#8

FIELD NOTES

Notebook F-1
Newton and Searcy Counties, Ark.
Fall Season 1951

Logs are in log file

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1941

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10-17-51

Mapping in sec 5; T 15 N; R 20 W of MT Judea Quad, Ark

F-1 contacts on east side of stream at $\frac{SS}{OF}$ / OSP Not observed, covered by Boone talus.

10-20-51

Loc F-2 elev. 887 on river

① 18" Gray-buff, v. ds, ls w/ calc. xlls & veinlets
② 6" M xlln ls w/ many ostracods
③ 4' f gr ss, Wh.
④ 6" oolitoid ls, ds gy-buff, ostracods
⑤ 1' sand
⑥ 2' gy-buff ls, oolitoid, ds. ostds & macrofoss. at top

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10-22-51

Loc F 3

Sec in stream bed on N end of area

St Joe	Basal SS	18'
Fernvale		9'10"
Platt in*		7' 6"
St. Peter		9' 9"
Everton		

* Upper Platt in very dk gy - black & petroliferous

Is Platt in present in this section or does Fernvale rest on Everton? If last true the ss is a stinger in Everton and the ls here called Platt in is the upper lime of the Everton

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10- 51

F-4 Fernvale over Everton
Fernvale cross found and
cryptozoaan structure in upper Everton
Sample SF-1 from below crypto structure
(about 1')
Sample SF 2 from above Cryptozoaan
level in outcrop about 10 ft to N.
is Flatlin?

10-30-51

F-5

SJ
BMSS 1'
OSP 945'

dip on SJ is 45° W
15°

F-6 St Joe
OSP - no contact observed
St Joe turns up
Dip N 75° E. at 25°

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F-7 11-14-51

Cane Branch.

920' OE (10' approx)
855' OP
850' OSP
OE

platten has dolic phase in about middle of exposure. Also chert on top.

In Fernvale no crins. found - trilobite remains and Rhynchotrema sp found.

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Bedding

Fissile	Less Than 1/16"
Platy	1/16 - 1/2
Very Thin Bedding	1/2 - 2
Thin-Bedded	2 - 4
Medium-Bedded	4 - 12
Thick-Bedded	12 - 36
Massive	Above 36

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Section from 20-11-51
Everton Formation To Base of Miss. System
Cliff north of junction of Little Buffalo and
Buffalo Rivers Sec 21 T16N, R20W Newton Co.
Arkansas.
Section starts at river level (Buffalo River)
at elevation of 755 feet above sea level.

HB-1 Thick to massive bedded sandstone 5'
(estemated thickness of ss. below water
level 4'. Sample taken from first foot
above water level and slightly under)
White to greenish white, fine and medium
grain, sl. calcareous sandstone. friable.

HB-2 Thick - massive bedded sandstone 5'
White to greenish white, medium,
subrounded grains, calcareous, friable
(note: both units of ss may be thin
bedded. Erosion by stream gives
massive appearance. Sand beds vary in
grain size from fine to medium grains.)

HB-3 Medium bedded Sandstone 1'3"
Medium bedded, medium grained, gray -
white, weathers greenish, calcareous,
well rounded grains

HB-4 Thin - Medium bedded (3"-4") Limestone 9"
DK gy very fine grained to dense
oolitic ls.

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HB-5 Medium Bedded, very sandy limestone 1'
Light gy. with well rounded medium grained sand, sand close to 50% of volume of unit. Lime tends to weather out.

HB-6 Medium bedded limestone 1'2"
DK gray, very oolitic, very fine. crystalline to dense. Upper ½ with sand patches

HB-7 Medium bedded limy sandstone 9"
Light gray, medium sized, well rounded sand grains. Cement abundant enough to almost "float" grains of sand. Shows some gradation with overlying unit but break appears to exist between them

HB-8 Medium bedded limestone conglomerate 7"
Dense ls. pebbles up to 1" long (dense and oolitic) in matrix of 50% sand and 50% lime. Unsorted fine to medium subrounded sand grains. Gray in color

HB 9 Medium bedded Sandstone 1'5"
Fine to medium grained, well rounded gray to white with green weather ing very limy. About 50% calcite cement

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HB-10 Medium bedded sandstone 1'2"
White weathers green, calcareous, friable
fine - very fine, well rounded, grains
Color tends to be grayish in unweathered
portion

HB-11 Medium bedded sandstone 6"
Light gray, beds of about 4" thick
Light gray gets darker upwards
Fine to medium, well rounded, grains,
50% (almost) is cement

HB-12 Thin bedded limestone 4"
Dark gray, dense limestone
Greenish gray silt partings with
scattered rounded sand grains

HB-13 Medium - Thick bedded Sandstone 1'3"
Gray-white, fine grained, rounded
Very sandstone. Ostracods (?) in
lowest part (HB-13 P)

HB-14 Thin - medium bedded Limestone 4"
beds 1"-4" thick, dark-light gray banded
dark l.s. is dense; with light light colored
calcite with sand grains (?). Bands up
to ¼" thick - Alternating clear calcite
and dense l.s. Silt layers present (?)

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HB-15 Thin bedded Sandstone 9"
White, fine, rounded grain sandstone. Lower half has small pebbles of brown-gray dense limestone. Upper has white and gray banded and streaked sandstone with some silt present.

HB-16 Thin to fissile bedded limestone 5"
Gray, oolitic (?) fine xlln-dense. sandy in lower part grading upward into almost pure ls. In center beds appear to be "junky"

HB-17 Thin-Medium bedded Sandstone 5'4"
White. gray white fine grained, rounded sandstone, limy cement, weathers green.

HB 18 Fissile to very thin bedded ls. 1' 8'
Dark gray with light gray streaks few scattered sand grains locally and in other places up to 25% sand
Thin shaly partings between lime beds
The thin beds have been folded and crumpled so that they present a wavy appearance in outcrop
(Is this the cryptozoon growth of various authors)

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HB-19 Thin - medium bedded sandstone 11"
Gray and white streaked very limy (up to 50%) round, medium, sandstone. No good sorting in sand. Sand almost floats in lime in places

HB-20 Fissile to very thin bedded limestone 2'
Dark gray, dense limestone with silty partings. No sand present as in Unit HB-18. - Wavy structure of HB-18 is present.
Note slightly sandy in upper part - slight gradation with overlying unit

HB-21 Medium bedded sandy limestone 1'11"
Sandy limestone at base with sand decreasing upward in unit - pure lime with scattered floating sandgrains at top.
gray to dark gray.

HB-22 Thick bedded sandstone 4'
White clean fine - medium rounded limy poorly sorted sand.

