Ex. Expense incorporated bills

cat. – Catoctin Survey Bills.

(others primarily calls for Edgewood arsenal)

Check 21. area of "depressed area" with retaining wall, grist mill

✓ 17 Saw mill

Check 22. Area around Charles Moser House

Near Indian Camp ground

Interviewee A – Tressalts Son.

Interviewee B – Nemer

Interviewee C – Sweeney

Interviewee D – Miller

Interviewee E – Mrs. Clem Gardner,

Interviewee F – Mr. "

Check 23. Race way – one lawless dam – in Park area,

East of US 15 Sta.

Interviewee G – Tressell.

Interviewee H – Anders

Interviewee I – Wollard.

J – Young gardener; gardner's Son

(CRES

Winchester St. Change to 301-671-2586

(3) (1)

July 15 — telephone calls. off: Arbeadeen Proving Ground

2:35 11:15 to George Scott (absent til Monday) 301-278-5245 (6%) Personnel. talked with Jean Stewart, Staffing Asst. $5.17 + tax 14 minutes.

Subject: answers to questions re TDY expenses "Hr. Wards" off to O.K. money for expenses will come from his office.

11:35. 717-555-1212 - hanticoke information - Free

717-735-~~7905~~ 0124 - hanticoke Ind. direct. corp - $2.14 - 4 minutes.

717-735-6990 " Chamber of Commerce $1.85 + tax 2 min

3:30 Said to call 735-6500, believes it's on middle road off

on road to Honey Pot - at Bottom of the Honey Pot Hill. River behind

3:30 Honey Pot, you won't be concerned with that.

I talked with Sec. & a Mr. — who kindly gave directions

3:35 12:30. New Jersey Zinc Co. Palmerton, PA.

215-555-1212 —

215-826-2111, Palmerton only adding $1.85 rec 1 min

telephone operator we are E & W of Hazard & South of Aquaticola - all along South of Palmerton.

July 16, 1976 Dr. Barry Kent, State Archaeologist, William

9:30 Penn. Museum Harrisburgh, PA.

717-555-1212 - info, Ca. 3.50 for 5 minutes

0-717-787-4~~978~~ 80. Yes He will look up. I am 2.78 3 minutes. I missed call

to call Back Monday 9:30. 25 2 5 6 3.34 Back.

I gave him coordinates on the 3 sites (4)

(1) Hanticoke, (2) Palmerton (3) Conewago Industrial Park.

735-6500

new Post office Cpt.

on road -

about 1/4 mile - to Hunting Pd.

before on.

Cross Nearby

C 1 - Amerindian, Sta. 536 E R/W

2 - "

3 - Early Iron working Sta. 539

4 - Bath house Sta. 544

5 - Amerindian (Renner) Sta. 555

6 - Burial ground Sta. 558, "Slave cemetery)

7 - Log cabin Foundation (Cathy House) Sta. 568

8 - Exploratory Shaft. (Silver mine) Sta 555

9 - L.S. Quarry Sta. 556 + 50

10 - Renner Cemetery c. Sta. ~~465~~ 453

11 - Mill Race pond Sta 579

12 - charcoal pond ore pit Sta. 573 - 576

12A - Worker's Houses on Charcoal road.

13 - Big ore Bank pond. Sta. 563

14 - Paint Shop. Sta. 563

15 - ore washer pond (Little ore Bank) Sta. 559

16 - Kimbal ore Bank S

Pond with [illegible] 17 - Race way at Renner S - [illegible] place - also Suffered Furnace

18 - Auburn ore mine Sta. 544 W

19 - L.S. Quarry Ca. Sta. 455

20 - Collection Hollow Road - area

C/A - Area just South of Junction ↑ wooded - Road area.

(CRESTAL Museum). 301-671-2586 time + charge.
(3)

2:35 0-405-325-4705 Dr. Charles Wallace. Okla. archae.
Survey. Okla conservation Commission.
Larry NEAL. Acting State Archaeologist. cost? about 5
for Wycoff. minutes.
call back in 1/2 Hour - 3:30.

+23 N., R15E Sect. 34, NW 1/4 - location of Power Plant
3:30 MR. IVES. 0-314-882-8364.
Sites locations - designations. Busy
references?
3:30 LARRY NEAL, 0-405-325-4705
sites location - designation
references
3:35 7 Sites. - Section of area
with - most area - Not been survey.
2 - early to middle wood
late wood
SC1-6 Mississippian Sites
Sc 56. Close to Arkansas.
3 "burial" Sites.
Amateurs MO.
David J. Ives.
Archaeologist - Division of State Archaeologist
Area. archae.
University of Mo.
by Powers archae. Society.
no cost archaeology. $3.07 + tax
Data bank. 6 minutes

(5) 301-621-2586 time & charges.

July 19. Edgewood Arsenal.

9:18 Dr. Barry Kent, 0-717-787-4980: 2.75 & Tax - 1 minute

call him at 11. Yes. this call made at

Edgewood Arsenal. at about 11:30 p.m.

July 20. Site 5, E. Bank Charenton Drainage Canal between Baldwin &

Franklin, St. Mary Parish. Franklin Quad.

504-555-1212.

LA. State Archaeologist. - La. Archae Survey & Antiquity Commission.

0-504-389-6751. Allen Toth, Asst. $3.66 Plus tax

Dr. William Haig. 4 minute

another (La. Ant. Hist. & Preservation agency.

Historical Preservation)

Toth

Dorothy Gibbens 389-5086

$5.39 Plus 12 minute

9:15

July 21 0-301-278-5245 George Scott. will call back.

10 am. St. Paul. Minn. - State Archaeologist 612-555-1212

0-612-296-6013 - general information State officers.

Ft. Snelling, Allen R. Woolworth, Hist. society archaeologist

726-1630

Dr. Elden Johnson - U. of Minnesota, State Archaeology

612-373-2601 office at 4.

612-789-4966 Home. - Busy, Busy

1025 Frankfort, Ky. 502-555-1212 info.

0-502-564-2500 State Archaeologist.

3130 - information

Betty McGraw - Hist. Frankfort -

564-7250.

Dr. Barley Clay - U. of Ky. Hist. of A.

606-258-2710

operator 7

987-1692 Home. 258-5735 off.

will call about 1:30 pm.

301-671-2586 time + charges.

120 pm | Dr. Clay Calls back as indicated at 10:25 am below
606-258-5735

235 - | call from Scott Ward at 3 pm. call about 10.

3 pm | Pat Coats 0-615-741-1588
copy of [illegible] [illegible] [illegible] [illegible]
[illegible] - dredging material.
Dr. Gerald Smith, or Asst. Chucalissa
901-785-3160 Archae Park.
Archaeological Aid.
Div. of Archae
if necessary. [illegible] [illegible] of conservation
time + charges
mailed.

yes call check with

320 | George Scott, personnel called
answers to questions on big yellow [illegible]
[illegible] Scott Wards Show - check with
[illegible] channel orders.

8:55 pm | Dr. Elkin Johnson, [illegible]. called [illegible] a
[illegible] [illegible] [illegible] [illegible] [illegible]. no change
recorded. Low risk.

July 22 | Mr. ED LOFFSTROM. NO EIS
930+ | 0-612-~~726-1171~~ For 10 o'clock 726-1630 yes
~~726-1171~~

call [illegible] at 3 o'clock 726-1630

call friday. not → Charles Skries
aby Ed. 10 o'clock Lynn Van Buckle
(archaeology) Mrs. Regan
call Friday 10 o'clock. $3.15 plus.

940 am | 0-614-466-5348 Dr. Martha Otto call 4 pm
$5.36 + tax, [illegible] 3.05, 2 minute
today.

Ohio

MINN, 301-671-2586 time & charge, (6)

6:40 Dr. ELDON Johnson, 0-612-373-2601 - office
0-612-789-4966 Home,

will call tonight. when arrives in from Field.

10:55 am Scott Ward, 0-301-671-2586 — He will call this afternoon at 2 pm.

11 am NASHVILLE, TENN, 615-555-1212 615
0-615-741-3011
615-741-2065 chat,
Knoxville 0-713-845-524
5242

615-974-4408
Dr. McCullough
Nashville 615 741-1588
State Archaeologist Dr. Joseph BENTHALL
~~Betty Pope~~

Call at 3 pm. today → Pat COATS
3.49 plus tax - 4 minutes

1:45 pm Ohio, Columbus 614-555-1212
0-614-422-4149 Hist. of A.
Ohio Hist. Soc. — 466-5348 Cstate archaeologist
Shell will call Friday. ← Hist. of Arch. Ohio Hist. Dr. Martha OTTO
Historic Preservation Office E. Ohio. Hist. Soc. 9.
- Ohio Hist. Society Dr. Dana Ormerod
0-216-385-4272
12c $5.03 - 8 minutes

Monday Call — 9-10
Probably Saturday
about 10 minutes.

Call Miss Bollard on Monday

301-671-2586

330 pm | DR. GERALD P. SMITH 901-785-3160

anthrop. memphis state U.

454-2618

Call Miss Monday on Campus

8
8

July 26 | Tyler Bastian — artifacts? Call

Call next Monday for return photos SEIB

GEORGE SCOTT 7-5245 on MR. "

64 hours next week

32

32

MR. SEIB on Stipend.

Aug 2

Call Finance office acting 12-18 — 7 days

19-24 | 19-Aug 1

time clerk. — 19-Aug 1 — 12 days

Aug 2 — Aug 15. | Aug 2, 19

Reimbursement — Cost of Travel —

through Travel orders A.G. of

arrival — Renewal Clerk —

JDY. Clerk

what XO —

overtime

Call Tomorrow Tuesday

Bonder

ED. BENDER. 301-671-4284 } Call Mrs.

2586

3564.

Travel — mileage — Rendition OK

Were there 10 hours

301-671-2586 DR. SCOTT WARD

July 23 Fri. Smithsonian Institution, 301-671-2586

More specific locations?

We CHECK - ? time. M-S. 12-17 19-24 — when return in Mr. Scott or SEIB.

Monday

Barbett

Morgan

Pales

Wood

Nantucket — College in Wilkes Barre — Pa. Archaeo. Archaeo. Coach Kings

Kaneta

Kings Junction.

etc.

there today Lee

Michigan, Saguenay Bay Coah. get this later

I am to join Scott on Monday to pin point locations.

205 MINN. ED LOFFSTROM

0-612-726-1630

Call back at 3 O'clock —

didn't get time + charges

1:50 pm Call DR. GERALD SMITH, CHUCALISSA Archaeological Park, Fuller State Park, S. of Memphis Tenn.

901-785-3160

Call in 1½ Hour at 3:30

3 Pm ED LOFFSTROM, staff archaeo State Univ.

612-726-1630 Res. office

Minn. Hist. Soc St. Paul, Mass.

Ft. Snelling Road

Bed 22.

Site 10 Ft. Snelling St Paul 111

Cd

Mrs S. Little on Mr Mrs.

301-671-2586 time + charge.

310 pm | Reston, Va. Map Service - Sales 0-703-860-6167
Information requested - not open Saturdays
2 weeks on map sent out - for arlington
distribution. 557-2751 Block
1200 S Eads St. 1 Block W Route 1
8 - 4 15th & Army Navy
$1.25 drive,

945 am | called Prof. Delaney - not there will call
here when he gets in.

Aug 30 | call Professor Leslie Delaney 0-717-824-9931
840 | He has had request for call back
for 3 days - & hasn't called apparently.
Forgot it.
" call requested by Thomas DOMBROSKI
Nantucket Ind. Corp." Scott - 23 July 73

10 | Secretary Myrtle Shelty 0-301-256-4895
re. proj. arrangements - not in

Aug 2, | Dr. DANA ORMEROD 0-216-385-4272
" No. sites listed for either women or Mingo Junction

C 11:30 am | SANDY Sefarmine.
Allegheny - National Register -
Current -

Ga. 10 pm | Tyler Bastian - Balled re road at Smith Branch
Community Cumberland - Mr. Further research
needed (time distinct allow) -
He: Not it in hands of Historic Preservation
People for Comment.
∴ needed to define Roads.

Bender, Ballard, Murphy, Ohio, Jam, [illegible] [illegible]

930 301-671-2586 [illegible] (1) (2) [illegible]

July 28 ED. BUNDER — 301-671-4284 — Busy will call Back

10:15 DR. DANA ORMEROD 0-216-385-4272

Ohio Historical Society? Re Dock Long St. MONDAY E. Lovenguard, Ohio

CALL

MONDAY 0-216-385-3747 His Home.

10:25 DR. GERALD SMITH, CHUCALISSA archae. Rab.

(Rat Coats) 0-901-785-3160 + State of Memphis [illegible]

late Mississippian — Mich. [illegible] willed [illegible]

work done in but area earlier — bottom on

Mississippian Hamlets — in area of site but

He "is the plan" "all been destroyed."

Swelly?" — dredging

Blocks top, road leading in 9.61 + [illegible] 7 mile

No affected pilling ocean

∴ Suggest [illegible] Gen'l Survey to check this

10:45 PROF. DELANEY KINGS COLLEGE, WILKES BARRE

0-717-824-9931 not in left call to return call

Try for Home number. later.

12:20 Ed Bender called. I can be paid 39 Hours a week and Rhyllis Schultz 301-256-4895 will submit 1st 39 Hours on Monday next to be paid in 2 weeks. Hours submitted in this manner til all paid up. She doesn't know what to do about travel + other expenses — still working on this.

245 Prof. Delaney. Leslie Delaney. N. Main St

9 O'clock No home phone. Wilkes Barre

not here, no Home phone, will probably be there at 9 o'clock tomorrow. Private phone No

Aug 4 301-671-2586

920a Chris Peoples. Mus. of Anthrop. U. of Michigan
0-313-764-0481

950 Dr. Chris Peoples, met your Ghost at U. of Chicago
identifies 2 sites here near Chippewa Reservation
See map for details.
I called Peoples — he got data &
called back in 10 minutes.

2 calls
Dist Engineer, State Hwy

Change to (Ms. Margaret Ballard D. of Transported) 301-383-(
301-5555-1212 Cunningham Falls State Park Thurm.

Aug. 19, 11 am. "(C.A.D. 50-51) During Fall of 1969 Charles Sandy identified
preliminary expansion of roads & slides between North & South
Root pits — removed sufficient amount of water in order
to determine the original ground level — 12' of silt.
— one coal & series of wooden ties with Hand made spikes.
also to South a portion of a buried metal & covered
mechanism interpreted as a pulley eye & Bore
used in hauling mining materials from the bottom of a
deep Quarry." ALSO LAB SPACE.
0-301-271-2495 Trees & Sandstone
Sandy will call Back. One coal pit.

Nearly Kelly

Have coal & metal parts

267-0100
1130 301-269-0164. Ext. 5656 Robert Bushnell — not in
Nat. Linkage Corp — Bore map. 1" = 300'
Borings? water
2:30 One pit — Pump — Sludge pump — Come in
from Route 15. Slides from road area.
Tyler Barber — Rich up Hwy

State Highway Boring Machine. S.H.D.

Change to: 301-383-6899 Ms. Bullard.

EDWARD F. HEITE
21 S. MAIN ST. 697-1789
CAMDEN, DEL.
302-555-1212

0-302-697-1789 — no answer.
0-302-678-5314 conference
(Ed.) papers 71-72
Stanley Smith — 74 — issue of Conf. on Hist.
Site Archaeo papers — approach to vice fuzzy
excavation — traditional approach
1 stack → wind erosion & stop —
more than just preserving equip.
"thinking the whole site".
Early 70's — Steve Israel — report from private firm
Bob Vogel — reviewed his paper,
Helicopter
Michael Robins — dissertation,
Principia Co. Guide to vice
works in Maryland.

150

fieldwork for Glenn

→ Fredericksville, Va. casting floor —
1732 — fence. 1 ambulation site
Archaeo. Soc. of Va. 1970-71

exhibit for mining ore
new grapevine

written [illegible]

Bodd Wilson, Batsto, N.J. Hammonton

little [illegible] of early [illegible] of mining ore —

most knowledge

1800's to force removed
State park — removed [illegible]

Change to 301-671-2583 Edgewood arsenal. Ecological Research Center.

Signal Affiliation

Not made in multiple affiliated signal affiliation. Paid Payroll audit:

O'Hara. Dr. Scott Ward.

Bob Ellett

Excavation

6217 NOC Md. new rate.

not obtained Grant.

new $5.62 / 100 of Payroll.

mid attitude confirmation rating Bureau

Oct 15. Dr. William Haig. a Allen Totit La. archaeol. Survey

0-504-389-6751

Buhlen Quad.

6" W; 6" N. 12 acre.

across marsh from Sam Houston State Park

La. archaeol. Sec.

Joe Frank State Vr. relatif. 436-4376

Calcasieu R. — Ebelton S. Houston.

16 CU 142 on Mine.

Western Bank of Indian Bayou where

Jones Calcasieu — R.

Little road through site.

3 without

(2) Shell middle with bottom

NE 1/4 of

NE 1/4 of

Sect 11.

Indian Bayou Ferry — where

ferry crossing. N side of C.

R. Just W of Ferry Crossing.

Houston River — 3 sites — not given

site numbers.

Just

Twp. 9S. R. 9W.

Mr. Prescott State Museum

Grant Cur.

(1) N Bank. on drawing S. 9 & S. 10

(2) Shell middle with bottom

Just S. South side of Houston Rm. SW 1/4 of Sec 9

1/2 W. Center section 9 — N. Bank

SE 1/4 of SW 1/4 Houston River (2) Lithic flake &

381-5758 - Bob Elder

12 Cinge Rhinehart 381-5855 call after 12145

1:30 Heritage

Bob Elder - Geologist.

→ Glazer, John D. Geology & mineral resources of S. Maryland

Maryland Geological Survey No. 19 report of investigations.

