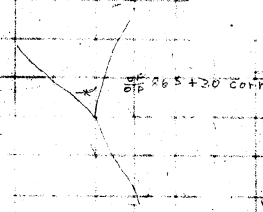
Elev. 937

Appears to rest on tan clay sh with ss. layers or nodules and blk phos. nod. This may be Cason shale. (P.S.), glauc. in layers

Covered interval - bank cut out suggests shale

Elev. 934

Top Fernvale, gray c. xln ls., red beds.



11-29-57

M-17

Cave Creek sec. 36, 1st 1/4 sec. 36

Sycamore Hollow Cave Cr., east gully
badly covered

985

Basal M. ss. 10" br. phos. nod. ss.

Tan matt. sh. with blk. phos. nodules 7'-8' thick
only upper 2' exposed

979

Gay. c. n/n. Ferr. shale

12-11-52

M-18

Section Hollow off W. side

about center sec. 23 on W. side

Red f. x No. St. Joe ls. 2'

Red full m. St. Joe with

some blk. phosphate becoming 1'

tan platy at base

Tan^{sh} platy shale with blk. phosphate 10"

Elev. 96

covered to 4'

Ferr. v. calc.

Looks like basal St. Joe sh. here.

12-16-52

M-19

Buffalo R. bend at Mt. Horsey
(Yelville quad.) above Lead Hill
about 1/2 mile.

River level assumed elev. 680

Top Powell 698

small chert frags. in c. x m sdy
br. dol. (ae) over thin bedded
gy to 14 buff. f. x m to ds.
dol. (Opw).

top of white quartzite
6-8" thick in base
of OE 750

Dips to W. giving
short thickness here
as qtzite is 50yds W
of Op.

Measured 75' interval
at Cave Creek 12-15-52
on N. side Buffalo R.

3-18-53

M53-1

Pate Mtn., Sec. 23,
East Knob, N. side

Top Cb. 985

Cf 1180

Tap Knob (N. side) 1275

Pitkin on top (Archimedes in dk. fossil ls.
flat on top.

S. side S. Knob

Pitkin ls. on top

Fossil ool. ls. Top 1270

Blk. sh. (could be 30' sh.?)

Dk. Ds. ls. base 1210 top 1230

M53-2

Blk fossil ls. in east ditch of road below

5' blk + tan fissile sh - looks like Moorefield

abt. 6" thick with shale below.

3-22-53

Road (impracticable) up mountain
due S. of Dengola E/W 934.

Rd made 1951 follows old trail.

House on Cf? no contact

Top Cf. 1155'

Top Cp indefinite - covered slope
begins at 1335'

Base of Hale ss. at 1400'

Covered interval could be Cape

Hill equiv. or more Pitkin?

Pitkin ls. contains blk'd sh. in
lowermost bed. Much oolite
toward top.

Hale ss. is about 40' thick.