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HB-23 Thick bedded sandstone 5'
White fine-medium poorly sorted
limy rounded sand

HB24 Thick bedded sandstone 2'6"
white fine-medium grained
poorly sorted, limy rounded sand

11-21-51—

HB-25 Medium bedded sandy limestone 1'2"
Lt gray-dk gray in color
Grades from sandy at bottom with
scattered grains at top. Lower part appears
to be a limy sandstone. Lime in top gray
bottom is light gray

HB-26 Medium Bedded sandstone 6"
Gray with light gray streaks
fine grained sandstone well rounded grains
occasional limestone pebbles floating in
sand. Pebbles from this unit from
top HB-25 - slight discontormity with
HB-25

HB-27 Medium bedded sandy limestone 6"
Dark gray fine to dense sandy
limestone - sand in patches and streaks;
oolitic

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HB-28 Medium bedded sandstone 7"
Lt gray-brown, very limy, fine-medium rounded grained

HB-29 Thin bedded limestone 3"
DK gray fine crystalline to dense, oolitic, with few scattered sand grains. Sand more at contact with upper & lower beds

HB-30 Medium bedded sandstone 1'8"
Lt gray-gray, fine-medium rounded grains, calcite cement heavy, floats grains in places. Gradation with unit over

HB-31 Medium bedded limestone 1'2"
Gray sandy limestone fine crystalline limestone. Oolitic in part, fine sand floats in matrix. Sand decreasing upward

HB32 Medium bedded sandstone 11"
Fine-medium grained, dirty gray limy, rounded sandstone

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HB-33 Thin bedded limestone 3"
Gray with white streaks, fine crystalline - dense with floating sand grains

HB-34 Medium bedded sandstone 1'9"
Gray-white, limy, medium grained sand. Limestone pebbles floating in lower 3 inches. Grades upward into 2" sandy limestone which in turn grades into a white sand upward. The sandy limestone is in the center. Top 9" is white sand

HB-35 Medium-thick bedded limestone 4'
Light gray-dark silty, sandy fine crystalline limestone. Upper 12" relatively pure limestone. Sand grains floating throughout?

HB-36 Medium bedded limestone 2'
Gray, very fine sandy limestone oolitic in part. Sand content increases upward - Upper 4" = a limy sandstone

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HB-37 Medium bedded sandstone 4'3"
White to gray fine to very fine grained limy sandstone. Friable

HB-38 Medium bedded sandstone 5'
White to gray, fine to very fine grained limy sandstone. Friable

HB-39 Medium to Thick Bedded Sandstone 5'
White to gray, fine to very fine grained limy(?) sandstone Friable

HB-40 Medium to thick bedded sandstone 5'
White to gray, fine to very fine grained limy(?) sandstone. Friable

HB-41 Medium to thick bedded sandstone 5'
White to gray, fine to very fine grained limy(?) sandstone. Friable

HB-42 Medium bedded sandstone 5'
Lt gray - brown, hard, dolomitic, slightly limy, rounded sandstone

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HB-43	Medium bedded dolomite Dark gray, very hard, sandy fine crystalline dolomite. Few sand grains floating in dolomite	2'5"
HB-44	Thin to medium bedded sandstone Green-white med. rounded grained friable sandstone. Limy cement. Slightly dolic and harder in upper 2 inches.	1'3"
HB-45	Medium bedded dolomite Very dark gray, hard, sandy dolomite. Up to 50% sand in lower part Medium grained sand decreases upward. Floating sand in upper part. Top beds have cherty (?) appearance. Breaks with sub-concoidal fracture.	1'5"
HB-46	Medium-Thick bedded sandstone White-gray white friable very limy medium grained sandstone. Harder in upper 6" - increase in dolomite?	3'1"

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HB-47 Medium bedded sandstone 2'4"
Gray, fine - medium, poorly sorted, very dolic sand. Dolomite up to 50% in parts. Mottled dark gray streaks and spots on light grady background. Sand decreases upward into sandy dolomite at top.

HB-48 Medium bedded dolomite 2'10"
DK gray fine crystalline dolomite
Small calcite crystal aggregates

HB-49 Thin bedded dolomite 1'2"
Gray fine crystalline dolomite with few scattered sand grains

HB50 Medium bedded dolomite 5'
Grey-brown fine crystalline hard dolomite. Some breaks with concoidal fracture

HB51 Medium bedded dolomite 1'2"
Gray-brown fine crystalline, hard dolomite.

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HB 52 Medium bedded dolomite 4'
Light gray fine crystalline dolomite which is sandy. Very sandy in parts others not so sandy. Floating sand in middle; top and bottom about 50% sand. Weathers out to form step on top

HB-53 Medium bedded sandstone 2'2"
Dark gray, dolomitic sandstone, very hard, fine-medium rounded sand grains

HB-54 Thin to medium bedded dolomite 3'10"
Gray-dark gray, fine crystalline, hard dolomite with few scattered sand grains. Grades upward into next unit.

HB-55 Medium bedded sandstone 1'6"
Light gray fine to medium, poorly sorted rounded sand with dolic cement

HB-56 Medium to thin bedded dolomite 1'3"
Dark brown-gray fine crystalline dolomite

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HB-57 Medium bedded sandstone 4'
Gray-brown fine-medium grained subrounded, dark gray and light gray streaked. Dolic

HB-58 Medium bedded dolomite 9"
Light gray to dark gray, fine crystalline dolomite with some floating sand grains.

HB-59 Medium bedded sandstone 5'
Gray, dolic fine round grained sandstone. Hard. Sand content decreases upward in unit

HB-60 Medium bedded sandstone 5'8"
Gray-brown, fine, well rounded sand grains. Practically floating in dolomite in lower part.

HB-61 Medium bedded sandstone 3'6"
Gray-brown fine-medium, rounded grained sandstone, dolic, in some places sand floats in dolomite cement. Sand decreases upward to overlying dolomite HB-62

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HB-62 Thick bedded dolomite 2'1"
Brownish gray dense dolomite
(Ostracods in micro-exam - no "P" sample)

HB63 Medium-thick bedded sandstone 5'5"
Gray brown; fine and medium, poorly sorted, rounded, sand; about 50% dolomite. 6" zone of pure white sand with limy cement 2' above base

HB-64 Medium bedded sandstone 1'1"
White, fine-medium grained, limy, friable sandstone

HB65 Medium bedded sandstone 1'10"
Gray-brown fine to medium rounded grains poorly sorted. Hard, dolic cemented. Dolomite locally increases until sand "floats"

11-22-51

HB66 Medium bedded sandstone 3'1"
Gray White fine to medium rounded grained limy sandstone
Some well cemented darker, brown, patches dolomite cemented) or weathering

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HB-67 Medium bedded sandstone 5'
Light gray, hard, dolomitic(?) fine to medium, poorly sorted, sand grains. Dolomitic(?) cement upto 50% of volume. Becomes Gray-brown in top, grading into almost pure gray fine crystalline dolomite in upper 8 inches.