Sediment

2 Pm Works mas Corporation Insurance, Private Insurance

755-8660 Dept of Labor

$3.75 per $1000

$225 for $6000

124 - 3648

Certificate of Sub-contractors needed

State Insurance Council

Chairman Corporation

~~523-750~~

254-3472

254-3467

Bob Carter Corporation

Mid Atlantic Corporation

Rating Bureau

621-1376

Maryland

Mr. ELLETT.

Mr. Hundred

Arthur - Payroll

Johnny Tyler

840 — 200 $100

5 1000

Independent Contractors

Hire any one built in that time — Corporation in case of injury

6 week

30

Sub-contractor

Hon. ~~Arts~~ Boole

Workmen Corp. Industries

Travelers

Maryland Casualty Co.

Hartford Insurance Co.

Liberty Mutual.

383-2106

Bob Hoe

Cor. Clark

Other Coverages

Automobile

General

Personal

Workmen Corporation

Ind. State accident Fund

305 W Preston Baltimore

Maryland Workmen Corporation

Larry MARINELLI. — Bob Delmar Kraus.

10. UMHOFFER — Approve Project Paper — 1 week later. Nov. 27.
USAID.

Dr. Harry Stopt, 0-318-477-2520
Ext. 216 or 289

Box 699 Change to 301-671-2586 Call at 12

MONEESE
State U.
Lake Charles
70601.

Marshland S.g Lake Charles. —

N. older wetland — topography.

Airport Surveys.

Ordinary Hunter R. Good bit of
Pleistocene forward wetland — old area,
marshland first Pleistocene.
Lowland flat pieces —
Fairly remains developed on
extinct Boron. —
Lowland plains, large
Scarpers

Quaternary
Ammonite at
river edge
3' depth
Ridge area

Very Hot area

Some
Exposed

3 & 3½
Kmile

(2) Dave Gore. — State U at Ruston.
Contact

Ceramics.

GAGLIANO
Oaton Range.
Sherwood Woody

Co.
Coastal
working in
Dolomite
Stuff.
Area
17.000 B.C.

relationship to lower la. —
Texas with Texas — Frank Hall.
mixing areas
four cts on
Lake

Texas 850 A.D.

268-5650
Dr. Malcolm

Closest Source
Aviation Society in Texas
Houston —

Same complex —
Cal. R. — best pub.
Loaded — within flood plain
2-3 on victim
Robert Newman — Survey. Corp. of Engineers
no good publication — Arkansas River.
a lot of reports —
no overall
Nacionality Hilly country.
Sites within flood plain —
Swampy,
Shell middens — like and trouble
ending in River.

PAUL ROBINSON: 301-671-2586 reverse charges.
CANDO. Location of Site? Powerplant?
Fill? — fuel or SO, into nearby (limited area)
ON HILLS? Can't tell low topography
NE of Fenga na within flood gate.

477-2520
EH 216
289

CHARGE to

ALLEN TOTH 0-504-389-6751
16 CU 142 What kind of Site?
re check locations of Sites?
Robert Newman?

Harry Stopt
MC near state
ie. — take chance

Bouvarat area.
↓
Charles Bollich.

resembles — different rel. to Caddoan area
Strong rel. to
coastal
Gulf area.

Oct. 19. Jess W. Malcolm, Environmental Systems.
301-268-5650

Home Ann: 301-268-8689

Would be able to [illegible] proposal at this time.

Kessler, Route 51. Checking on Rendeiro etc. expenses.

Nov. 4. Thurs. Call → Foreign Currency Program, Smithsonian Institution. 628-4422

— Blank Stein,

— AAA.

Bona — Cultural affairs officers.

Approvals —

— Vanterman, Per. diem, $80,000 [illegible]

— American Institution.

— Private [illegible].

— no overhead. — so university.

— Bond for [illegible] — Sale of [illegible] products.

Francis Berkowitz, [illegible]

Ron. 301-268-8689.

✓ take off new Schedule for Oct 27 — next Wed. a Wed.

— Unit Malcolm Tomorrow — every?

$75 — yes

150 mo (1/5th time)

Preliminary

Interim

Salvage?

4.5.50 — 15 days

Nov 5 — 5 days

23 days @ $105 $2990

+ $525 extras

($25 a day)

Interim 1 positive for 3 units, — 23 units

8 positives —

16 days

105
16
630
105
1680 +
400
$2080

25
16
150
25
400

Salvage — ? 4 Sites.

with SHA assistance — Bulldozers

+ 4 laborers

Calls

Ex 8

5 Pm. Cora Christensen 612-333-523, call 9:15.
9:30 Monday

9 Apr 77. Saturday 1040 U.S. Indiv. Income tax return –
Schedule B – Dividend & interest income –
Schedule C. (Form 1040) Profit or loss from Business
or Profession. (Sole Proprietorship)
Schedule SE. Computation of Social Security Self-employed tax

9 Am 488-3100 – Internal Income assistance information – Closed

Apr. 11, 1927 1. Minnesota Expense Inc. 1-612-333-523, Ms. Cora Christensen.
Expenses not included Per diem; Expenses; ~~[illegible]~~ Services.
Cross Fed. State, Soc. Sec. Form. not W2 but 1099.
$2465
nothing with held

1099 does have to be included. Miss Christensen will send this out today.

2. 1100 am. 301-269-3402 Computer. duplicate W2, Computer, Anapolis
Mrs. Brady will try to get it out today.
Thursday Sure
W2 – can't give info over phone.

11:49. MAIL. Medical Service Account Officer
(check) USAF Disputed Claim / SGM
APO San Francisco 96432
Check Citizen Bank & Trust Co. $2850.00
not Registered Air Mail.

12 APR 77 Telephone call
1. Potomac Temporaries, B. Crawford 525-2000 will issue a duplicate check 615710, 4/13/76, $25.99 Pressed lot. W2 form has been sent here. (see Rom)
2. Telephone Call. W2 from Tele-Sec. Rick up noon Wednesday
13 Apr. 77. Mr. Crops. ~~451-5651~~ 223-4900. call before hand.

Experience in —
Tenf Sec, a
4-9 wks. —

1

Friday

8 Apr. 77 — Bob Delaman (202) - 659 - 3864 Greetings

9 30 W2 - duplicate - Bob - "no problem" call & talk to for data

Immediate. Corps Christmas. 612 - 333 - 5231 Minneapolis.

12 Nm Mrs. Bragg, Surgeon General 693 - 5738 will

call back re. Clark field Bill

1 Pm. 488 - 3100 Leave tax.

W2 - duplicate

Employee name & address Substitute W2 —

Tax Revenue Information.

Mrs. Gregor — no itemized statements.

must increase co. Christ ask for it.

Claim form — Blue Cross Blue Shield

Letter - Blue Cross - Blue Shield —

Overseas Claims — claim form.

after 4 months you become responsible.

693 - 5826. —

1 30. Claim Service dept. 484 - 9000 Non participating

Mailing Hospital — do not consider.

Claim form — 859 Ans - Livingwood.

1.5 Mrs. Gregor — write them a letter & tell where [illegible] to

do -

Fill in claim form & send to Blue Cross - Blue Shield.

2 30 223 - 4900 — Tele-Sec.

	Gross	Soc. Sec.	Fed	State
April - May	653.15	38.21	37.93	19.55.

Mrs. CROPS Call on Monday to [illegible].

✓✓✓ Community college — 454 - 5651 Faculty.

State of Md comptroller office 301 - 269 - 3402

Annapolis call, Monday.

[illegible] 4 m. called.

Calls

Ex 8

5 Pm. Cora Christensen 612-333-5231 call 9:15-9:30 Monday

9 Apr 77. Saturday 1040 U.S. Indiv. Income tax return -

Schedule B. Dividend & interest income -

Schedule C. (Form 1040). Profit or loss from Business or Profession. (Sole Proprietorship)

Schedule SE. Computation of Social Security Self-employed tax

9 Am 488-3100 - Internal Income assistance information - closed.

Apr. 11, 1927 1. Minnesota Expense Inc. 1-612-333-5231 Mrs. Cora Christensen.

Expenses not included Per diem; Expenses; ~~[illegible]~~ Services.

Cross Fed. State. Soc. Sec. Form. not W2 but 1099.

$2465 nothing with held

1099 does have to be included. Miss Christensen will send this out today.

2. 1100 am. 301-269-3402 Computer. duplicate W2, Computer, analysis

Mrs. Brady will try to get it out today.

Thursday Sun

W2 - can't give info over phone.

11:49. MAIL. Medical Service Account officer

(check) USAF Dispatch Clerk / SGM

APO San Francisco 96432

Check Citizen Bank & Trust Co. $2850.00

not registered Air Mail.

12 APR 77 Telephone call 1. Potomac Temporaries, B. Crawford 525-2000 will issue a duplicate check 615710, 4/13/76, $25.99 Presumed lost. W2 form has been sent here. (See Room)

2. Telephone Call. W2 from Tele-Sec. Pick up noon Wednesday 13 Apr. 77. Mrs. Crops. ~~451-5651~~ 223-4900. call before hand.

Ron & my discussion

3. catoction - signed.

① Cumberland —

② catoction —

Swanson ③ Harris for 2-4. call John Upton. Use flexibility. Cost proposal.

④ Electric Co - [illegible] submitted.

(~~Willy Harris out~~)

Engineer from sent in. for dept.

Small business - partnership - official Co.

☆ Form on Small business to be filled out for [illegible] of [illegible].

13 apr. 77 Wednesday

1. 393-3111 Small business Bureau. 653-6600

2. Mrs. Cups tele-see 42 ready at 12 noon, 653-6979

KH 1030 15th st NW room 250 work dept. O.K. 653-6958

drop by for data "registration partnership in Md."

3 TRANSPORTATION tour & return 60 + 40 = $1.00

4. Small Business discussion with Mr. DIENER and a retired lawyer. Notes on fold-overs. i.e. incorporate & pay two more taxes, partnership limited (to assets of partnership activity) & general same as proprietorship. Get Legal Assistance Bureau, Washington U, Washington D.C. to help. Looks like I am happy the way it is now.

14 apr. 77

1. 488-3100 more tax for SE. checked.

2. Receipt ① Stapler 2.49 & staples 49. Peoples E over

15 apr 77 Friday

1. Completed and mailed off tax to internal revenue and annapolis.

2. MAIL receipts ② comptroller of treasury, Md. .98

Certified mail ③ internal revenue $1.09

19 ~~18~~ apr 77 Tuesday

1. Turned in final papers to Experience, Inc. for 20 days Small Scale irrigation USAID/philippines and 4 papers on Social analysis for Bob Delamarre.

$2.97
2)595
4
19

4

19 apr. 77 — 2. $ 60¢ + 40¢ In and out of Washington,

20 apr 77 Wednesday — 1. Conference with D.O.T. project planning at room 404 300 W. Preston Baltimore, O.K. on plans of Catoctin Furnace Survey, to proceed next Monday — arrangements made for drill + excavating services, Ms. Ballard organized with Project Manager.

2. Went to Baltimore on Trailways and return on Greyhound Bus (4) $3.65 (Greyhound), $2.97 (round trip on Trailway). 1/2 of ticket still to be used.

21 apr. 77 Thursday — 1. talked with son about Catoctin job. He will be ready to work apr. 5. — 2 days a week plus. to take over on week ends.

2. Called Prince Georges Co Courthouse and found out that consulting is a service and not a business requiring a licence (952-3330). to register a partnership you register the trade name as "Orr and Son" and pay $12 in Room 106 on the 1st floor. This is all that is required to establish a partnership. No other requirements are known. Room 106 Courthouse 1st floor upper Marlboro.

22 apr. 77 Friday — 1. Tyler Bastian 301-235-1792

CONRAD
Conrad and Geisig — Survey — Copy

45.15 Catoctin Survey Telephone Call

CAT. other papers?

$ Edward Heite, Camden, Delaware, —

Geologists ? State —

Request for proposal

Geologist — identify typographic — mine —

Spectographic analysis — —

Fault — Geologist —

Limestone — low quality — Suitable as flux

Every mile & half to

any suggestion made for geologist.

6. 5

Dr. John Fauth, State U. of N.Y. Geologist.
at Courtland, N.Y. Courtland, N.Y. Tyler will send copies of correspondence
review report of Geologist.
Keep separate
1. Tyler O.K.'s idea of revision as follows:
1. A. Get Fauth (above) geologist to review findings
of and D.O.T. Geologists findings re. limestone source of
fluxing L.S. for charcoal furnaces. (Spectrographic analysis
B. Get Heite down for several days to review
analysis proceedings of Bureau Sur at Catoctin.

22 Sep 77 2. Friday. Margaret Ballard. 301-383-6899.
✓ Report call to Tyler Bartin. Geologist Fauth & industrial Heite
✓ Would like to call Heite & arrange for
several days here in addition to review of
our report. $150.
✓ Call Fauth & arrange for him to check on
D.O.T. Geologists results. (a day's work. $ Spectrographs — etc.
telephone — will visit next Wednesday.
$150 — send duty to him.

Pay Heite $150 wk.

Cat $ tel.

A. call to ask Margaret Ballard to call me back
under our direction She calls back
Mr. Campanella — ✓
Right of way — owned by D.O.T. no problem.
Reverse charges on telephone calls — re. Catoctin
to Ballard.
Geologists will call me at suggestion of Ms. Ballard.
Ms. Ballard confirmed that nothing more was needed
by way of data for them on Ann & Son and
we were ready to start as planned on Monday 25 Apr 77

3. Call from Martin, Geologist Martin. Mr D.O.T call Tuesday. 6

22 Apr 77 Ex 321-3436 Joe Dennis He'll,

Cat

Retrographic analysis - capability of doing. a week a so.

Rusty.

Dr. Faith, want to look at sample, - mail samples to him.

Less cost.

If have to verify -

Eliminating us, - get his opinion.

get outside geologist -

If not significant.

Geologist. core drilling - locate holes - charges not a whole lot.

Question conclusions - of State people - only trend in Uno

Areas - Pits were not legitimate - limestone cavern.

People who dust not roads - Until limestone

drum not develop cavities -

Limestone pits are good - not solution

Channels - or cavities -

recreated. no limestone cavities found.

90% - everything looks like

Green letter in writing - not authorized to

pull out until get this letter.

will remind.

applicable work all reading done.

Cost per hole -

Budget -

Best way to deal with Geologist -

tell what went done -

"receptivity" - 6 holes.

Nerver
Deep John

22 apr 77 — 60' — / Hagers Silver mine —
3. Martin — owner of iron works selling property.
(Contd.) — revived old legend — secret silver mine.
Cost — tavern — when got
Slaves — blind folds —
Silver — Secret silver mine —
Revived legend — 1920's-30's — in news page
N.Y. people supposed to buy silver mine —
Nothing came of it.
Bolt ~~silver~~
Legitimate pits — slung thru ore pits.
Engineering —
Iron ore — rock formation — enriched.
Crushed
~~Pit~~ deposits put down in order
mixed at some area.
Very good place to have a mine.
Biggest problem — Significance of pits.
Martin indicates the following points:
1. call Joe Dennis 321-3436 for Wednesday 27 apr appointment with Martin
2. He is amenable to outside Geologist and idea of outside check.
(must resolve this and call FAUTH).
3. Undoubted evidence of pits being "not natural"
4. Can run Petrographic analysis on limestone samples.

Monday
22 Apr. 77
4. Calendar of proposed events.
Cat.

APRIL

S	M	T	W	TH	F	S		Hours	Pers
				(1)	22	23	Res + Cond.	(3)	2
24	(25)	(26)	(27)	(28)	(29)	30	Comp. Pre. Survey	(5)	2
May (2)							DIG Interim Survey	22	10
1	(2)	(3)	(4)	5	6	7	Interim Survey (April)	5	2
8 (3)	9	10	11	12	13	14	LOB	(5)	2
15 (3)	(4)	17	18	19	20	21	Report	5	2
22	23	24	25	26	27	28		45	20
29	(30)								

call late meeting schedule for Tuesday units in so are working on remedial work

Holiday June — 1/2 day — Fourth unit — 1/2 day

4880 - 1 drill - 13 days beginning after May 9.

		1	2			4	Mullen.
5	6	7	8	9	10	11	
12	(13)	(14)	(15)	(16)		18	1/2 day Vistaus
19	20	21	22	23	24	25	
26	(27)	28	29	30			

10 October @ Catalytic Furnace.

Dr. Waite

Discrepancy: sidebar.
Res. & cond. 3 days per diem $105 over.

Counseling Contract — 5 days @ 120 — 600
Per Diem $35 5 days — 175
Evaluation — 150
Excess for 3 days @ $120 + $35 day — 925

301-555-1212

Monday
25 Apr. 77
Cat. $
Phone.
Highway Property.
* admin committee
Cat. Fence Admin committee

1. Tyler Bastian 301-235-1792 (O.K. to take sample) (with out dropping point) Plaster 1.5 Surveys
Slag pile W. wall - SW corner.
Auburn Mines (probably dump) (probably PRIVATE)
Excavation within Right of Way & easement area (Gas permit needed) (Exception for D.O.T.)
Need to have permission? Bastian: No.
Lead Gilsen — Donald Cartwell
* Catalytic Force Industrial Society, Sec.
Route 1 Box 5. Clement Gardner, Sec. Thurmont.

10

9

✓ I mention that depressions man made - & not natural - from Geologists of D.O.I. & Tyler surprised but impressed

[Cat] 2. Maryland Historical Trust - Annapolis.
$ Phone.
301 - ~~269-1212~~ 269-6200
Dr. Leland Gilsen. -
Fall of Plans. "
301-269-2213 be appreciated mentation & call
" Come on out - we can use an extra Brain!

[Cat] 3. Robert Bushnell. ~~301-269-5656~~
$ phone
~~269-6200~~
269-3656 269-2230 Dept. of Nat. Res.
Will call tomorrow.