HB-68 Medium bedded dolomite 10"
Fine-medium crystalline dolomite. Same as upper 8 inches of HB-67

HB-69 Medium bedded sandstone 5'
Gray-brown, dolic(?) round medium grain slightly limy sandstone. Lime appears to be spotty-possible seams filled with lime in dolic sandstone

HB-70 Medium bedded sandstone 2'9"
Gray-brown very dolic, fine-medium rounded grains sandstone. Sand near to "floating" in most of unit-poor sorted sand in abundant cement

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HB-71 Medium - thick bedded sandstone 5'
White, rounded, fine to medium grained sandstone. Locally calcareous and hard. Friable

HB-72 Thin to medium bedded limestone 1'5"
Gray-brown fine crystalline to dense clastic (?) very oolitic, ostracodal limestone.
HB-72P

HB 73 Medium bedded sandstone 4'
White limy, rounded, medium grained sandstone. Friable.

✓ HB-74 Medium bedded limestone 11"
Lower 6" very sandy limestone; upper 6" limestone with scattered "floating" sand grains.
Gray-brown basal & gray at top. ostracodal (HB-74P) in upper 2½ to 3"

HB-75 Medium bedded sandstone 2'3"
White, medium grained, rounded limy sandstone. One streak 1' from bottom very limy - a limestone with sand.

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HB-76 Thin bedded sandstone 2'6"
Yellowish white, round, medium grained, limy sandstone. Slope former, weathers back Friable. A clean sand

HB-77 Medium bedded sandstone 2'6"
Yellowish-gray, medium, subrounded granular. Dirty appearing, black grains. Limy. First unit of basal sand of ST Joe lime? Deep stained - mottled white and brown

HB-78 Medium bedded sandstone 1'5"
White, slightly limy, medium grained, Brown specked, sandstone with small phosphate pebbles (black)

HB-79 Thin to medium bedded sandstone 2'6"
White to light gray medium, subrounded grained sandstone with brown specks and black phosphate grains

HB-80 Thin bedded limestone
Pink and gray, fine crystalline, crinoidal limestone. Sample taken from first foot.

Fini

11:30 AM
11-22-51

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11-27-51

Section of Ordovician rocks on Buffalo River
Newton County Ark. (SW ¼ Sec 26 T16N R20W)
Section starts on the upstream side of the road between Hasty, Ark. and Jasper Ark., at a point where the road crosses the small open plank bridge just before going down into main stream channel.

HE-1	Medium to thick bedded sandstone White, fine to medium grained poorly sorted sandstone	1'10"
HE-2	Medium to thick bedded sandstone White, fine to medium grained, poorly sorted sandstone.	5'8"
—	Covered interval. Possibly same as HE-3.	7'
HE-3	Medium bedded sandstone Gray-white, very dolic, fine grained sandstone. Weathers brown. (Appears to be in place, but possibly not.) Center 10" dark gray hard pure dolomite.	2'7"
—	Covered interval. Probably same as HE-3&4	10"
HE-4	Medium bedded sandstone Gray-white, dolic, fine to medium grain sandstone. Weathers brown	1'8"
—	Covered interval	5'

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HE-5	Medium bedded sandstone Gray, fine to medium grained, very dolic sandstone "Harder than 7 hubs at bell"	1'2'
	Covered interval	3'7"
HE-6	Thick bedded dolomite Dark gray to gray, very fine crystalline to dense dolomite	5'7"
HE-7 HE-7P	Medium to thick bedded dolomite Gray. Fine crystalline dolomite with fine to medium sand up to 50%. Has few ostracods	5'
HE-8	Medium bedded dolomite Gray, fine crystalline, very sandy. About 50% sand in whole unit.	2'10"
HE-9	Thin to medium bedded dolomite Gray, fine crystalline dolomite	2'3"
HE-10	Medium bedded dolomite Light gray to gray, sandy to very sandy fine crystalline dolomite. Sandy zones interbedded dolomite	1'6"

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HE-11 Medium bedded sandstone 1'7"
White medium grained sandstone. Weathers brown

HE-12 Very thin sandstone 2'8"
Light gray to white, medium grained dolic sandstone. Outcrop has unusual brecciated appearance with no matrix between chips. (may be broken thin beds.) Silicious or dolic cement?
Lower 8" an ordinary friable sandstone

HE-13 Medium bedded sandstone 2'5"
White medium grained sandstone. Friable

HE-14 Medium bedded dolomite 4'5"
Gray very sandy, fine crystalline, dolomite
About 50% fine to medium sand
Lower part of section was top of shelf of underlying sandstone.

HE-15 Medium to thick bedded dolomite 4'3"
Gray to dark gray, sandy, fine crystalline dolomite. Sand is patchy - more at top and base than in center.

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HE-16	Thin bedded sandstone White medium grained, slightly limy sandstone. Some blush-green shaly partings.	6"
HE-17	Thick bedded dolomite Light gray sandy fine crystalline dolomite. Sand grains float in dolomite	5'6"
HE-18	Medium bedded sandstone White medium grained, slightly limy sandstone	5'
HE-19 HE-19P	Medium bedded limestone Light gray fine grain limestone. Lower 4" up to 50% sand. Grading (?) into pure limestone.	10"
HE-20	Medium bedded sandstone White fine to medium grained limy sandstone	1'4"
HE-21	Medium bedded sandstone White, fine to medium grained, limy sandstone. Generally friable, but one very hard zone in middle	5'2"

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HE-22 Medium bedded limestone 2"
HE-22P Light gray fine crystalline, estracodal limestone. (HE-22P) Few floating sand grains

HE-23 Thin bedded sandstone 5'
White, fine grained limy sandstone
Thin ½" to 1" lime streak at top of unit

HE-24 Medium bedded sandstone 4'7"
White, fine grained, limy, friable to hard sandstone

HE-25 Thin bedded limestone 1'3"
HE-25P Light gray fine crystalline limestone
Sandy and estracodal.

HE-26 Medium to thick bedded sandstone 3'9"
White, fine grained, limy friable sandstone
Thin bedded in upper 8"

HE-27 Thin bedded (2"-3") limestone 8"
Light gray, fine grained, oolitoid(?)
slightly sandy, limestone. Small
stylolites well developed.

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HE-28	Medium bedded sandstone White fine grained limy sandstone	4'11"
HE-29	Thin bedded (2"-3") limestone Light gray, fine crystalline, slightly sandy limestone	0' 8"
HE-30	Medium bedded sandstone White fine grained, calcareous sandstone	2'10"
HE-31 HE 31 P	Medium bedded limestone Gray, fine crystalline, ostracodal limestone (HE-31 P)	0' 5"
12-4-51		
HE-32 HE 32 P	Very thin bedded limestone Gray (weathers greenish gray) fine crystalline, very silty limestone weathers back and undercuts overlying limestone Ostracodal (HE-32 P)	0'-6"
HE-33 HE 33P	Thin to medium bedded Limestone Light gray fine to medium crystalline ostracodal limestone (HE-33 P) Silty (?) partings in lower part	1'2"

HE-34 HE-34P	Platy to very thin bedded limestone Light gray, fine crystalline, sandy, silty ostracodal limestone. (HE-34P)	1'0"
HE-35 HE-35P	Thin bedded limestone: Light gray, silty, sandy fine crystalline limestone. Blue-green shaly partings along weathered zones. Oolitoid and ostracodal locally (HE-35P)	1'6"
HE-36	Medium to thick bedded limestone Gray, slightly sandy, oolitoid fine crystalline limestone.	0'11"
HE-37 HE-37P	Medium bedded limestone Blue-gray oolitic ostracodal, fine crystalline limestone. (HE-37P)	1'7"
HE-38 HE-38P	Medium bedded limestone Light gray, fine crystalline, sandy oolitoid, ostracodal, silty(?) limestone. Oolites(?) and lime pebbles(?) appear to be ostracods at first sight. Especially silty in upper 4"	2'2"

HE39	Thick bedded limestone	2'4"
HE39P-1	Dark gray very oolitic, very slightly	
HE39P-2	sandy limestone. Ostracodal	
	with some trilobites. (HE-39 P, 2 bags)	
HE-40	Medium bedded limestone	3'11"
	Gray, very oolitic limestone	
HE-41	Thin bedded limestone	0'9"
	Gray brown very silty, oolitoid	
	limestone. Weathers back under unit	
	above. ½" to 1" limestone stringers	
	seperated by shale partings	
HE-42	Medium bedded limestone	2'3"
	Light gray, medium crystalline limestone	
	Oolitoid(?) or clastic(?) with lime	
	pebbles	
HE-43	Medium bedded sandstone	1'0"
	Gray, weathers brown, medium grained	
	sandstone. Limy in lower 3". Lime	
	leached out in upper part?	
HE-44	Thin bedded sandstone	1'9"
	Greenish, gray white fine grained limy	
	sandstone. Cross bedded (?)	

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HE-45	Medium bedded limestone Gray, oolitoid, fine crystalline limestone	0'5"
HE-46	Thin bedded sandstone Greenish white, fine grained, very limy sandstone	0'11"
HE-47	Medium bedded limestone Gray, Fine crystalline limestone, silty and sandy in part. Probably mostly a clastic limestone. One very sandy 3" unit in center.	2'5"
—	Covered interval	0'6"
HE-48 HE-48P	Medium bedded limestone Gray, very oolitic limestone with many ostracods. (HE-48 P)	0'6"
—	Covered interval	0'6"
HE-49	Medium bedded sandstone White, fine grained, calcareous sand stone	1'6"

HE-50	Thin bedded limestone Gray, fine crystalline, silty, sandy limestone. Sand mostly in lower 6"	1'7"
HE-51 HE-51P	Medium bedded limestone Gray medium crystalline, sandy limestone. Few ostracods (HE-51P)	0'8"
HE-52 HE-52P	Medium to thin bedded limestone Gray, sandy, oolitic limestone Bottom 4" very sandy decreases upward	1'6"
HE-53	Medium bedded limestone Light gray very sandy, fine crystalline limestone. This zone is almost covered and some question exists as to actual lithology and thickness	1'6"
HE-54	Thick bedded sandstone White(?) Buff & brown weathering fine grained sandstone. Slightly limy	3'8"
HE-55	Thin bedded limestone Greenish-gray, fine crystalline, slightly sandy oolitic limestone	0'2"
—	Covered interval (Thought to be a greenish shale or a very silty lime with greenish shale-greenish mud now.	0'6"

HE-56 Medium bedded limestone 2'9"
Gray fine crystalline with bluish green silty and shaly material throughout. Oolitic and very slightly sandy

HE-57 Thin to platy bedded limestone 3'1"
Gray, fine crystalline. Thin bedding due to shaly partings 1' from bottom is an 8" sandy streak

HE-58 Medium bedded sandstone 2'8"
White ? weathers brown fine to medium grained poorly sorted, limy ? 6" fine grained hard sandstone (Quartzite) in middle. Black weathering iron stain.

— Covered interval 7'0"

Basal Mississippian Sandstone

Fini —
4:30 PM 12-4-51

12-10-51

LEAD HILL SECTION

SE ¼ Sec 25, T16N, R19W, Newton County, ARK. (Section starts 61' above RIVER Level.)

YB-1	MEDIUM TO THICK BEDDED DOLOMITE GRAY TO ORANGE-GRAY FINE XLLN TO DENSE DOLOMITE. ORANGE COLOR IS IRON STAIN, OUTCROP HAS A SECONDARY COVER OF SECONDARY CALCITE. ALSO SOME SECONDARY VUG FILLINGS	5'—
YB-2	MEDIUM TO THICK BEDDED DOLOMITE GRAY WITH ORANGE GRAY MOTTLING FINE XLLN TO DENSE DOLOMITE. SOME DOLOMITE XLLS IN STRINGERS	3'2"
YB-3	MEDIUM BEDDED DOLOMITE LIGHT GRAY ORANGE STAINED SANDY DENSE TO VERY FINE XLLN DOLOMITE FINE TO MEDIUM GRAINED SAND IN STRINGERS & SCATTERED GRAINS IN PLACES DOLOMITE MAY BE BRECCIATED SAND DECREASES UPWARD IN THE UNIT & BECOMES ONLY SCATTERED GRAINS IN THE UPPER 18".	4'7"
YB-4	MEDIUM BEDDED SANDSTONE LIGHT GRAY MILKY FINE GRAINED QUARTZITIC SANDSTONE. BECOMES DOLIC (?) IN UPPER PART	—10"

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LEAD HILL SECTION (CONT)