[Cat] 4. Joe Dennis. 301-321-3436. re. Martin, Geology meeting. Martin here today - Tank to have him call me
$ Phone.

He called 5. See 5A Exit 23 go north - over bridge - under body
Pete Martin N on Falls road to 1st Sty.
four hundred yards - turn right
double loop - bld under
construction - 100 yd. buff
brick flag - park in vicinity
To Bring bag lunch -
Leave 9-9:30 am 11-11:30

26. 5A. 25 apr. 77 first day of project. I worked on research and background
[CAT] $ also coordinated in. $120 Salary for me. oxon Hill

10

MONDAY
25 APR. 77 6. FORMAT. THE REPORT (ALTERNATE 1)

"Intensive Archaeological Survey of U.S. Route 15 from Putnam Road to Route 77, Thurmont, Md"

ACKNOWLEDGEMENTS

TABLE OF CONTENTS.

I INTRODUCTION.

ASSIGNMENT.

PREVIOUS ARCHAEOLOGICAL RECONNAISSANCE

METHODOLOGY

II AMERINDIAN REMAINS

III CATACTIN FURNACE REMAINS

IV OTHER REMAINS

IMPACT

V SUMMARY AND CONCLUSIONS

LITERATURE CITED.

PLATES.

SITE RECORDS

26 DAILY LOG.

CATALOGUE OF ARTIFACTS

" PHOTOGRAPHS

Tuesday 26 apr. 77 [CAT] 6A. 2nd day of project. I worked. oxon Hill. $120 me. Coordination & research.

Wednesday HCL gives lunatic. (get bottle). - if fizzes.

27 apr 77 Harpers PHYLITE - metamorphic rock - micaceous.

[CAT] $ Soapy texture.

I worked. $120 me. Contact Hwy - have to stop if ordered notions.

Visit to State Highway admin. Construction - Pilings at m. on side of pit. but

Soil research dir. Covered up.

end 23 Baltimore Well way. Wall a bridge - ~~Bridge~~ Elevated. 7-9 times on my

Water - Pit filled with water. -

Water table - filled up. - 8' below water table

Natural tracks - Tracks for Shrinks

Before Quarter Ruined center

12

Dorsey & Fredrick Faults & 2 mine faults. 11

Warren Kubling – drunken
Try to find US 15.
Cross & Lowestone

Zollman drillings

Acquisition of money. – Funds –
Best need last cost,

Moving road last thing – 1
Bridges
retaining road.

1. Background
2. Potential
3. procedures
4. Work on pile together.

Interpretation of data D.O.T.
Bangs etc. addressed to mr. Compensation.
copies to me –
report Smelting Lite 1974
Letter to Compensation.
Invent.
1. Compression of rock samples – look at Slate –
2. Natural or not – compression of L.S.
3. drills.

Jersey Barnes ——— Squeezing road together
1962 cemetery. US 15. guess
Geologic map of Fredrick County 1938. – See
Maryland Geologic Survey U.S. Geological Survey.
555 – abandoned old mine shaft. Oct 22, 1969.
on → Field Plan with revised alignment to West.
[Set out by Law C – not complete Borings but on)
complete set should be down town.

gradational – 1 ... 2 ...
Fire Inactive not known.

Fredrick to Mr. grove to South. Lime stone.
Faulted during Jurassic times.
Mine in Crone lime stone in new oxford formation.
X Crowned Barnes. – active –
X abandoned quarry

Wednesday 27 Apr. 27

12

Fault - important, L.S. on FEO together.

Mines on Fault.

Have to be right on money to get both together

Phyllite or limestone.

~~[illegible]~~ metamorphic rock

Water - iron precipitation - concentrated.

Limestone - on E but to W.

Faults cut off limestone

7 tons cut = 1 ton iron.

Fault -

Iron in Phyllite - + acid water - dissolve ores

come in water -

Iron bearing water hits L.S. area (grind up)

L.S. will neutralize acid -

Water can't carry iron - precipitates out

Places on fault where Hard water flowing.

tie in to ravine - : Ravine = iron mine,

because of water.

New Boring - Presence of removal of Phyllite L.S. +

Water. iron - + fault,

Verify - V9. Viewers with borings -

abandoned L.S. mine.

Geological Survey. 1938. State Geological Survey

of Geological Map on Frederick County.

Plate III, V.9 Maryland Geological Survey the Johns Hopkins Press, 1911

See map Plate 12 for iron at fault lines.

Limestone - Frederick + Graves - Similar but different

fossils.

Survey water Dr. Faush - Ask for suggestions on what to do.

555-56 - limestone but here - limestone fed here.

Rawlett's point — Wednesday 27 apr 77 — Fiber Survey / July 9, 1920 [illegible] — Station Mine 13

Division Geological Examination 1971, 1969, 1974

1. Survey of work + when done ?
2. Citing by me. — List of correspondence.

Concerns

Survey. 1. Non-limestone mines. (Station number 555-556.)

2. Entrance limestone — in tuff + forms maybe. Not a strong point.

3. State of mines — worked out? need strong construction.

4. Definition of pits area — commonly. Via definition of tuff + concentration (scarce).

Exhibit is impacted. — Put to covered up — outlined. Put is untouched.

Exhibit — restricted section.

outcrop

✓ Contractor wood — open it up + close it up — Out part of contract.

5. Replot. boring on Little map.

Cat — Mileage Trip over Hill — State Highway Administration

$ Soil — division Ext 23 Baltimore Beltway

10190 (out) 10318 (in)

Thursday 28 apr 77 — 1. Trip to Catoctin 10318 - 10400 mileage

2 Set up at Cozy Inn.

Cat $ 120 me — 3 Contacted Gardners Son at Auburn Home - O.K. to Visit Auburn Mine which belongs to Gardner.

Food

Foodgrip — 4 Visited Renner — field trip date for Monday O.K.

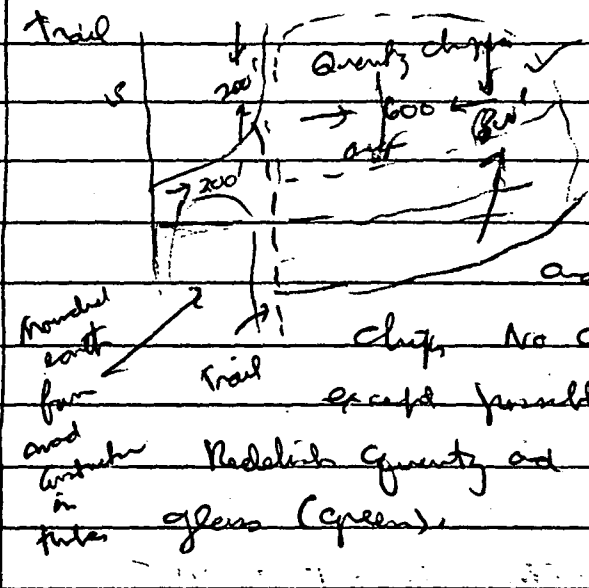
5. reviewed route

Friday. 29 apr. 27 [Cat] $120 me Food & lodging.

1. Checking Conrad - Geasey Survey. Some streams between Putman Road and Furnace Road which could have sites - recheck.

2. 18 FR 142 (Furnace Road East) Site area examined. ↓ 600 E of roads - 400' North of Road and field trail

CHECK 1



Field of recently plowed and Harrowed red-brown soil containing rounded stones (Silt Stone Sandstone) up to 8" in diameter and quantities of hinchas Quartz cores and chips. No artifacts as such recognized except possibly "razor" edged chips. Some Reddish Quartz and a few pieces of furnace glass (green).

C1

∴ a workshop taking advantage of large quartz pebbles most which are worked with many facets.

CHECK 2

3. 18 FR 141 (Furnace Road West)? I crossed US15 West and entered the road looping back South. A newly plowed field revealed a soil mixture not unlike 18 FR 142 except for paucity of large quartz cores and absence of Quartz chips abundance of stream rounded pebbles as in site across road. However while this was at a near location given for 18 FR 141 by Conrad it 'overlooked the swampy gully cut by a spring bed by about 600'. this did not resemble a site to me.

C2

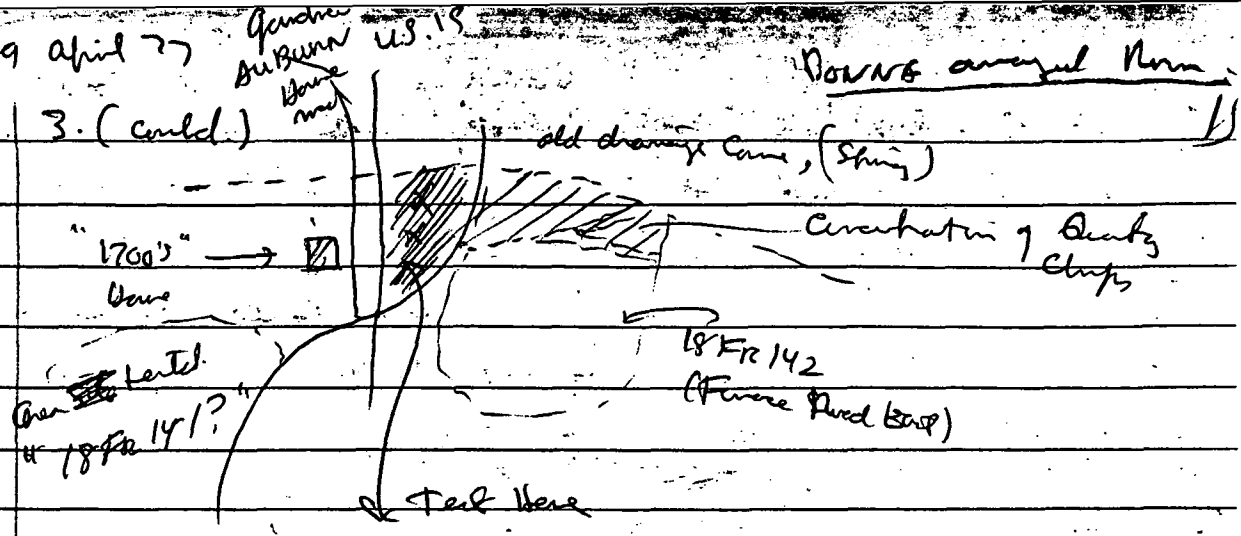
At present it appears that the drainage ravine here is flanked by spatially located workshop areas it would be possible to test between US15 and the furnace road at a old natural level near the lowest point of the ravine to check conrads possibility

16

Friday 29 April 77

Donna arrangement Norm

3. (contd.)



C1-2

4. I took a Brownie Kodak (Box) picture of the site facing North and showing the U.S. 15 headed North, Catoctin road and site planned fitted w foreground. Also a picture of the soil close up with collection of Quartz etc. fragments in my Filipino Vest.

Sunday 1 May 77 Fredericksburg

Check 1, Catoctin Furnace Road + US 15, right side

(1) Fire Bag FO5 US15 4/29/77 18 FR 142 Surface, Quartz

9 flakes with use retouching on edges — Rayon = black & artifact.

3 green furnace glass (from old furnace area?)

28 Chips + Cores of Quartz

1 dark Rhyolite Chip

∴ Debris of Workshop areas

(2) Check 2, FO5 US15 4/29/77 18 FR 141? Catoctin Furnace road + US15 left side (See Conrad 1975)

3 Quartz cores, 2 chips

1 Rhyolite Spokeshave artifact of Quartz or rayon black

~~(3) Test 3 Slag pile SW corner of retaining wall 4/29/77 3 Limestone (?) frags for comparison~~

Catoctin Furnace

2 May 77 1. William Renner interview. 16
Monday

Bathing House — Ladies took baths here

RENNER

Bath House

Spring

Wm Beatty & had bath

Slave wars

coming up

dam

C4

(5) Ladies bath — [illegible]

Old Wm Norton House

1772 — William & [illegible] Sarah

Bright — [illegible]

Wm Norton

Bakers Johnson

Spring

House

tub inside

Stone

(1)

line motor

dam

18 x 16 [illegible]

dirt floor.

on Wm Norton

House property

Fruit & [illegible] Wm [illegible].

1772.

Old Sanging [illegible]

Jess Wolf — old [illegible]

(4) "Slave wars beat

water

Handed down 1 generation to another

Wood Stone.

(2) Planted [illegible] Bright

Clay & Sand

[illegible] & [illegible]

(3) Knocked bath house down 1961-62

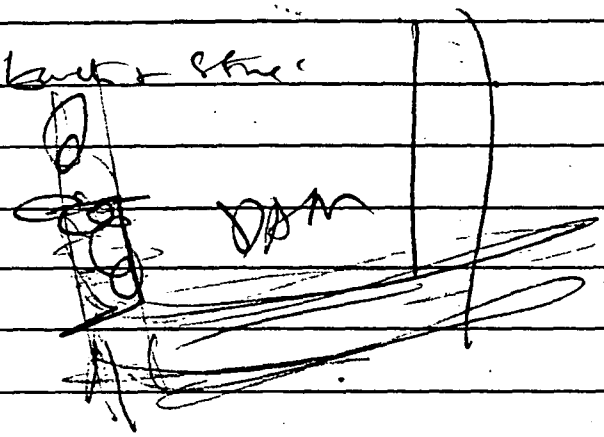
State Road [illegible]

Should be excavated — Sowers

Friend Tressett

Raceway — Raceway — 3/4 4' deep - 10-12' wide
RENNER — filled in [illegible]

C3 Dam — [illegible] stone



DAM

[illegible] stone wall

fill

135' from edge of wall

100

20' [illegible]

135 feet [illegible]

[illegible] dam
Force [illegible] [illegible] [illegible].

i. [illegible] 100' of dam & raceway will be affected by drainage.

Some are high [illegible] of dam when [illegible] ~~[illegible]~~ trees — See [illegible] of [illegible] society —
Many [illegible] well [illegible]
Many [illegible]

ii. [illegible] [illegible] [illegible] [illegible]?
[illegible] dam will be affected [illegible]

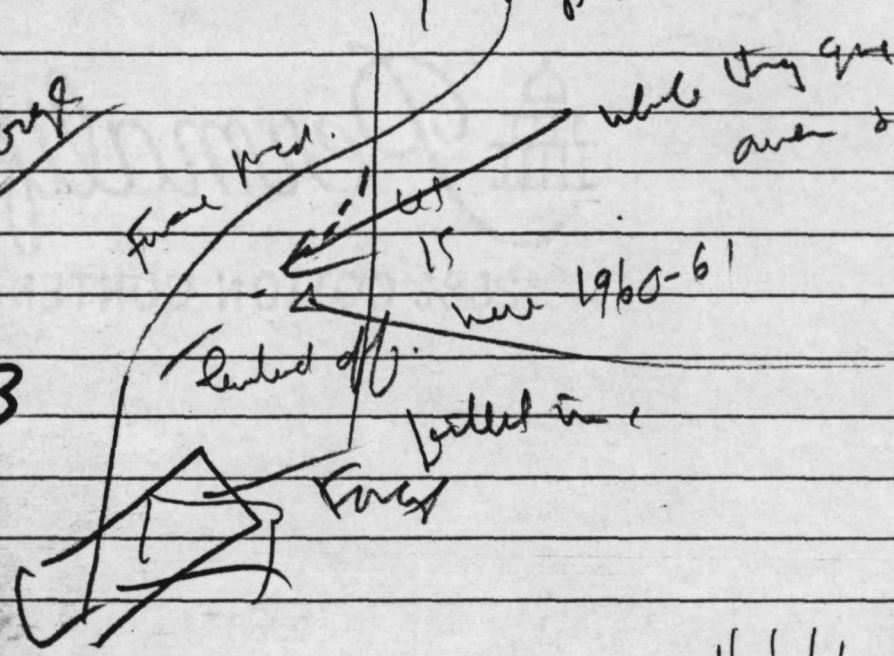
Wahoo

Arrows in garden + Fancy Hawk — in
Renner Home on that Hill

RENNER

Has spring —
Series of Springs.

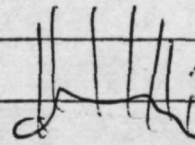
Forge



while they give
over & top soil
etc remove
to make new
more
old roads
(- - - -)

C3

Area West of Site



— other field at
on time.

1st Furnace

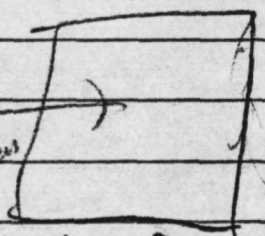
1st furnace — Race ritual Shrine.
(Robert K. Renner)
~~KERNEK~~ KERMIT ~~Fillee~~ RIFFLE —
Garages set on east Home
Race wing 50' wide 3-4' deep.
Right away — Fell into into
Furnace right in by
rocks hold away

old wagon
library
(Friedrich)
Shrine 1st
furnace.

Furnace
Stone Hawk
Area

C17

4 big bolts
to hold stone together



Furnace iron
hw draftsman
hw draftsman

2" Square
Bent out
by fire

Behind Garage
is ritual
Burnt sand wall.
is Ash to Put Fire blow

20

17

See [illegible] Stone [illegible]

RENNER 1st furnace — Stone [illegible] away

but burnt stand

(mill burners — 1 stone Bearing) from mill)

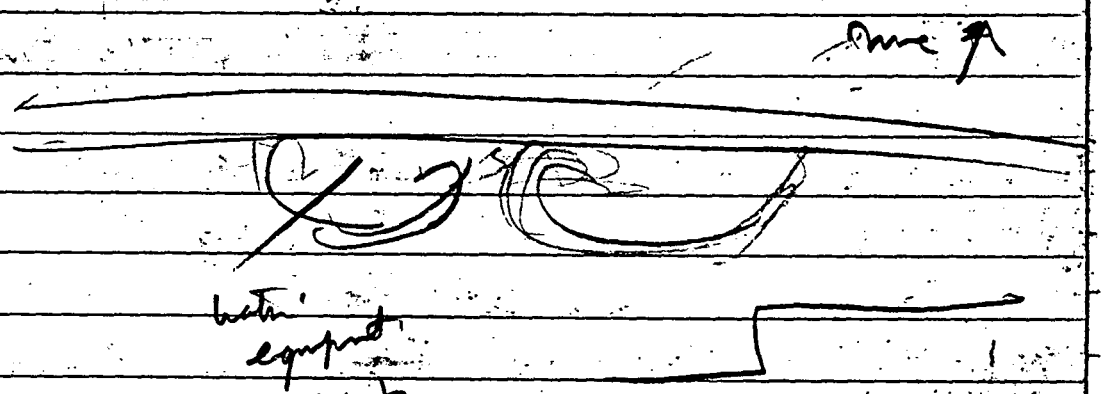
C17

[illegible] [illegible] [illegible]

Big One Bark
Little one Bark
[illegible]

1 ofm 37' deep — equipment.
Sandy one cart — at Shop.
Hammer Head — (forge)
probably old forge.