YB-5	MEDIUM BEDDED DOLOMITE GRAY DENSE TO FINE XLLN DOLOMITE CONTAINS VEINLETS & VUGS OF XLLN DOLOMITE. LOWER FOOT IS SANDY & IS GRADATIONAL WITH LOWER UNIT. SCATTERED FLOATING SAND IN UPPER PART	5'—
YB-6	MEDIUM TO THICK BEDDED DOLOMITE GRAY TO LIGHT GRAY DENSE TO FINE XLLN SANDY DOLOMITE. SAND DECREASES UPWARD THROUGH THE LOWER 18" & IS NOT PRESENT ABOVE THAT LEVEL. UPPER NON-SANDY IS VERY HARD & BREAKS WITH A CONCHOIDAL FRACTURE	4'—
YB-7	THIN TO MEDIUM BEDDED DOLOMITE GRAY TO LIGHT GRAY DENSE TO FINE XLLN DOLOMITE.	3'2"
	MEDIUM BEDDED SANDSTONE	— 8"
YB-8	WHITE-GRAY FINE GRAINED SANDSTONE BASAL HALF IS WHITE & CLEAR — UPPER HALF IS BROWN & DOLIC	
YB-9	THIN TO MEDIUM BEDDED DOLOMITE GRAY TO LIGHT GRAY, SANDY DENSE TO FINE XLLN DOLOMITE. BASAL 4" SANDY — ONLY FLOATING GRAINS ABOVE THAT, BUTTONLY IN BASAL FOOT. FINE RHOMBS	4'—

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LEAD HILL SECTION (CONT)

YB-10	MEDIUM TO THICK BEDDED DOLOMITE GRAY DENSE TO FINE XLLN DOLAMITE. VERY FEW FLOATING SAND GRAINS. RHOMBIC, SOME MEDIUM TO COARSE DOLOMITE XLLS, PETROLIFEROUS UPPER 2' SILTY (?)	5'—
YB-11	MEDIUM TO THICK BEDDED DOLOMITE GRAY DENSE TO FINE XLLN DOLOMITE. 1'5" ABOVE THE BASE THERE IS A 6" BAND OF VERY SANDY DOLOMITE. UPPER 1' MAY BE A BRECCIA.	4'1"
YB-12	PLATY TO MEDIUM BEDDED GRAY TO LIGHT GRAY DENSE TO FINE XLLN DOLOMITE. SANDY IN LOWER 1'9"— VERY SANDY IN UPPER 6" OF THIS PART. ABOVE THAT THE BED ARE PLATY & HAVE NO SAND	3'2"
	COVERED INTERVAL	6'6"
YB-13	MEDIUM BEDDED DOLOMITE GRAY (WEATHERS GREENISH GRAY) FINE GRAINED OOLITOID (?) DOLOMITE. UPPER 1'7" SANDY. FROM SCATTERED SAND GRAINS TO SAND THAT BARELY FLOATS IN MATRIX	5'4"

LEAD HILL SECTION (CONT)

YB-14	MEDIUM BEDDED DOLOMITE DARK GRAY FINELY XLLN HARD DOLOMITE. LOWER 4" SLIGHTLY SANDY. PETROLIFEROUS	5'-
YB 15	MEDIUM BEDDED DOLOMITE DARK GRAY (WEATHERS LIGHT GRAY) VERY FINE TO FINE XLLN HARD DOLOMITE	4' 1"
YB-16	Very thin to thin bedded dolomite Dark gray, hard, dense to fine crystalline dolomite	2' 7"
YB-17	Thin to medium bedded sandstone White quartzitic, dolomitic (?) hard fine to medium grained sandstone. Silty in lower 6".	2' 4"
YB-18	Medium to thick bedded dolomite Dark gray medium crystalline rhombic dolomite	4' 6"
YB-19	Medium bedded sandstone Milky white fine grained sandstone Lower 2" slightly dolic; remainder clean; friable when struck.	5'-
YB-20	Medium bedded dolomite Dark gray rhombic, medium crystalline dolomite. A 4" bed of sandstone 2' from bottom	5'-

FEDERA

Lead Hill Section (Cont'd)

YB-21	Medium bedded dolomite Dark gray, rhombic, medium x'lln, dolomite	5'-
YB-22	Medium bedded dolomite Gray to dark gray, rhombic, medium x'lln dolomite	5'-
YB-23	Medium bedded dolomite Gray-brown rhombic, medium x'lln dolomite	4'3"
YB-24	Medium bedded sandstone White, fine grained sandstone - grades upward into gray slightly sandy dolomite. Lower 6" pure white sandstone	1'6"
YB-25	Medium bedded dolomite Dark gray, rhombic medium x'lln dolomite. Lighter color and sandy in upper ½ A 2" band of fine sand 3" from top	5'-
YB-26	Very thin to medium bedded dolomite Light gray sandy fine x'lln dolomite. First 1'2" very slightly sandy - scattered grains. Above this a 6" bed of white sand which grades in next 1' through a slightly sandy dolomite with pure dolomite to top of unit Upper pure dolomite oolitoid in part.	5'-

EDERA

Lead Hill Section (Cont'd)

YB-27	Medium bedded dolomite Dark gray, medium xlln dolomite	1'6"
YB-28	Medium bedded sandstone Gray to white medium grained sandstone Lower 2" are gray and dolic and upper 6" also dolic. Grades out of dolomite and back again.	1'8"
YB-29	Medium bedded dolomite Dark gray, very slightly sandy medium xlln dolomite. Sand is scattered grains in lower part and increasing to about 50% in top.	5'-
YB-30	Medium bedded sandstone & dolomite White to light gray dolic. fine grained sandstone. Some streaks and beds of pure gray dolomite - one bed (16" thick) of pure dolomite in center. Dolomite up to 30% in sand	5'5"
YB-31	Medium bedded sandstone and dolomite Gray medium xlln dolomite with floating sand in top and bottom of unit. 1' bed of clean sand in center of unit	5'-

Lead Hill Section (Cont'd)

YB-32	Medium bedded dolomite Gray, slightly sandy, medium x/ln dolomite	1'9"
YB-33	Medium bedded sandstone White fine to medium grained dolic sandstone. Grades into a sandy dolomite in upper 2" - 3"	3'6"
YB-34	Medium bedded dolomite Dark gray, rhombic, medium x/ln dolomite. Silty ? 1" bed 1'- from top sandy (from floating grains to 50% sand)	5'-
YB-35	Medium bedded dolomite Gray, rhombic, medium x/ln, dolomite 2'9" from bottom is 1" zone of sand and dolic sand	5'-
YB-36	Medium bedded dolomite Gray-brown rhombic medium x/ln dolomite.	3'8"
YB-37	Thin bedded dolomite Gray-brown fine x/ln dolomite Sandy in bottom 6", silty above.	2'3"

EDERA

Lead Hill Section (Cont'd)

YB-38 Medium bedded dolomite 4'-
Gray fine to medium xlln dolomite
basal 1" 2" is sandy, remainder without
sand.

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YB-39 Very thin to medium bedded dolomite 5'-
Light gray to gray, sandy, fine to
medium xlln dolomite. About 1' from
bottom is a 14" sandy bed (sandy dolomite
to dolomitic sand. Some dolomite is
oolitoid in appearance. Upper 2+' rhombic
dolomite with no floating sand.

YB-40 Medium bedded dolomite 4'8"
Gray medium xlln rhombic dolomite
silty zone (top) about 18" from top, 10" thick

YB-41 Very thin to medium bedded 4'10"
Gray, medium xlln dolomite.
Thin bedded wavy banded (dolomitized
cryptozoans?) Some floating sand grains
with top 3" becoming a dolomitic sand.

YB-42 Medium bedded dolomite and sand 5'2"
Gray to light medium xlln rhombic
dolomite interbedded medium grained
sand layers. Bottom to top dolomite 11"; sand 3";
dolomite 9", remainder dolomite with
floating sand and sand stringers.

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Lead Hill Section (Cont'd)

YB-43	Medium bedded dolomite Light gray, medium xlln, rhombic dolomite with some floating sand (occasional) in lower part and up to 25% sand through upper ~18".	5'-
YB-44	Medium bedded dolomite Light gray medium xlln dolomite Floating sand in whole unit; lower 1' with up to 25%	4'11"
YB-45	Thin to medium bedded dolomite Light gray sandy, fine to medium xlln dolomite. Sand grains floating in all of unit from widely scattered up to approx. 5%	5'-
YB-46	Very thin to medium bedded dolomite Gray-brown, sandy, medium xlln dolomite Two 6" very thin bedded (silty ?) 1"&8" ? 2" from base of xlln dolomite. Scattered sand in lower bed & upper 1' is very sandy (50% sand)	3'8"
YB-47	Medium to thick bedded dolomite Gray, very dolic, medium grained, medium to thick bedded sandstone. Lower "6" is limy, xlln, dolomite. 2' from base 4" bed fine xlln dolomite. Remainder dolomite sand. (about 50-50)	5'-

FEDERA

Lead Hill Section (Cont'd)

YB-48	Medium bedded sandstone & dolomite Gray-brown, fine to medium grained very dolic sandstone. 1" x lln dolomite 1" from base & at top of unit (both are medium x lln, rhombic)	5'-
YB-49	Thin to medium bedded dolomite Gray, slightly sandy, medium x lln dolomite Lower 1' has no sand; sand in rocks above to 25%. A 2'6" a sandy and silty(?) zone which weathers back (3" thick)	4'7"
YB-50	Medium bedded sandstone Gray-brown very dolic medium grained sandstone. 3" from base a 4" dolomite bed with thin banding of lt. gray and dark gray dolomite	5'-
YB-51	Medium bedded dolomite Gray, sandy, medium x lln dolomite Sand almost absent from the upper 1'-	4'5"
YB-52	Medium bedded dolomite Gray, medium x lln, rhombic dolomite - no sand or scarce (lower 2'); next 1' very sandy (50% +), upper 1' fine x lln silty(?) very thin bedded	4'-

Lead Hill section (Cont'd)

YB-53	Medium to thick bedded dolomite Gray, medium xlln, dolomite. Base to top: 1'- Dolomite; 1' Sandy dolomite; 1'- Dolomite; 1' Sandy dolomite; 1'- dolomite	5'-
YB-54	Medium bedded dolomite Gray, fine to medium xlln, sandy, dolomite 1' Sandy material at top and 1' sandy material 1' from bottom	5'-
YB-55	Medium bedded sandstone Gray, fine to medium xlln sandy dolomite sand increases upward to about 50% in upper 2/3's. Some streaks of almost pure dolomite.	5'
YB-56	Medium bedded sandstone Gray very dolic fine to medium grained sandstone. Lower 1' pure dolomite; above that 50-50 sand and dolomite	4'7"
YB-57	Medium to thick bedded sandstone Gray fine to medium grained dolic sandstone. 6" pure dolomite bed in center - bed of blocks? Sand floats in dolomite above; more sand below bed of dolomite	5'-

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Lead Hill Section (Con't)

YB-58	Medium bedded dolomite Gray-brown, very sandy fine xlln dolomite; fine to medium sands up to 50% in almost all of Unit	2'6"
YB-59	Medium bedded sandstone White, slightly limy, medium grained with angular secondary growth, sandstone. Friable.	4'9"
YB-60	Medium bedded sandstone White, slightly limy, medium grained with angular secondary growth. Friable except for upper 2"-3" which is dolic— grading into next unit?	3'11"
YB-61	Medium bedded sandstone Light gray to gray, very dolic, fine to medium grained hard sandstone.	4'6"
YB-62	Medium bedded sandstone Light gray to gray, very dolic, fine to medium grained hard sandstone. Slightly calcareous friable sands in upper 2'.	5'-

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Lead Hill Section (Cont'd)

YB-63 Medium bedded sandstone 4'11"
Gray-brown, limy, dolic, medium grained sandstone. 1'- from base an 8" bed of xlln dolomite with calcite xlls. Above this 2' limy sandstone overlain by harder dolic sandstone.

YB-64 Medium bedded dolomite
Gray to dark gray fine xlln to dense 4'9"
dolomite; basal 6" slightly sandy overlain by a dense, dark dolomite 1' thick.
A light brownish gray fine xlln dolomite with calcite xlls in silty? to top of unit.

YB-65 Medium bedded dolomite 4'10"
Light gray fine xlline, silty(?) dolomite.

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YB-66 MEDIUM BEDDED DOLOMITE 5'7"
LIGHT GRAY TO GRAY FINE XLLN DOLOMITE
2' ABOVE BASE PINKISH XLLS OF CALCITE & SPHALERITE

YB-67 MEDIUM TO THIN BEDDED DOLOMITE 1'9"
LIGHT GRAY SANDY FINE TO MEDIUM XLLN DOLOMITE. BASAL 10" HAS FLOATING SAND IN DOLOMITE WITH INCREASE FROM BASE UPWARD UPPER 5" OF UNIT PURE DOLOMITE. SOME CALCITE XLLS.