C13



water equipment
Bottles to
One Biggies — cart
Man Handled it.

Indian Families — on mountain chest and
Cofrans, Morning Stone, Steiner (Surveys)

RENNER

RENNER SITE

39 years of [illegible] up - [illegible] for Gardner in Chestnut Soil.

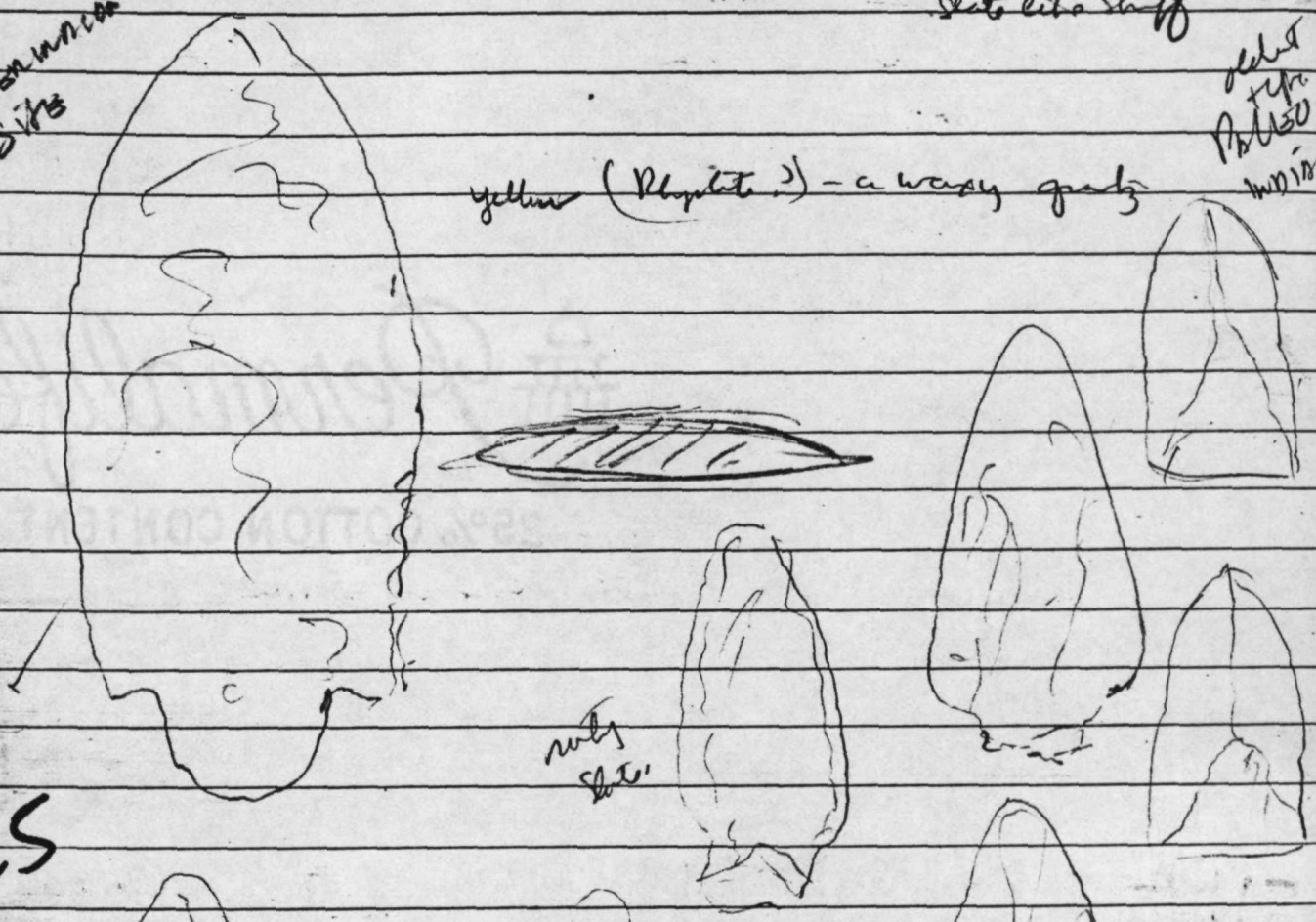
20

Amerindian Site

slate like Shaff

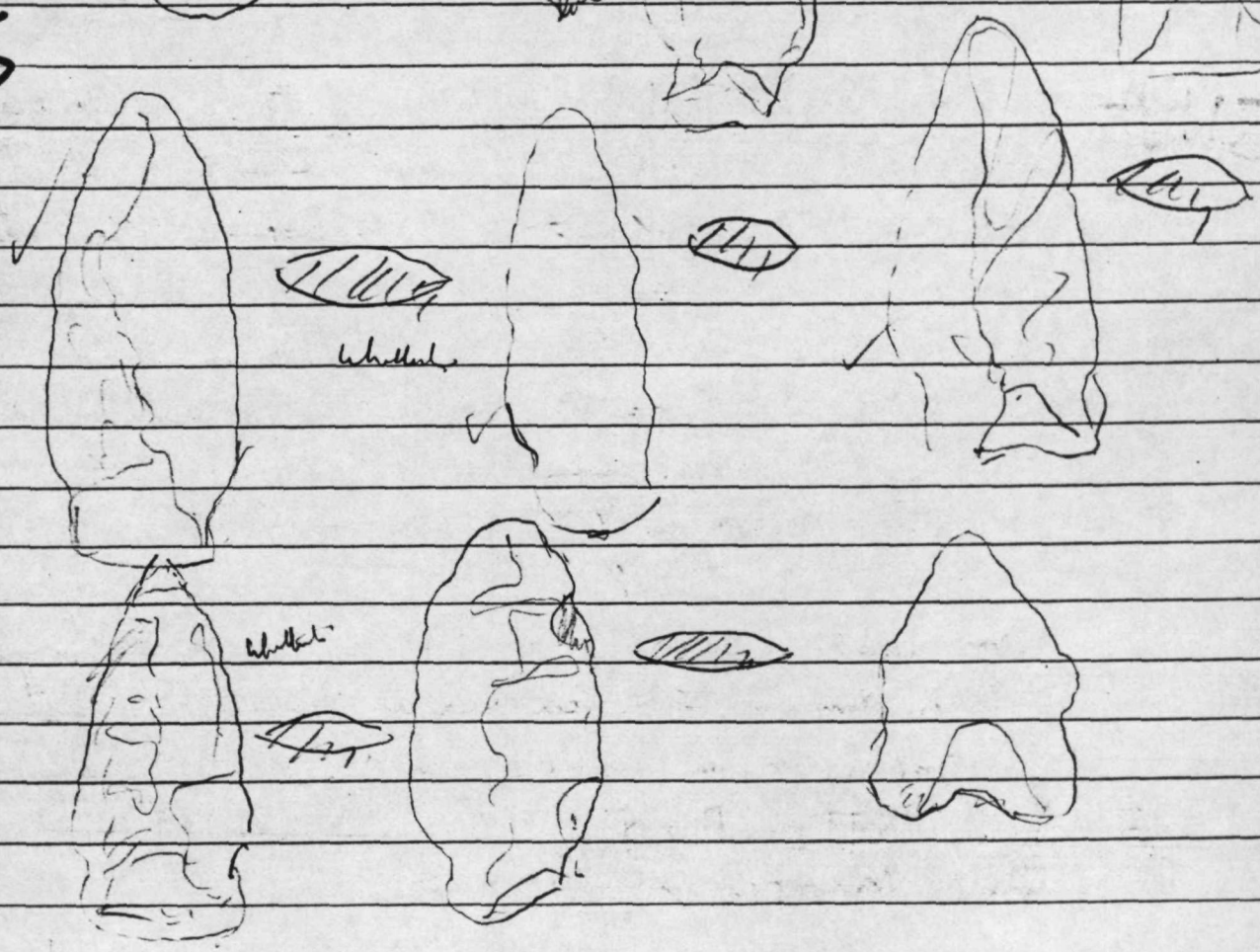
debut type PALEO-INDIAN

yellow (Phyllite ?) - a waxy quartz



rocky slate

CS



whetstone

whetstone

22 Furnace area 21

RENNER Furnace 1 — 1974, Johnson — shells,
Kettle, Brewswell, Frederick Co.
SCHARF, Hunting ↗
Land grant. 2000 acres — old Survey Book.

1744 — record —
C3 Old Forge —
original Furnace —

2 May 77 2. ~~Pete~~ David Martin 301-321-3436
Martin + Tom will arrive in Morning,
check in here.

3 May 77 Schedule: (with A.O.)
Tuesday SHA Geologists — data
1. Profiles of mines — completed — to be drilled —
SHA 2. Petrographs — comparison Frederick L.S.
Crane L.S.
Fauth or other geologists — evaluating interpretations
comment on my interpretations.
(call Frederick SHA now.
(Geologist at Smithsonian.)
1. call Mr. Keeney 663-6185 — arrange products.
May 9. Monday. Catoctin furnace. Slack 2.
Log Hearth Shovels — trowels — Brick layers.
Mr. Castle answered — will provide above as requested
on Monday 8:30 at Catoctin Furnace.
Cat. Tel. 30¢ next one in using call pay phone
3. Tom BETTENDORF, Mineral Engineer (Geologist) WVU
DAVE MARTIN, (Geologist).

SHA

3. (cont'd). 1962 as Built Plans U.S. 15 —
Center line — vertical profile
Plan view — horizontal.
Tom will request this from me.

4. Fitzhugh — Kimbel ore pits —
Visited with Tom, Martin, Kalb —
decided needed more survey to check if
drill core or digging needs —
SHA agreeable to several Holes — behaviour
not deep.
Agree on as Built plans needed & will be [illegible]
Saw dump area used by Park.

C16

check and advise them by about Monday or so.

5. Race Pond and strip mines, Race [illegible]
Viewed this area and decided that
a back hoe could give necessary
data. (i.e. bottom of race)

C15

6. Summary:

1. Fitzhugh — Kimbel ore pits — possible drill
vertical section — check walls
2. (Race Pond — Back hoe),
3. Ore pits — "
4. Ore mine pond — L.S.? Profile
5. Look at Samples
~~6. Ore mine at [illegible]~~ —
6. L.S. not to Silver mine.
(Magnetic anti. ?)
7. Get as built maps.
8. Find Dr. Smith

check

7. We visited old forge and dam - no drilling here

SHA

8. We visited Renner - Saw "Silver mine" and "abortive Limestone mine". Martin Sapp drill picked up L.S. at 40', Shaft supposedly 60' then spreads out. He would sugar the mine shaft if I require it. But he is doubtful. He examined along with tom ~~[illegible]~~ the rocks supposedly Silver Ore - identified it as pyrite + L.S. Some iron metal mixed with quartz. No silver. Took samples of L.S. which he saw as crystal and probably not so good for fluxing iron

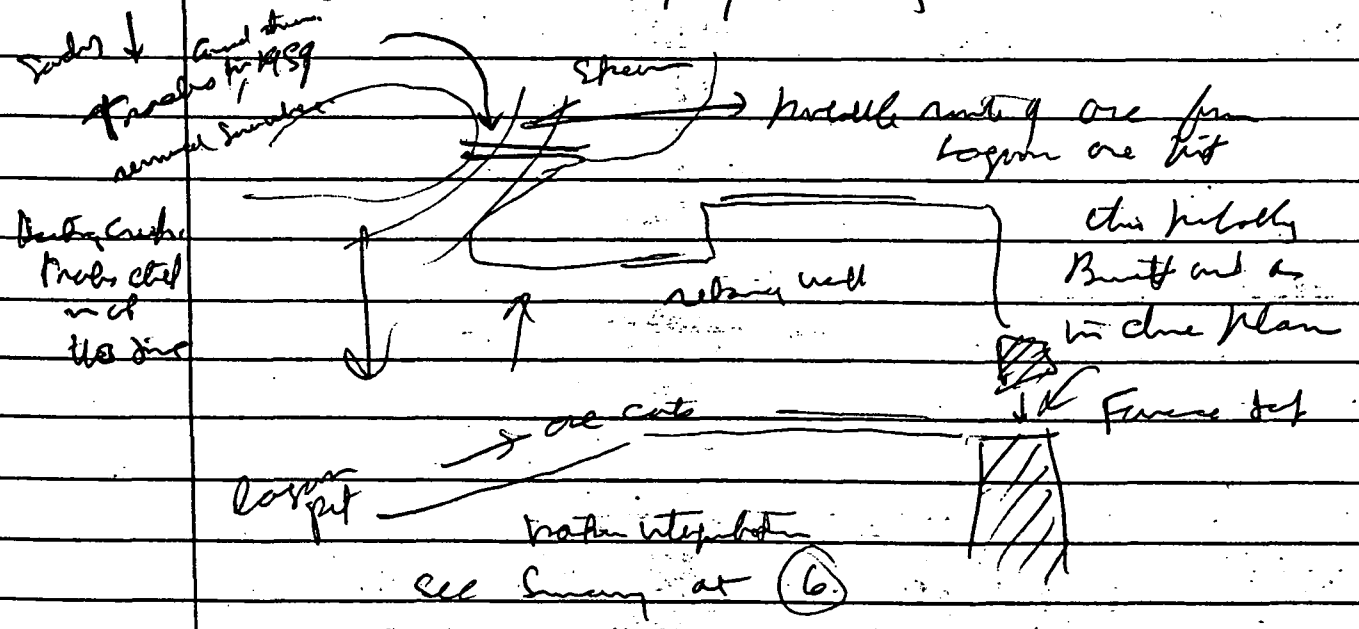
CB

9. We visited big lagoon ore pit. Decided on taking a core in Right of Way area. This is really big. Good footing 8" water 7' of silt. See Sandy

CB

10. We visited talus slope, the SHA team took L.S. samples to compare with abortive L.S. mine sample + others. He needs to get more L.S. to make sure sample representative of talus pile. If we looked at top of retaining wall

L.S. TALUS



Nation interpretation

See Summary at (6)

SANDY

4 May 77 Wednesday

1. Visit to Pub Superintendent Charles.

Lagoon

Trench still in Pit. — cross tees.

carts etc.

Admit [illegible]

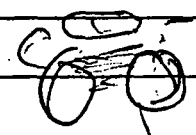
Pumped for 5 days & 5 nights — 2 pumps

+ 1 pump. — 6" pump.

C13

Sludge 6" deep. — from the Lagoon are pit.

lots of things at home from Pit. — are cont. they have it.



— rotating

rail wheels.

artifacts from earlier dings still here.

Don Mr. Kooper

endangered Salamander — lots of egg sacks in lagoon

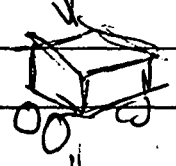
Wild Life Biologist — amphibia, Gary Taylor.

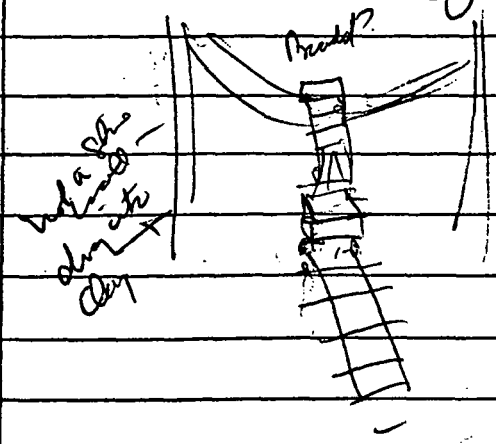
Biologist in charge of Non game & endangered Species.]

Check wild life people before drawing Lagoon pit.

"endangered species breeding — can't touch"

may just be endangered in Maryland.

Photographs of Sandy —  of Kimbel are [illegible]



John L. Faulk

Assoc. Prof.

College at Cortland.

26

SANDY | 2. 2 photos of mines — get from Renner — copies at Sandy's — "Kinkel mine" is according to Sandy the ~~Lagoon~~ Catoctin Furnace mine taken from about ~~[illegible]~~ road 15 land toward Furnaces.

Sandy

C13 | Sandy — attend 6' of muck below water level

C16 | Sep 1969 when exploration took place.
Other artifacts: Brick lining on furnace
Cook Furnace.

Sandy — ~~[illegible]~~

Brick YD. | "old Brick yard" in private ownership
Filled in a couple time.
→ Route 15 — put debris in it
Local ledgeout Brick made here.
at Entrance of Park to S —

Who is this? | Another informant — Hummout. not as old as Bill Renner.
Born + raised in Furnace area.
[Mrs. McIntyre, Mrs. Cantwell.
Gardiner Pres. of Historic Society. Mayor Black Chairman of Catoctin Furnace
Muck for Catoctin
C14 | Point ~~[illegible]~~ manufacturing plant

C13 | endangered species
Check before Foster with this. | Salamander in Rose Pond — also checking Catoctin furnace ore
Large iron ore vein — at Catoctin road.
Strip mine
Catoctin Co. always exploring (Silver mine?)

Ron | Houses — Foundations Foundations just North of Hunting Creek.
Stream highest part of Park — vegetation
Stone Foundation.
Brick Kiln — back of upper Cupit station.

note: revisit Sandy's Office for data on mines

See the News. March 27, 1972. Page for data on exploration of Catoctin Frederick highland. D.C. mine.

Account of exploration in Logan mine. 2 dolly whole staff of Dolly mysteriously here.

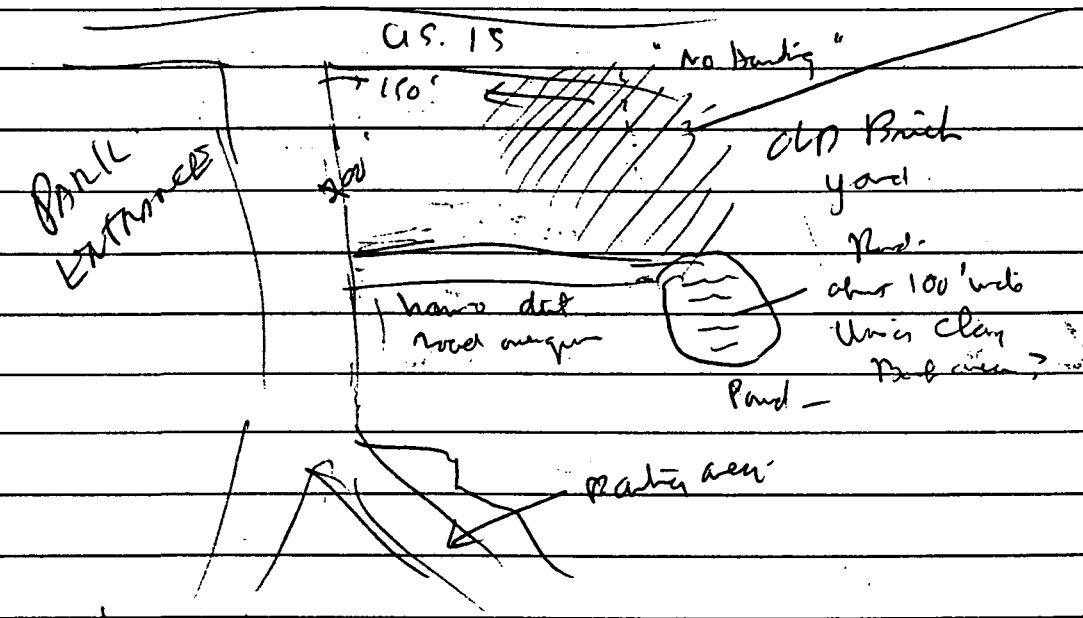
Trailers not even rented

After road constructed slide down hill — high boulder put in.

Hill is mica. Clearly — keeps pouring out of Catoctin Ground Rd.

3. Sandy shows have the old Brick yard — facing on road 150' S of Cunningham Falls Park entrance

Brick yd

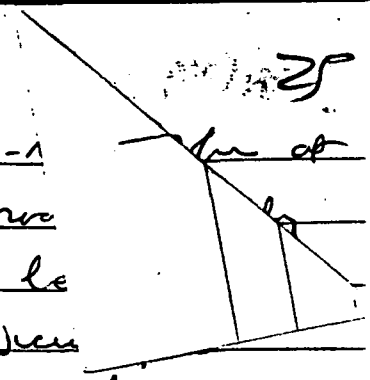


∴ see "As Built" charts at this point.

need Back Hoe to dig trench see extent of Brick Kiln.

Get more data.

4. Clem Gardner. will return about Saturday — admire Rm 271 - 230b. I met his older son who lives in old House just South of Auburn House

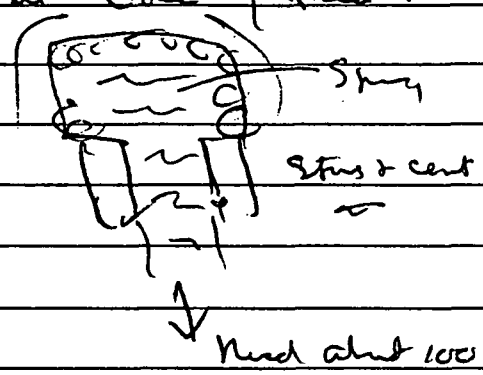


may 9 ~~Apr~~ 97 Wednesday

Auburn House area.

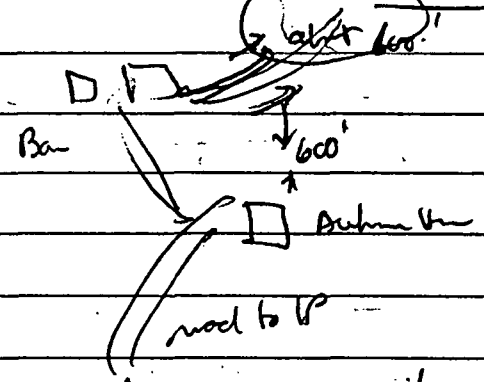
5. Between Auburn house and old "pre-... cottage" is a spring about 100' W of ... hut. This has ○ tunnel carrying water ... is probably reason for Indian Sites in Vicu... workshop 142 (See above). The spring is at base of mountain swail at base of tree.

AUBURN SPRING

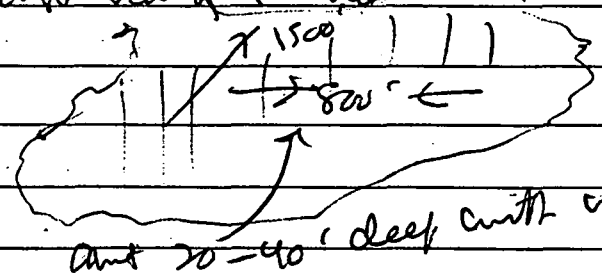


6. Auburn House area. Jumped the mines located 600' west of the house and approachable on a dirt road which carries one to the to over looking the mine

C18



the mine bore very little fill and is very pristine looking though heavily timbered



Younger son of Gardner who met me at door said nothing was found in the pit like railroad tracks etc.

also No body knows anything about the mine - "many it is old"

6. I checked right of way & easement areas on the two map series (1) 1961 (post U.S. 15) and (2) subsequent.
call Mrs. Ballard & Law what's his name re
of where R/W is at Catoctin Furnace Rd. & U.S. 15.
Does this include Forge or not? at 541 —
2. discrepancy of widths of R/W 1961 — ~~[illegible]~~ 200
Other — about 150

5 May 77 1. References in Charles Sandy's office, Cunningham Falls State Park.
a. Natural Register of Historic Places. U.S. Dept. of Interior.
Natural Park Service. Registered Feb 11, 1972. ~~Lat. 39° 34' 11"~~ ~~34", long. 77° 25' 55" to 57". No. F-1230 through F-1267.~~
F-1234 "Isabella" Stack 2. Built by Jacob Kunkel
✓ Stack 1 "no longer extant" — in correspondence between Thomas Johnson and the council of Safety in Annapolis in Archives of Md.
✓ Auburn House — built by Baker Johnson Sr. 1803-11
✓ Catoctin Manor House 1790-1850.
✓ Race Ditches, iron control gates, stone & mortar Dams, Spillway race, Race Road, Raised ore cart path later converted into a R.R. Bed.
✓ 1 Ore and Limestone pits South of the Stacks —
✓ Base of 1969.7 Iron ore cart + wooden ties (F-1265) uncovered between limestone pits of (2), Plus Pulley eye and base "used to haul Limestone from the bottom of a deep quarry"
✓ 2 ~~[illegible]~~ L.S./ore pits — (1) L.S. pit South of the Stacks, (2) Ore or limestone from Second pit 600' South of 1st L.S. pit.
✓ Out buildings of Auburn House (1) Spring House (2) 18' structure used as a bath House (3) 2 20th century stone pillars on Md 806 (4) Stone walls and earthen embankments supporting large artificial lake between c. 1845-1890.
✓ Reference "What is the future of Catoctin Furnace? a Preliminary Historical & Archaeological Survey 1971.

Info. [illegible] 638-5200
202 — 202 — Dept. 343-1100
202 — 523-5464
202 — not [illegible] [illegible] [illegible]
nagnett matt 202-523-5483
1-202-5555
1-202-1212

5 May 77 | 1. Cold. Sandy's reference.

Thursday | b. Location of Furnace. 119.6 acres.

NW: Lat. 39° 34' 57", Long 77° 26' 10", NE. 39° 34' 58", Long. 77 25' 57", SW. Lat 39° 34' 11", Long. 77° 26' 06" SE. Lat. 39° 34' 12", Long. 77° 25' 53". Arrested March 24, 1972. Md. Historical Trust.

2. Mary Rae Cantwell ~~to~~ 5010 Fort Sumner Drive, Sumner, Md. 20016 — asks about graveyard on the land that is part of the so-called Night of Gray just behind Mrs. Nemers' House" — seek out next of kin before graves are disturbed. Com-Shaft of Montgomery Court here. Water dig of students Frederick County college + Montgomery Com. Col. Mentions Huge slag pile in Mr. Shankel's place.

SLAVE CEMETERY

C6

3. Tyler Bastian to Mrs. Mary Rae Cantwell.

(1). Holcraft, Jacob Mehrling. "Names in Stone"

(2) Copies of Maryland laws pertaining to Archeology (Art. 66C, Sec 110 B-L), disturbance of graveyards (Art. 16, Sec. 119, Art 23, Sec. 162, Art 25, Sec 144, Art 27, Sec 265-7 and Supplement). Tyler has no information on graveyard near Mrs. Nemers.

3. Fern Ken Rapp to Tony Abar Feb 20, 1973 discussed Mead Airport, U.S. 15 reverse National Historic Area — to select E of Park.

4. References listed in Oak Leaflets by Gary Pickett on Catoctin Furnace Iron Works.

T. J. C. Williams — History of Frederick Co. Md 2001 - 1910

Sh. J. M. Swank — History of Iron (1884) P. 194

J. T. Singewald, Jr. Report on the Iron Ores of Md. with account of Iron Industry

Fern Rice — Report on Catoctin Furnace

Dr. Charles W. Porter (asst. Historian) May 11, 1936 – Preliminary report on Catoctin Furnace Iron Works.

5. Letter commissioning ~~[illegible]~~ Mr. J. Glenn Little and Mr. Stephen Israel (asst.) to proceed with "an intensive reconnaissance study of the Catoctin Furnace site to obtain a detailed evaluation of the historical – archaeological resources to be affected by the commission proposed improvement for the dualization of U.S. Route 15". Tyler Bartram to Charles E. Sandy. 8 Dec. 70.

6. J. Glenn Little to Mr. Paul M. Milash State Road Commission" June 23, 1971. re: Preliminary draft of report entitled: "What is the future of the Catoctin Iron Furnace". "Does the construction of the additional lane to the east of the present U.S. Route 15 destroy significant historical, archeological, and geological features that are either directly or indirectly related to the history of the Catoctin furnace? the following will be destroyed:

1. Stone foundation to east of center line 568.
2. Ore or limestone pits between center line 565 and 567
3. Races and sluices between center line 561 & 565
4. an ore or L.S. pit between center line 559 and 561
5. Sluice and dam, and the race pond between center line 578 and 580

Conclusions:

(1.) "Dualization of US15 to the east does not significantly damage historical or archeological potential of the Catoctin Furnace Complex. Recommends dualization between (stations) centerlines 530 & 584. ~~total esthetic change is far from serious~~ 5 or 6 individual features only destroyed. Requests tunnel to connect with Park.

L. 1716

On P. 55 of his report

5 May 77
Sandy's office
references.

(3) "with in the Right of way few if any structure a
evidence of possible structures exists today that directly relate
to the industrial expansion or contraction of the Furnace complex
between 1775 & 1983 & therefore the damage caused by
the divulgation will be of a minimum amount".
Historic site archaeologist to be present during excavations.

7. Friedrich Post. Sept. 1969. Ore cart recommendation "LORDELL
-CAR WHEEL Co. & WIL (mington), Del. Feb. 10, 1871

8. Mary Rose Cantwell Feb 15, 77 to Kenneth Weaver. Geological
Survey, Slide of Md. John Hopkins. "Disturbed at collapse of
wall section at Catoctin Furnace, ... cannot accept vibration
tests".

9. Frank MENTZER, superintendent Catoctin Mt. Park to
J. Glenn Little, contract archaeology, Inc. (1) "the NA wrote of
the report in matters of iron technology and an understanding
of the history of iron would, in my opinion, cast legitimate
doubt on the validity of its conclusions and recommendations.
a. Little argues that Kunkel's patent on L.S. indicates
that the limestone pit was used for this purpose prior to this date.
b. limestone used throughout & not particular hardness of
Catoctin. — used a refining iron to steel & not making pig iron
c. anthracite (James B. NEILSON's idea in 1823) doomed
all colonial charcoal furnaces not just Catoctin.
["the Catoctin Furnace could ideally tell the story of how
America grew to become the world's greatest industrial power
(2) the pit to SW of Furnace complex actually referred to
as a limestone quarry and not an ore pit (P59).
an insufficient data. 1811 newspaper advertisement
(P.40). " L.S. quarry not more than 200 yards from
the furnace bank" but newspaper ad also mention
" that the ore bank immediately on the spot has inexhaustible

MENTZER

Snay 77 9. Contd.

(2) Little concludes ore pits directly west of Stack 2 & indicated in sale indirectly burned under USIS 1960-64

But Mentzer says: "I personally accompanied a geologist to the site who stated, in his opinion, that this was definitely Not the limestone Quarry."

Dy. Mentzer's statement of May 6, 1970 contradicted by Little.

"One unusual feature of the Catoctin Furnace was the close proximity with its ore beds. Immediately behind and to the South of the Ruins is located one of these old ore pits. This unique situation presents and standing opportunity for telling a complete story, from mining the ore to its being cast into pigs".

Mentzer lets little an inconvenient & slippy thinking re. the Park

(3) importance of Furnace: "the Knox papers (Henry Knox, Colonel Commandant of artillery commissioned by General Washington) show that the Catoctin furnace furnished 950 10 inch shells in a 1781 inventory (Photographs of the Knox inventory is in the files at Hopewell Village National Historic Site). This should lead you to reconsider P19 "the possibility that the charcoal furnace had not actually produced war material for the colonial army" P 18, 19, 20 & add to the historical importance statement P 53-59

MENTZER

Menzie's Rg. Creed

"When it was discovered that part of the State Park had been used to construct present Highway 15 in spite of the condition that these lands were to be used for recreation of conservation purpose, the state was required to acquire additional lands and add them to the property. This did not condone this misuse of Park lands, but was an after-the-fact restitution. It would be a great mistake for the State to again break this trust to the detriment of these historic old ruins." (June 21, 1977)

34

SANDY

6 May 77

Sandy's office + Field examination trip.

C13

Check Remarks for little Lagoon pit on his land

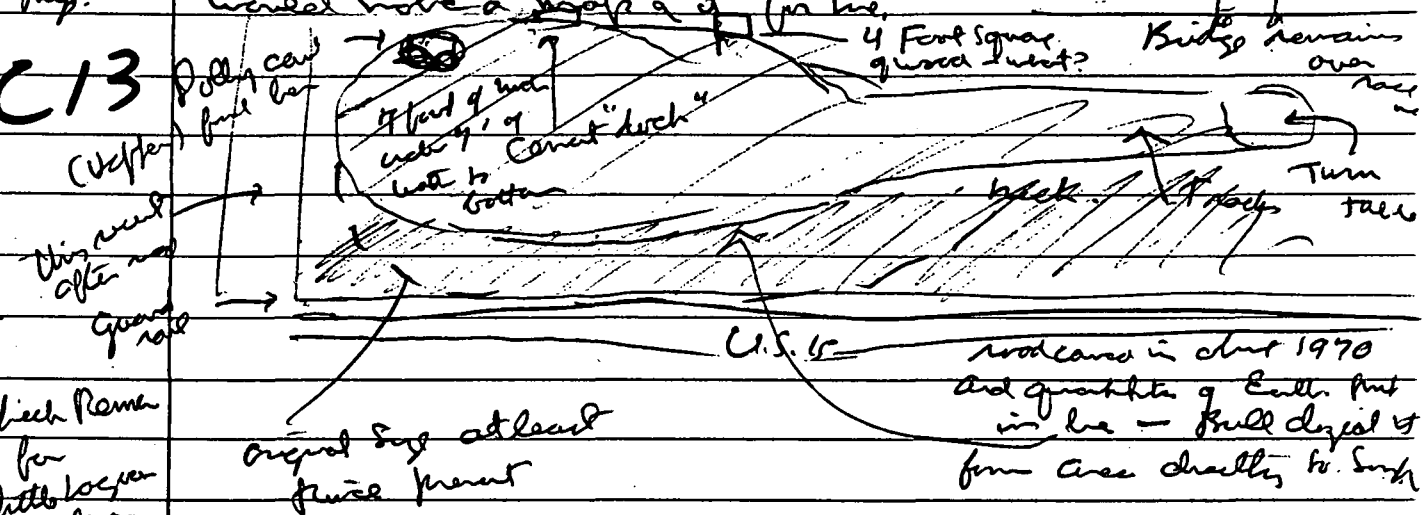
TRESSLER CHECK

13

C

34

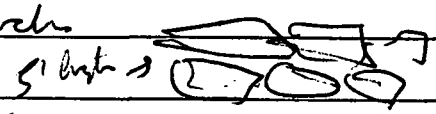
1. I dropped in on Mr. Sandy, Park Super., and he took me to the Big Lagoon pit as seen from U.S. 15 above. We stood about 50' above the Lagoon pit in the middle of the big lobe. He described the following and said he would make a map of it for me:



2. Checking on mindings work at intersection of Cabinetes Rd and U.S. 15 at "Fage" area.

3. Talked with Mrs. Tressler, Mr. Tressler Sr is ill., Mr. Tressler and Mrs. Bowman (Son and daughter). Land Bought for right of way in 1955. Years of delay kept them from developing back yard - spoke of both House, Spring, Lake. Mrs. Bressell spoke of high wall behind Spring + both house. Mrs. Bowman "used to swing down from it. (Gone?) Mr. Tressel started fish ponds in "a big way" here. Family from Germany came in middle of 1800's. Occupied land here since 1948 ("for last 50 years")

3. I inspect Stone wall which is loose constructed of angular rocks

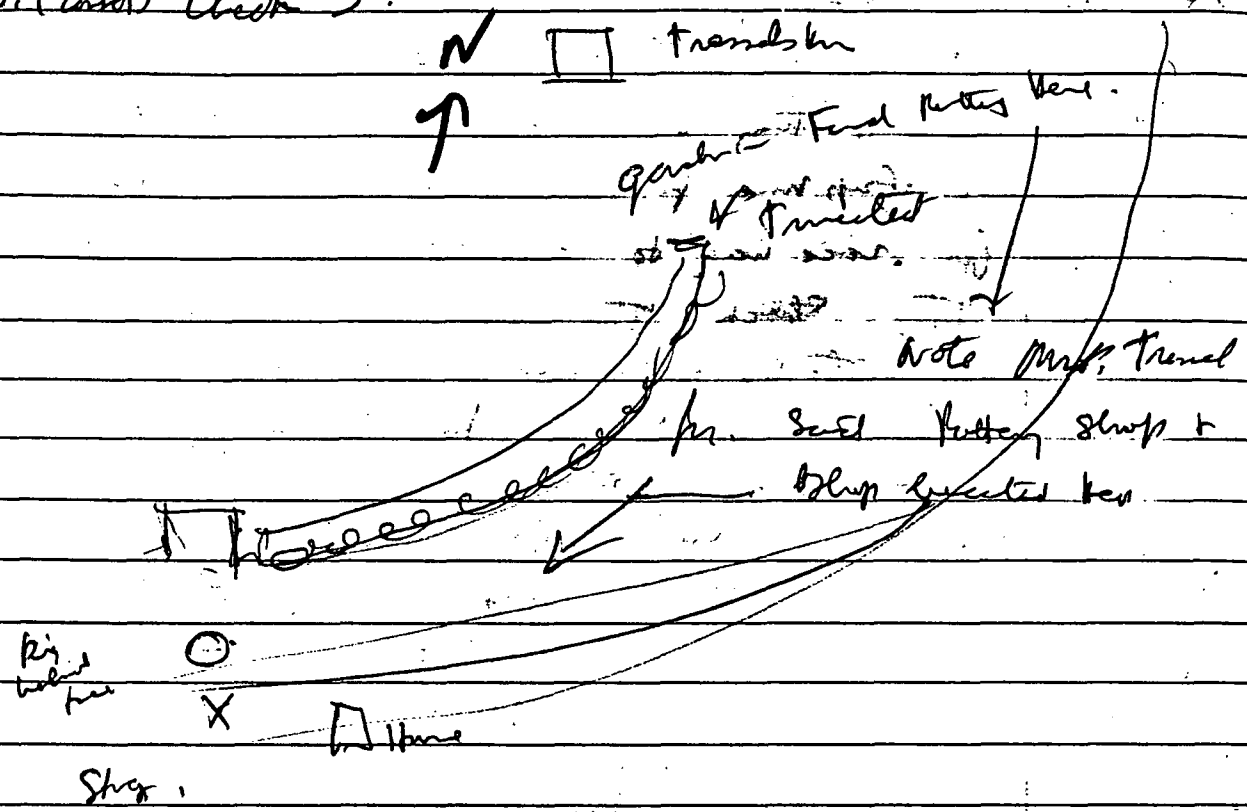


Set in without Cement. and taped by earth bank which probably extends to lake a dam proper. Humbly

Conway 77 Tressel Land R/W

check 3 is Dam — Forge area

3. (contd) Check 3.



C3

DOM

4. I visited Mr. Renner and discussed with him his ideas on certain features not covered to date. (1) the pond on his land called by little " compet. Limestone/ore pit is a dam to provide washing for ore away out of Big Lagoon pit just SW of the furnaces. (2) the "turntable at the end of the lagoon pit back is an axel of a cart (3) he agrees with Sandy that deep pit ore mine just was taken by his father William — Renner he is William — Renner in 1885 is of the Big Lagoon pit. He provided the following hypothesis of the Catoctin Furnace history

C15

I. Original furnace Mid 18th Century located in area of his son-in-law House (? — or is the Son-in-law Tressel ?). Dam are from this come from Auburn pit. Forge and "lake" — dam in operation through

C17

6 May 77 | 4 (Cont'd).

II, Stack I & II set up 3/4 mile to N near Hunting Creek. Ore directly to NW at Wed is stop more fashion. Hunting Creek Harnessed for race way to operate cold air blowers

III, Stack III comes in and ore pit to SW of stacks is worked. The ore scraped on mule carts worked in hand to South and run back to stack III on rail.

IV Stack III & II still get ore from SW pits but fifty high - Kimmel pit opens & new ore is run down by RR. to Hermi, run ore from Kimbal mine finally sold to other furnace in Pa. exclusively.

8 8 May 77 Sunday | 1. Call to John F. FAUTH, Assoc. Prof. SUNY, CORTLAND NY, 13045. 607-555-1212

Hope to Bring down for a few days to review ~~[illegible]~~ new & Geological data

607-756-5222

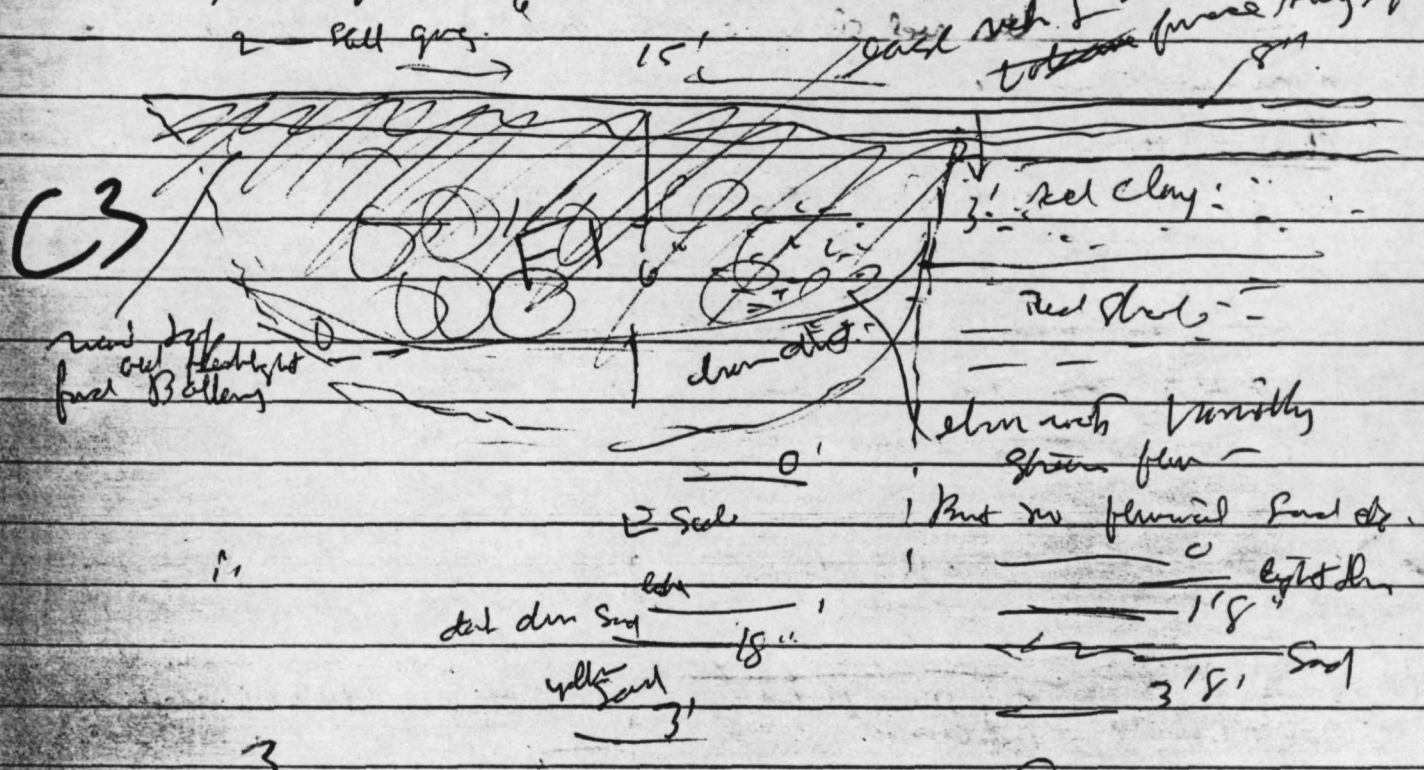
Geology in Middletown area.

May 24. — at Furnace Tuesday May 24th 8:30 write letter

is He will meet me at Furnace 8:30 Tuesday May 29 & spend day with us & then will be in area for several weeks, completing paper on Middletown Geology. I am to send letter confirming 3 days @ $120 day & expenses.

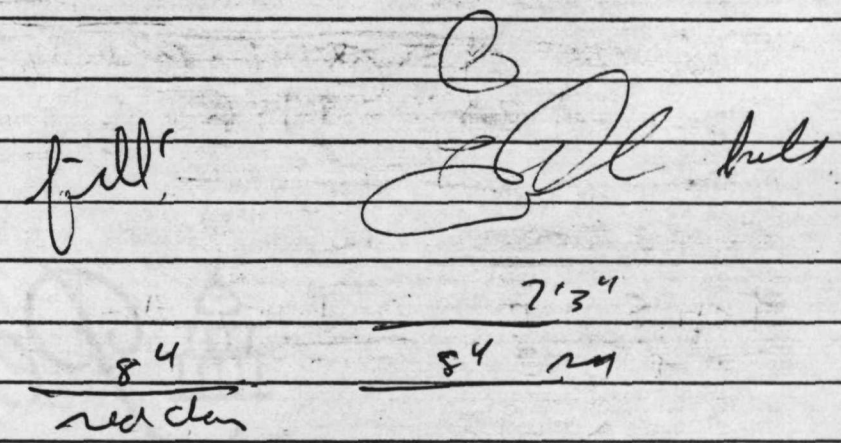
9 May 77, monday - testing with 4 chiggers & Back Hoe.
Check 3

Test 1. Fill area in front of stone wall notch, tested with new first then machines. Ditch 2½' wide.
15' long. N half is 8" below surface to ~~[illegible]~~ [illegible].



Test 3

See over



10 May 77.

Check 3, test 1. the sharp drop of the red clay subsoil into Feature 1 depressions as revealed by Test 1 suggested a deliberate man made cut. However no proposed sides or floor were found such as a "forge house" would produce were found.

Check 3, Test 2. This was located about 10 feet S of test 1 and revealed the same slag fill extending to the South.

38

Where is test 3A (charcoal at 4') ?

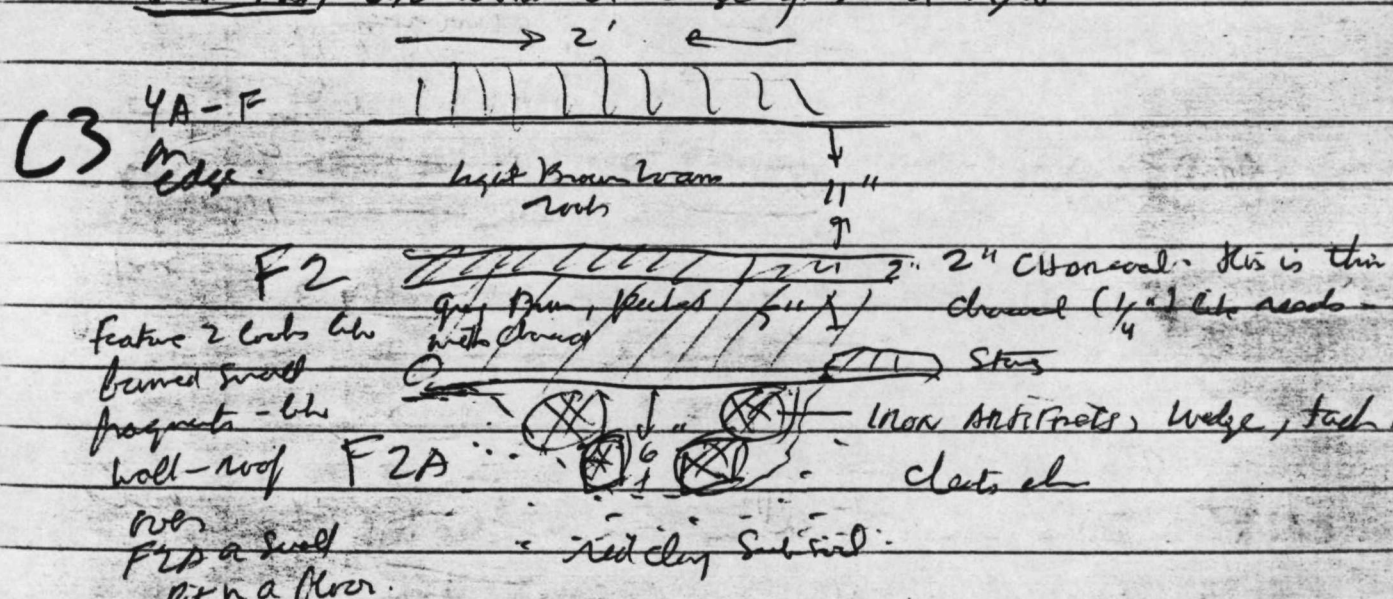
37

10 May 77, Check 3, test 2 (cont'd). This test also dug by the Lock-Hoe did not reach bottom (i.e. red clay sub-soil). Feature 1 continues here

Check 3, test 3, this cut was made by the Lock-Hoe to a depth of 8'4" about 25 feet SW of test 2. It revealed the stratigraphy shown on preceding page. Feature 1 slag fill is right down on the red clay and is overlain by about 3' of stratified sand.

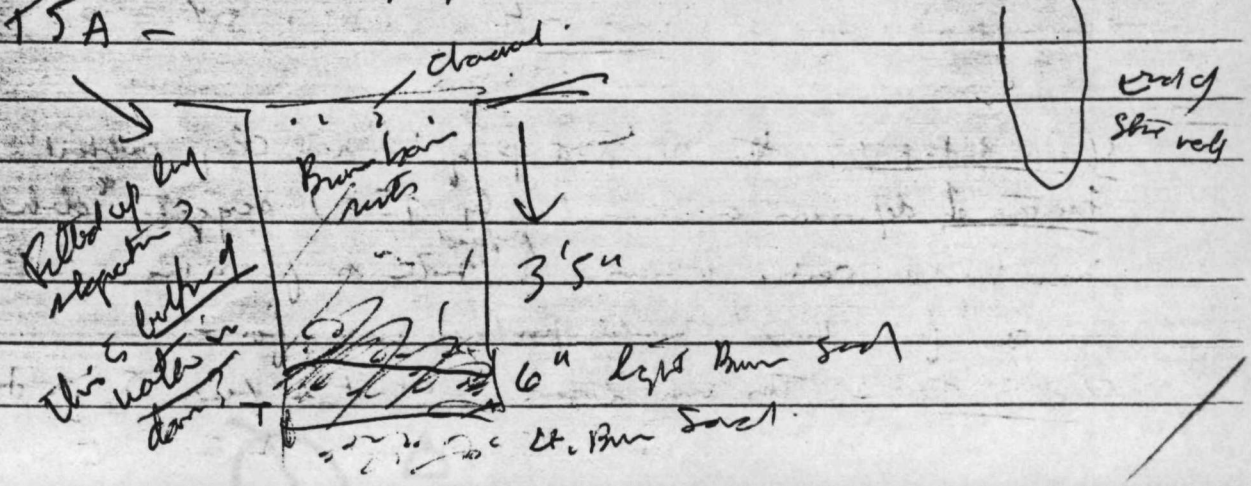
Check 3, test 4, (iron working feature). Located ca. 20' NW of old pillars of Auburn Home entrance. Several pits dug here revealing charcoal, fire brick, slag and iron artifacts — like cleats and wedge

Test 4A, on bank at edge of Road R/W (existing U.S. 15)

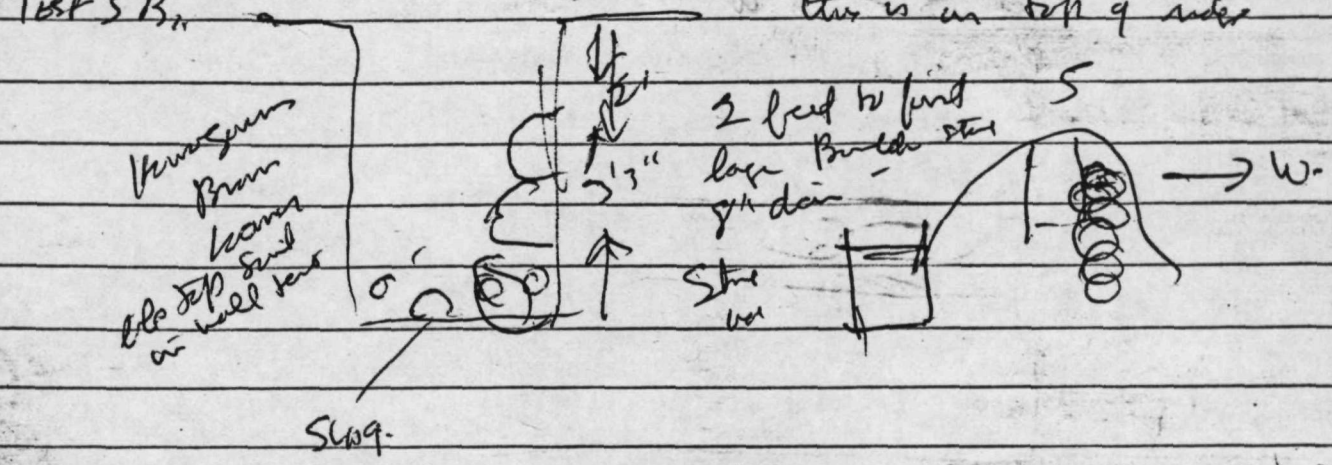


Test 5 A+B — on top of Dam Earth wall, 2 holes 2x1/2

T5A —



Test 5B.