LEAD HILL SECTION (CONT)

YB-68	MEDIUM. BEDDED SANDSTONE WHITE & LIGHT BROWN-GRAY FINE TO MEDIUM ROUNDED GRAINED DOLIC SANDSTONE. UPPER 2' IS A WHITE FRIABLE SANDSTONE. ENTIRE SECTION SLIGHTLY CALCAREOUS	5' 5"
YB-69	THIN TO MEDIUM BEDDED DOLOMITE LIGHT GRAY TO GRAY BROWN SANDY FINE XLLN DOLOMITE. FLOATING SAND IN THE LOWER BEDS INCREASING UPWARD TO A 3" BED OF WHITE FRIABLE CALCAREOUS SANDSTONE @ 1'11" FROM THE BASE. THE ENTIRE UNIT IS SLIGHTLY CALCAREOUS. UPPER PART IS DOLOMITE WITH FLOATING SAND & SOME GRAY-BROWN PURE DOLOMITE STRINGERS.	5' 1"
YB-70	THIN TO MEDIUM BEDDED DOLOMITE & SANDSTONE LIGHT GRAY-BROWN & LIGHT GRAY FINE XLLN DOLOMITE & WHITE SANDSTONE. LOWER 1' IS SANDY DOLOMITE - SCATTERED SAND AT BASE & INCREASING UPWARD. 1' FROM BASE IS 6" BED OF WHITE SANDSTONE. OVER THAT IS A GRAY FINE XLLN HARD PURE DOLOMITE 1' THICK. REMAINDER OF UNIT IS SANDY DOLOMITE - SAND IS FLOATING ABOUT 50% IN AVERAGE. THE SANDY DOLOMITES ARE SLIGHTLY CALCAREOUS	5' 1"

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LEAD HILL SECTION (CONT.)

YB-71	MEDIUM BEDDED DOLOMITE DARK GRAY TO LIGHT BROWN-GRAY VERY SANDY FINE XLLN TO DENSE DOLOMITE. IN MOST OF UNIT ROUND FINE TO MEDIUM GRAINED SAND IS BARELY FLOATING. LIGHT GRAY STRINGERS OF DOLOMITE CUT THRUGH THE SANDY DOLOMITE. STRINGERS ARE VERY IRREGULAR IN PATTERN. SOME LAYERS ARE BRECCIATED IN APPEARANCE DUE TO PEBBLES (?) OF DOLOMITE OR IRREGULAR PATCHES OF DOLOMITE. THE SANDY DOLOMITE IS SLIGHTLY CALCAREOUS.	5'
YB-72	MEDIUM BEDDED DOLOMITE DARK GRAY TO GRAY-BROWN, VERY SANDY FINE XLLN TO DENSE DOLOMITE. FLOATING SAND & DOLOMITE STRINGERS AS ABOVE	4' 3"
YB-73	MEDIUM BEDDED DOLOMITE LIGHT GRAY/BROWN FINE TO MEDIUM XLLN SANDY DOLOMITE.	1' 6"
YB-74	MEDIUM BEDDED DOLOMITE LIGHT GRAY BROWN DENSE TO FINE XLLN SANDY DOLOMITE. DENSE BROWN-GRAY DOLOMITE STRINGERS IN LIGHT GRAY-BROWN VERY SANDY DOLOMITE. THE DENSE DOLOMITE HAS CALCITE VEINLETS & THERE ARE CALCITE XLLS IN THE SANDY DOLOMITE. SCATTERED STRINGERS OF CALCAREOUS WHITE SAND. BOTTOM 1' PREDOMINENTLY DENSE DOLOMITE	5' 2"

L 3 OK

LEAD HILL SECTION (CONT)

YB-75	MEDIUM BEDDED DOLOMITE BROWN-GRAY DENSE TO MEDIUM XLLN DOLOMITE LOWER 11" IS A DENSE BROWNISH GRAY DOLOMITE WITH COARSE XLLN CALCITE BLEBS & VEINLETS. REMAINDER OF UNIT IS DARKER BROWN-GRAY VERY SANDY (50%+ SAND) FINE TO MEDIUM XLLN DOLOMITE.	3'6
YB-76	MEDIUM BEDDED SANDSTONE & DOLOMITE FROM BASE UPWARD - a) 7" GRAY, HARD QUARTZITIC (?) SANDSTONE. b) 1'1" DARK BROWNISH-GRAY FINE XLLN DOLOMITE WITH FLOATING SAND IN UPPER 2". c) 10" WHITE HARD TO FRIABLE CALCAREOUS DOLIC (?) SAND.	2'6"
YB-77	MEDIUM BEDDED DOLOMITE GRAY-BROWN FINE XLLN DOLOMITE. CALCITE XLLS. UPPER 6" SANDY - 50%. FINE TO MEDIUM ROUND GRAINED SAND. CONTACT WITH LOWER UNIT DISTINCT.	1'5"
YB-78	MEDIUM BEDDED SANDSTONE GRAY-BROWN & LIGHT GRAY VERY DOLIC FINE TO MEDIUM GRAINED SANDSTONE. SLIGHTLY CALCAREOUS. INCREASE IN DOLOMITE UPWARD - UPPER 6" IS A FINEXLLN TO DENSE DOLOMITE.	3'9"

L3 OK

LEAD HILL SECTION (CONT)

YB-79	MEDIUM BEDDED SANDSTONE LIGHT GRAY TO BROWN-GRAY SLIGHTLY CALCAREOUS VERY DOLIC FINE TO MEDIUM GRAINED SANDSTONE. DOLOMITE INCREASES UPWARD WITH THE UPPER 7" BEING XLLN DOLOMITE WITHOUT SAND. THE TOP 2" OF THE DOLOMITE IS VERY CALCAREOUS.	3' 9"
YB-80	MEDIUM BEDDED SANDSTONE GRAY-BROWN DOLIC, SLIGHTLY CALCAREOUS FINE TO MEDIUM GRAINED SANDSTONE. TOP 6" WHITE (WEATHERS BROWN-BLACK) FRIABLE SANDSTONE. (PROBABLY WEATHERED)	2' 4"
YB-81	MEDIUM BEDDED SANDSTONE & DOLOMITE LIGHT GRN-BROWN VERY DOLIC SANDSTONE & GRAY DENSE DOLOMITE. DOLOMITE & DOLOMITIC SANN IRREGULARLY BEDDED IN THE LOWER HALF OF UNIT. THIS LOWER DOLOMITE IS SLIGHTLY SANDY. IN THE UPPER HALF THE DOLOMITE BANDS IN THE DOLOMITIC SANDSTONE ARE IRREGULAR & WAVY - NO SAND IN THESE BANDS. ALL OF THE DOLOMITIC SAND STONE IS SLIGHTLY CALCAREOUS.	5' 9"

L3 OK

LEAD HILL SECTION (CONT)