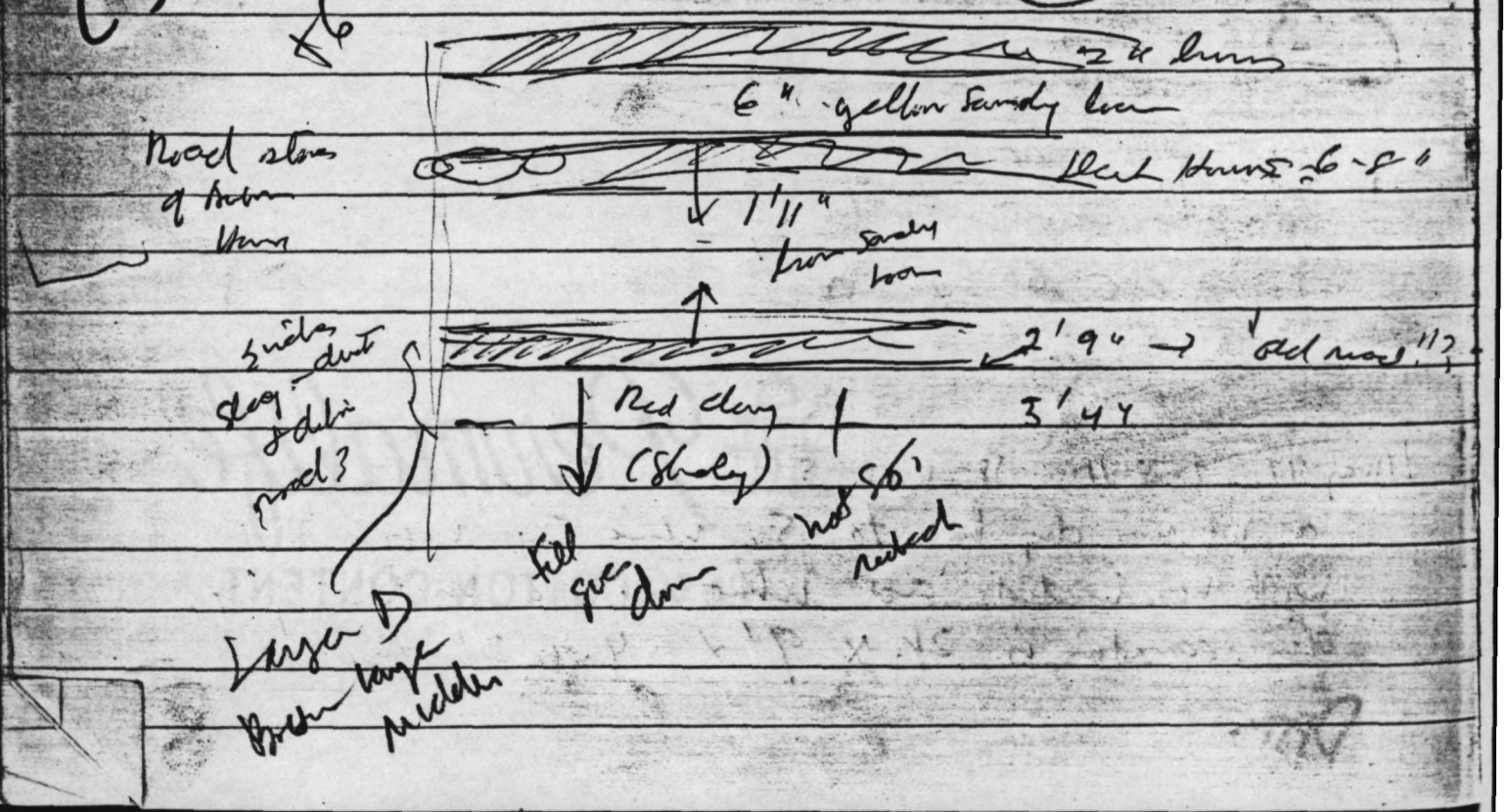
Note on Slag. Big Slag i.e. 8"-12" diameter comes from Big furnaces & is faster — like in Test 3

Little or Small slag 2-4" comes from small furnaces like Feature 2

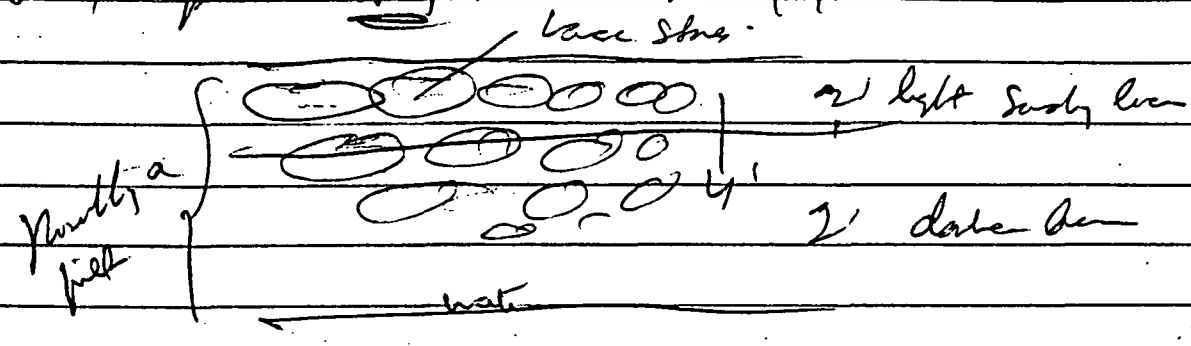
Test 6. about 25' S of E Pillar of Arbor Home Road Dug by Back hoe. this pit is 8½" long, 3'11" wide & 3'6" deep.

See later reproduction

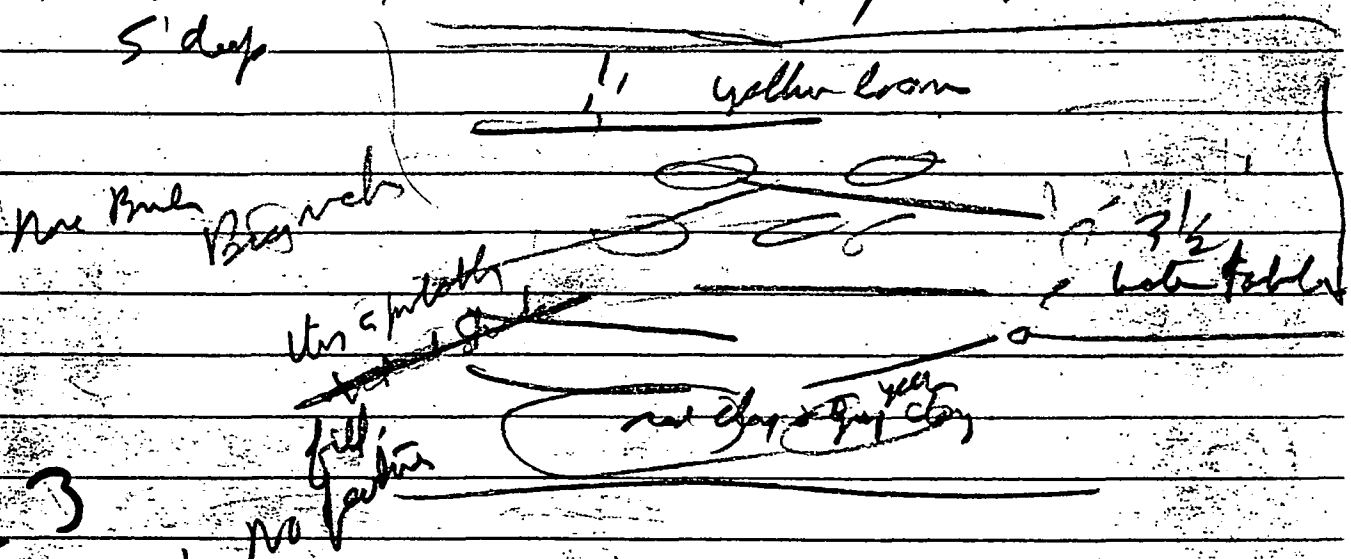
(3



Test 7. 100' SSW of W Road entry pillar. 2' water
Back line trench W to E from old tree. 2 x 10'
& 4' deep. a Spring Pit here plenty of water



Test 8. 6' long hole 2' wide dug by back line.
5' deep



C3

Test 9. 100' South of T2. on edge of terrace TERRACE
a 10' x 2' hole 3' deep. Stone fill consisting
of gravel and brown dirt no artifacts no
significant stratum

11 May 77. test 10 Stone wall, S. side c. 150' W of notch
a pit was dug here to see where the bottom of the
wall was located and what strata underlay it.
this excavation is 2½ x 9' x 4 to 2' deep

DAM

Test 10

Field of Stone Vine covering wall A

Top of wall

not excavated what is Sand also exactly?

40

Profile looking N.
See test on wall top.
(Brown dirt filled with Furnace slag

Dirt

2½'

DAM

C3

14 roughly

no Humus

F3

S'

no Humus

no Humus

old Humus

B

Strata

Strata

C

Slanting down

Red clay

Red clay

Bone of excavation

Red clay & Shale

2½'

D

new Humus

Old Humus Layer B

E

profile

SURFACE

3'8'

roots

roots

Yellow Sand Layer F

Brown Earth fill fill

Red clay

B

C

E

Excavation Bars

no

3'6'

Red clay

∴ Wall was built on Strata B and C

Strata A represented cut into subsoil

B red clay – artifacts.

How far down does it go?

42

contd. test 10 41

11 May 77 Stratum C is fill in old cut and contains small broken stone flecks of charcoal and red clay chunks. If contains piece of rock probably struck from stone wall. other artifacts?

test 3 - S of Creek at edge of Brambles -
Cleared area to reveal "stone walls". dug 12' long

Actually Fresh Road Banks.

CHECK 1 ~~1 to 1½ feet~~ Human very old

Sandy loam - ↓
~~[illegible]~~ natural 4'

C1 ↑

light grey clay ~~[illegible]~~ water level.

test 6. - "old road" fences test

Surface

No artifacts but fill A 10" yellow bar

CHECK 3 Human - Fill B dark soil 14"

Brown soil 2 13 - 15"

Feature 1 MIDDEN 10 Dump area Black slag, artifacts 2"

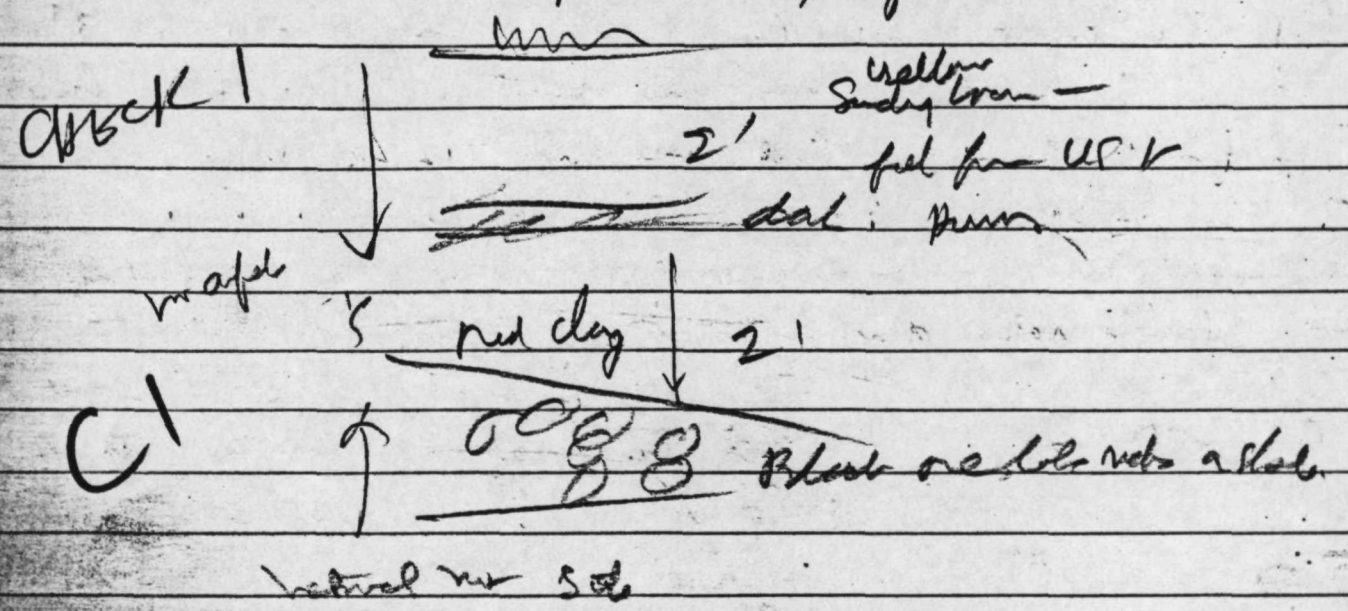
red slag 6"

D 3 brown & slag artifacts 10"

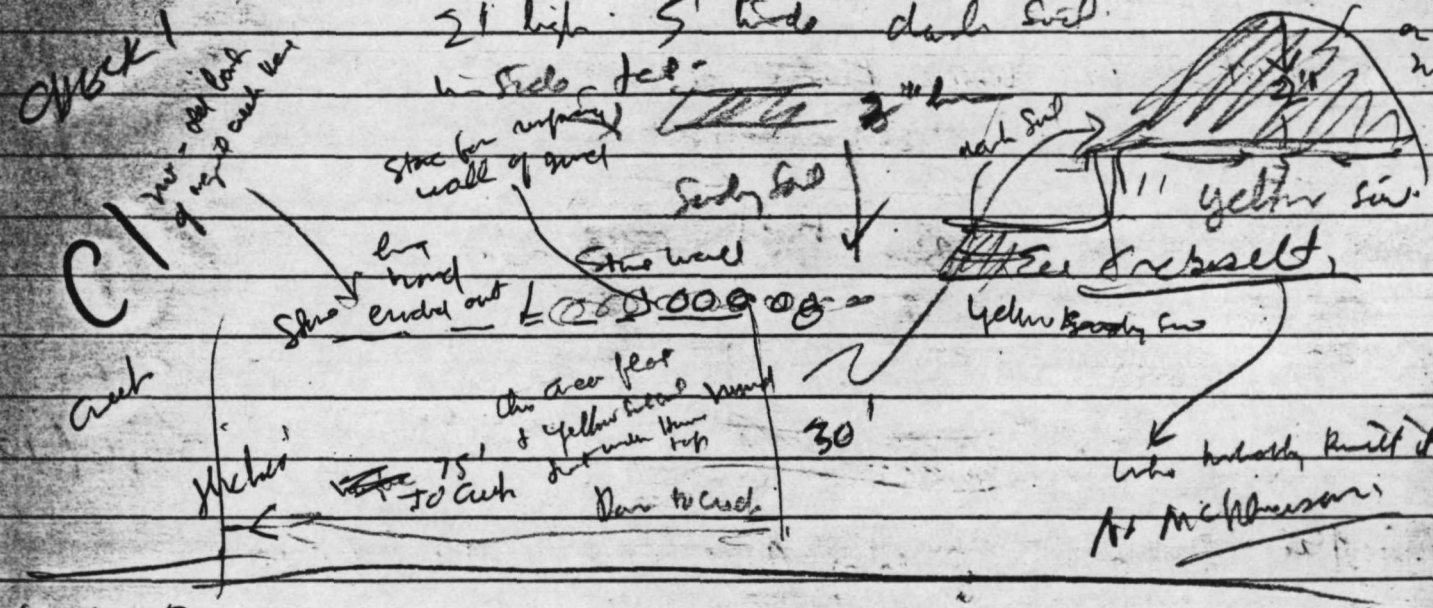
C3 E red clay but with stones, pretty full

11 May 77 (contd.)

test 4. 6' x 2½' by 5' dug by Bob Hee



test 5 - Fish Pond. Dug through embankment
2' high 5' wide dark soil
in side test.



12 May 77.

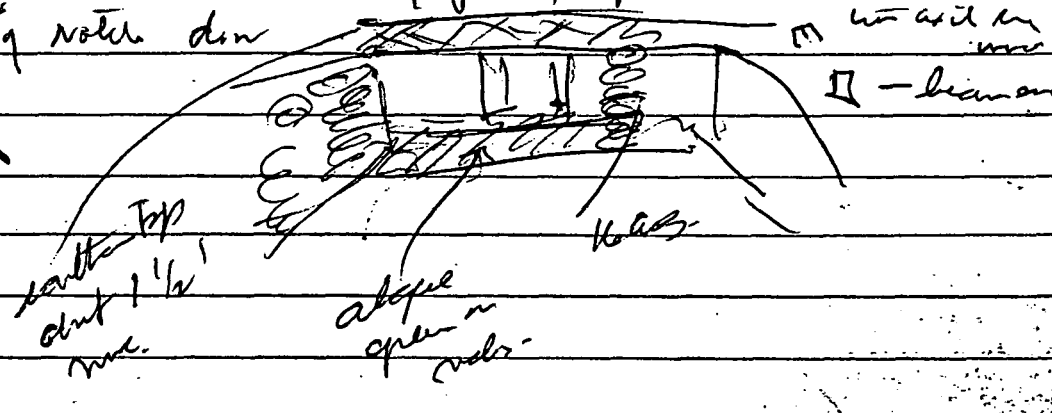
CHECK 1, 18 FR 142. Indian Site (Conrad & Geasey Survey 1975)

Dug 2 shallow tests ea. 2½ by 2 feet 1'-1½ deep.
test 1, completed, test 2 - to be completed.

a layer of quartzite chipps & stone pebbles & fragments on top 0-8" layer - of plowing line. Below this - few any debris. Soil is red hard pan ("Brick Clay")

[illegible] on top of Humus which washed away & deposited pebbles on clay. Plowing ~~changed~~ churned it up to 8" depth.