YB-82 ✓	THIN TO MEDIUM BEDDED SANDSTONE LIGHT-GRAY QUARTZITIC SANDSTONE. SLIGHTLY CALCAREOUS FINE TO MEDIUM GRAINED SANDSTONE. HARD (SAND GRAINS BREAK WHEN THE ROCK IS CRACKED.	1'9"
YB-83 ✓	MEDIUM BEDDED LIMESTONE. GRAY DENSE TO FINE XLLN DOLIC (?) LIMESTONE. LOWER 3" SANDY. UPPER 1" SLIGHTLY SANDY. THIS LIMESTONE RAPIDLY THINS & PINCHES OUT 50 YARDS TO THE WEST	1'5"
YB-84 X	THICK BEDDED SANDSTONE VERY LIGHT GRAY FINE TO MEDIUM GRAINED CALCAREOUS FRIABLE SANDSTONE, WELL CEMENTED WHEN FRESH	3'3"
YB-85	MEDIUM BEDDED LIMESTONE LIGHT GRAY FINE TO MEDIUM XLLN LIMESTONE. Ostracoda (YB-85 P)	-11"
YB-86 ✓	Medium bedded sand stone White, fine to medium grained, slightly limey sandstone. Grades into overlying limestone	2'9"

L 3 OK

Lead Hill Section (Cont'd)

YB-87	Medium bedded limestone Gray, fine to medium xlln, slightly oolitic, ostracodal limestone with few floating sand grains (YB-87P) Very oolitic in places.	2'-
✓ YB-88	Thin bedded sandstone White medium grained limy sandstone	2'3"
YB-89	Medium bedded limestone Light gray, very oolitic, slightly sandy and silty in upper 2", ostracodal limestone (YB-89P)	2'5"
YB-90	Medium bedded limestone Light gray, oolitic, fine xlln limestone Trace of sand in badly weathered 1/4" at top. Ostracodal (YB-90P) Some clastic zones of limestone pebbles in ls. matrix. Sand present in these clastic zones	4'-
YB-91	Medium bedded limestone Light gray, oolitic fine xlln limestone Clastic and sand in very small quantities Ostracodal (YB-91P)	3'-

Note YB-90 & YB-91 taken from solid limestone block 50 yards west of outcrop which seemed to fill a missing interval which fitted in limestone sequence with missing intervals

A 3. OK

Lead Hill Section (Cont'd)

YB-92	Medium to thick bedded limestone Gray oolitic & possibly clastic, fine xlln ostracodal limestone (YB-92P)	3'4"
YB-93	Medium bedded limestone Gray oolitic, medium xlln limestone. Very Ostracodal (YB-93P) Badly weathered, green oxidizing material along weathered zones; silty appearance	2'1"
YB-94	Medium bedded Sandstone Yellow-white, medium grained sandstone. Limy? Interval buried due to bad weathering	-8"
YB-95	Medium bedded limestone Light bluish gray, very fine xlln to dense limestone. Very slightly oolitic and probably clastic. Seems to be the part of the Jasper that looked like Platin?	2'-
YB-96	Thin bedded limestone Light gray fine xlln is & fine to medium grained sand. Sand to lime ratio about 50-50. Ostracodal (YB-96P) 10% sand in top 2"; harder	1'8"

A 3. OK

Lead Hill Section (Cont'd)

YB-100	Medium bedded limestone Gray oolitic and oolitoid, clastic (?) slightly sandy, fine to medium grained limestone. Sand as floating grains in lower 2"; upper 6" nearly free of sand. Grades downward into lower unit	1'3"
YB-101	Medium bedded limestone Gray, oolitic to dense limestone. Weathers brilliant bluish-green, especially in lower 6". Upper half has abundant pyrite weathered to limonite. This may be The Platin like material in highway section Upper 3" is folded and banded with clastic pebbles and some sand. Upper 3" is ostracodal (YB-101 P)	1'-
YB-102	Medium bedded sandstone White, weathers greenish, limy, fine grain limestone. Sand practically floats in cement.	1'3"
YB-103	Platy to thin bedded limestone Gray , crumbly, badly weathered Clastic ? limestone Sandy in lower 2" Thin & platy with dense limestone layers. Silty partings.	1'3"

A 3. OR

YB-104	Medium bedded limestone Gray fine to medium xlln oolitic limestone Contains numerous gastropods (YB-104 P-2 bags)	2'2"
—	Covered interval - probably thin shaly ls	-5"
YB-105	Medium bedded limestone Gray fine xlln, extremely oolitic limestone. Blue-green shaly weathering Sandy & clastic in upper 2" and ostracodal (YB-105 P)	-10"
YB-106	Medium bedded limestone Gray, oolitic, fine xlln limestone. Finely figured with lines which might be the edges of either brach. or ostracod valves or flattened oolites. Contains gastropods and valve fragments. (YB-106 P) Some flat greenish gray dense limestone pebbles	2'4"
—	Covered interval Trenching does not reach bed rock - Probably limes and sands	3'6"

A 3. OK

Lead Hill Section (Cont'd)

YB-107	Medium bedded limestone Light gray, extremely sandy, fine xlln, limestone. Bottom 2" is limy sandstone with decrease in sand upward. Less than 25% sand at 5" from top. A 1" bed of limy white sandstone. 4" bed of dense fine xlln oolitic limestone with floating sand at top. - Top unit has very little floating sand.	1'7"
YB-108	Medium bedded sandstone White, limy fine to medium grained sandstone. Bottom inch has either limestone pebbles, ostracods, or both.	-9"
YB-109	Thin to medium bedded limestone Gray fine to medium xlln, oolitic limestone. Streaks which are shaley partings giving very thin to platy bedding. Some zones of Clastic lime	3'2"
YB-110	Medium bedded sandstone and limestone Lower -4" light gray to white, very limy medium grained sandstone. Lime over 50%. Top - 9" gray, oolitic very slightly sandy fine xlln to dense limestone. Contact with St Peter is clean cut with Everton (Jasper) limes highest we could find. Contact is undulating surface. Everton beds eroded off prior to St. Peter deposition.	1'1"

A 3. OK

Lead Hill Section (Concl'd)

YB-111	Medium bedded sandstone White to gray, medium grained calcareous sandstone. Gray coloring due to weathering on surface. Slightly limy and some cross bedding(?). Generally friable when struck	3'4"
YB-112	Medium to thick bedded sandstone White with gray streaks composed of black speckled white sand grains. Slightly limy; medium grained.	5'-
YB-113	Medium to thick bedded sandstone White, yellowish, and gray, medium grained sand. Has spotted, and speckled. Slightly limy and very friable	5'7"
—	Covered interval between top of exposed St Peter and lowest exposed Platin. Contact not definate	21'-

Fini 1:20 PM.
12-13-51

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United States Department of the Interior—GEOLOGICAL SURVEY

SURVEY OF THE 234 FEDERAL BUILDING
TULSA 3, OKLAHOMA
In charge.

No. HE-39P Name { Field:
Determined:

LOCALITY: SW ¼ Sec 26
T16N R20W
Newton Co, Ark

Collector:	Date: 12-4-51 Notebook: E-1 Page:	Memoranda:

GPO 16—20967