5/02/77. Check 3, Feature 3, Stone wall & dam. Notch shown here. Board is on a wooden beam, own axial end is 3' to W. looking NW. Line work ~~[illegible]~~ should be done here for further definition. Front here about 12-15' wide, Notch is 2.8' by 1.5 wide by 3' & high. Stones are SS. elast brace metamorphic rock boulders roughly faced, green on rocks shown from base of notch dam

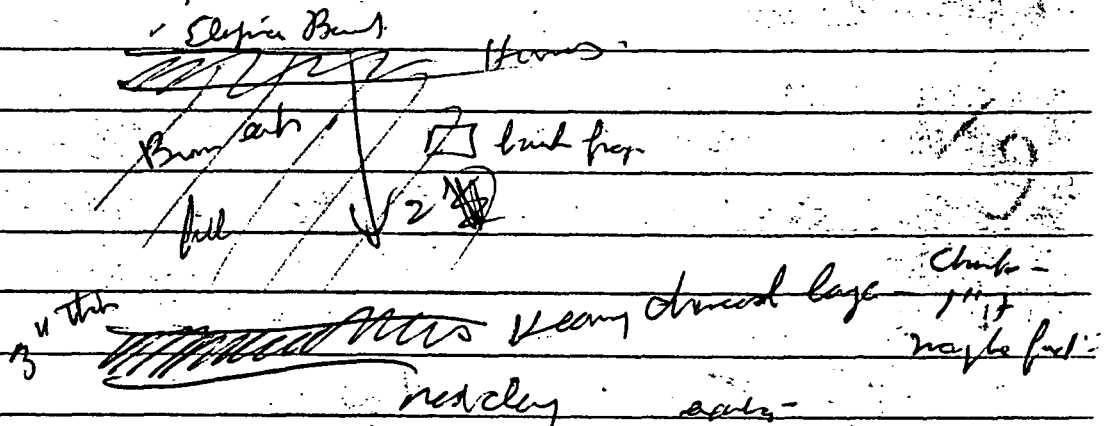


DAM

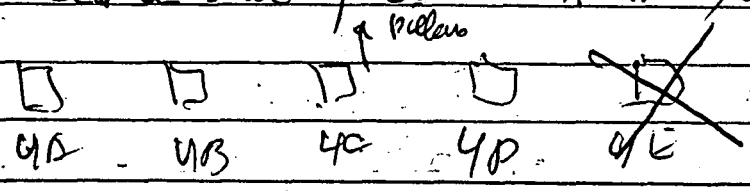
C3

Check 3, Test 10, — Side of F3 stone wall facing dam.

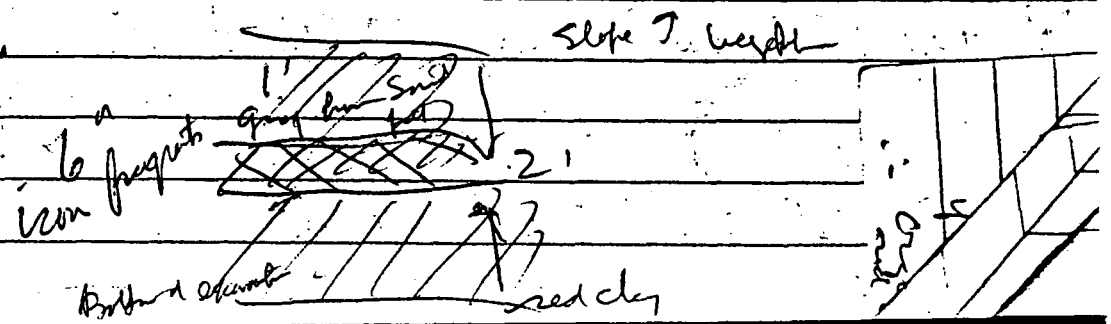
Test 4B — Iron working feature at entrance post (2) to ambient House



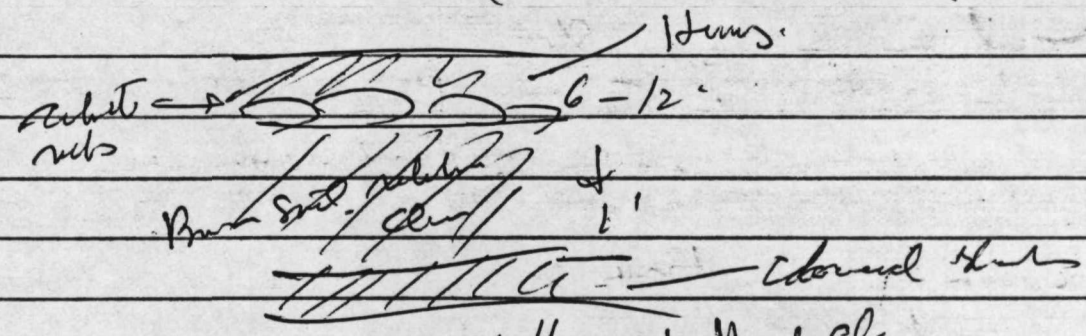
Test 4D. Cut in Side of Bank next to R/W US 15

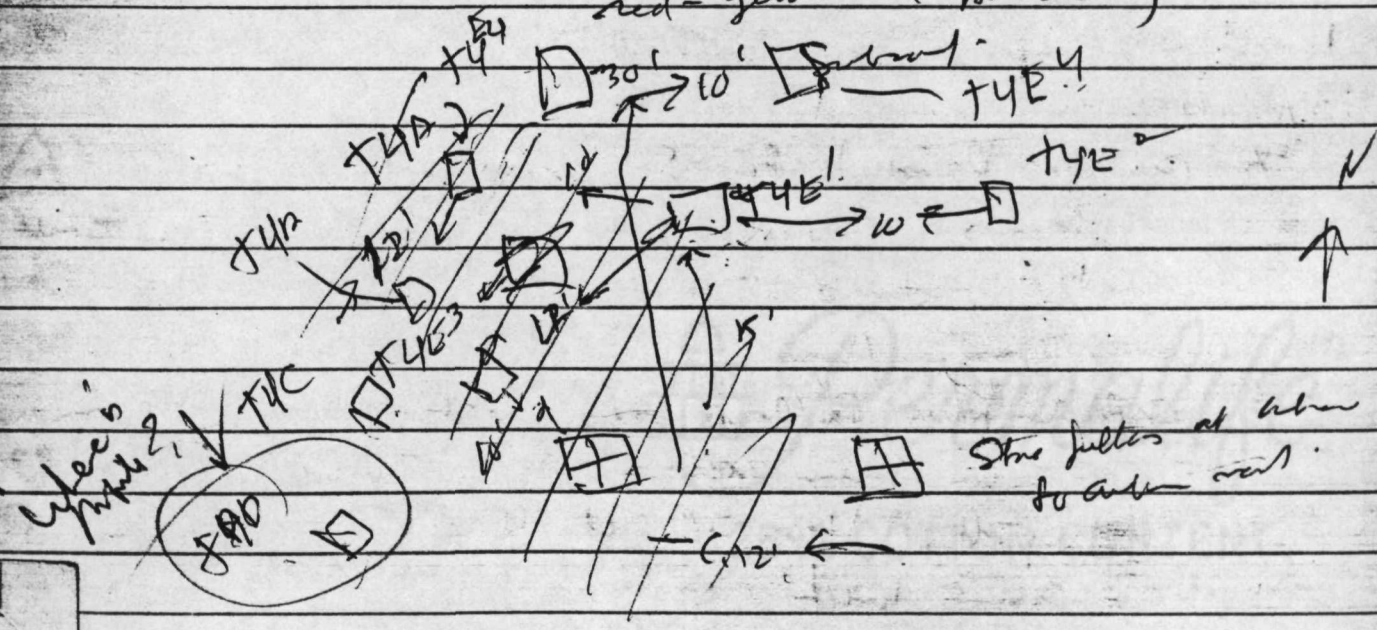


Test 4C.



test 4D (note Rents enormously state 4C — Sarb
Says 4E Strongest cut. This is 4th
& last ditch test. 12
note: 2 test pits 10' apart to N of test 4A
along ditch show little or no material
other than a gritty kind of fill. Some
flecks of charcoal, we are out of [illegible] feature
F2
test 4E 1-6 — this belatedly given to test pit 2 × 2½
in middle of [illegible] road c. 20' NW of entrance
these 5 pits have essentially same profile [illegible] a less
1-5 show road rocks 6-8 1' below surface.
1-3 show in addition layer of charcoal
ca 2" thick located 1' below the road



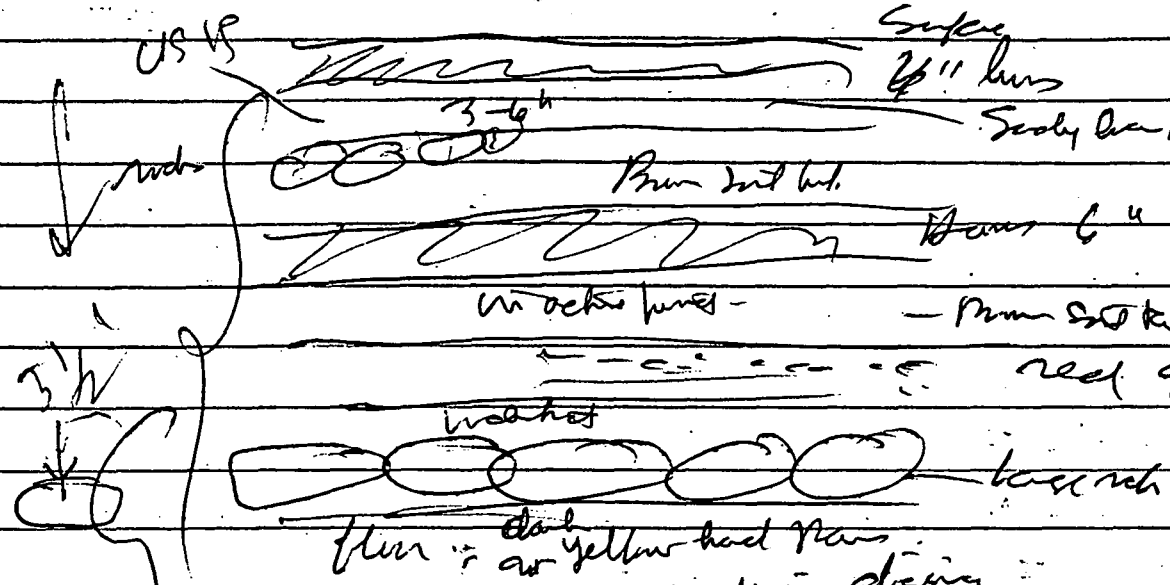


46

mated 15' SW of W Retaining Auburn need enhance

Check 3, test 4 F 4x5x4 3½' deep; Rock floor

45



floor: dark or yellow hard Burns

many iron artifacts brought up in digging of this including grey stone wire jaw lens

iron artifacts in abundance

Slag.

C3

Floor of iron working feature 2.

Same for detailed work later

Check 4. — Both Horn, Spring & wall — short

Photos of area to be mined on by Horn

13 May 77 -

1. Call to David Martin, SHA etc. Dr. FAUTH

301-321-3436 Tues May 24th 8:30 Furnace Catoctin

Begin tuesday?

Bizzy figured

2. Called Mrs. Ballard she talked with Martin who has been advised of FAUTH's Unit

May 24. He will set up drill rig this coming week

NW

13 May 77 -

3. Called HEITE. Who is pleased to come down middle June for a day @ $150 per day — NO expenses.
He is SOPA certified Soc. of Prof. Archaeologist
this will probably be week of June 16.

4. Moved to Fredericksburg, Va.
∴ took this day and Monday 16 May 77 off to move.

17 May 77.

1. Fredericksburg. Questions to consider in evaluating impact of road.
A. Impact of existing highway U.S. 15. and earlier roads
What if (1) destroyed, (2) covered, (3) ignored.
Bath House — Site below notch in wall of dam — one pits. — Burials.

B. How much of archaeological reasons not considered, i.e. little over looked F2 C.3
Non working feature.

2. Called SHD at Fredericksburg — told Mr. [illegible] would be late to meet me at same place last Thursday, $1.85

3.

Zeme McPherson at turn of century up Jil 1907 worked Flint. Follow drops to quarry — big slot again the bank. Big Boulder of flint in old field. ~~[illegible]~~ 1/4 mile back from road — path follow high popular trees
One side forced — Hunter down over drops.

FLINT QUARRY

4. Check 4, the Bath house spring, retaining wall area.
Viewed rows extensions Test 1(A1) exposing flagstone floor of Bathhouse (Feature 1) with wall debris on top located 11 inches below rubble top., And Test 1(B) at NW Corner of House & extending 2' 2" below rubble surface

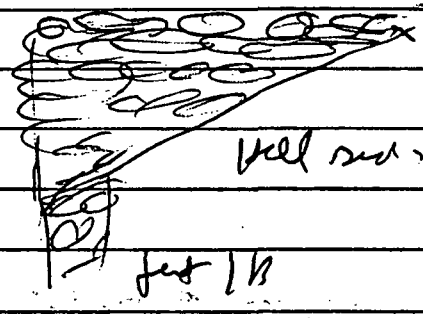
CY

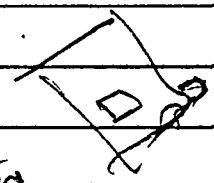
48

42

Pure foundation is 15 inches of 3 courses above rubble ground level. It extends for 7 courses to water table — perhaps further.
Courses are irregular but faced on inside 2 (?) & outside 11

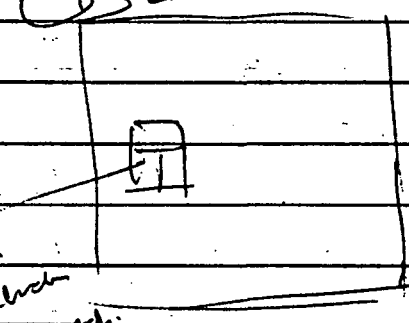
Plaster with white wash found.





CY

wall thickness 1½' where seen flagstaff [illegible]
feet 1B. 2½ x 2½



→ N

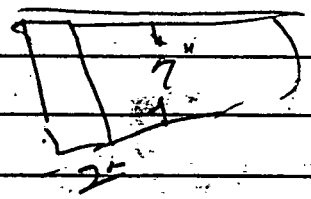
23
5
125

6½ pace [illegible]

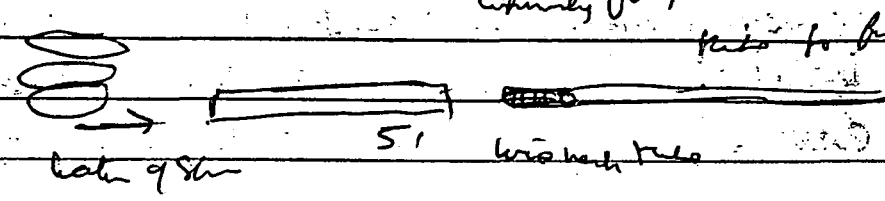
5
2½
10

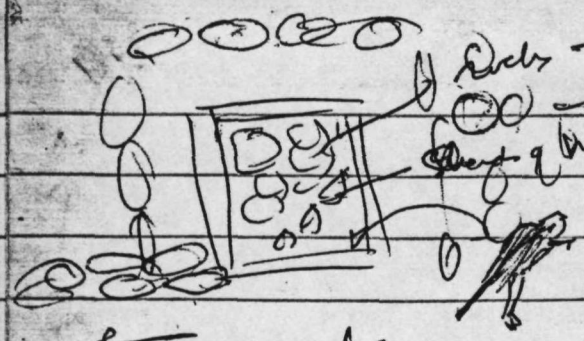
12' square

Stones laid without mortar
Rotted Timber timber fragment

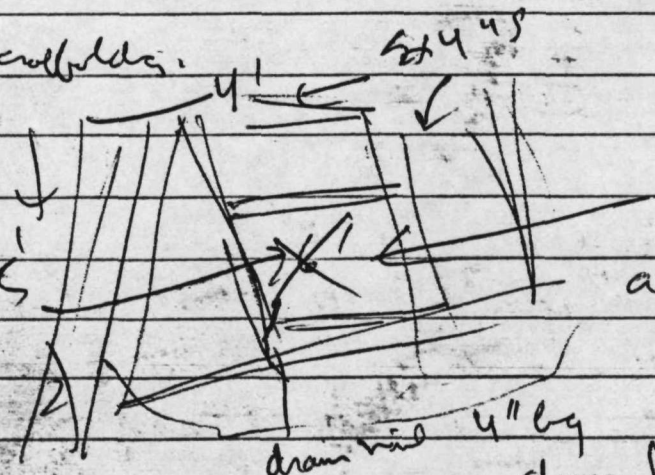


The Spring is still in use. It has a relatively modern 4 x 5' x 1½' cement pore inside a facing of large irregular stones 21 cut on each side (except the front).





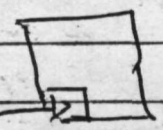
6. the scaffolding.



C4

interpretation

yes — 1 either top of spring — to keep water clean.
one rail is a plywood board 4 x 5



C5

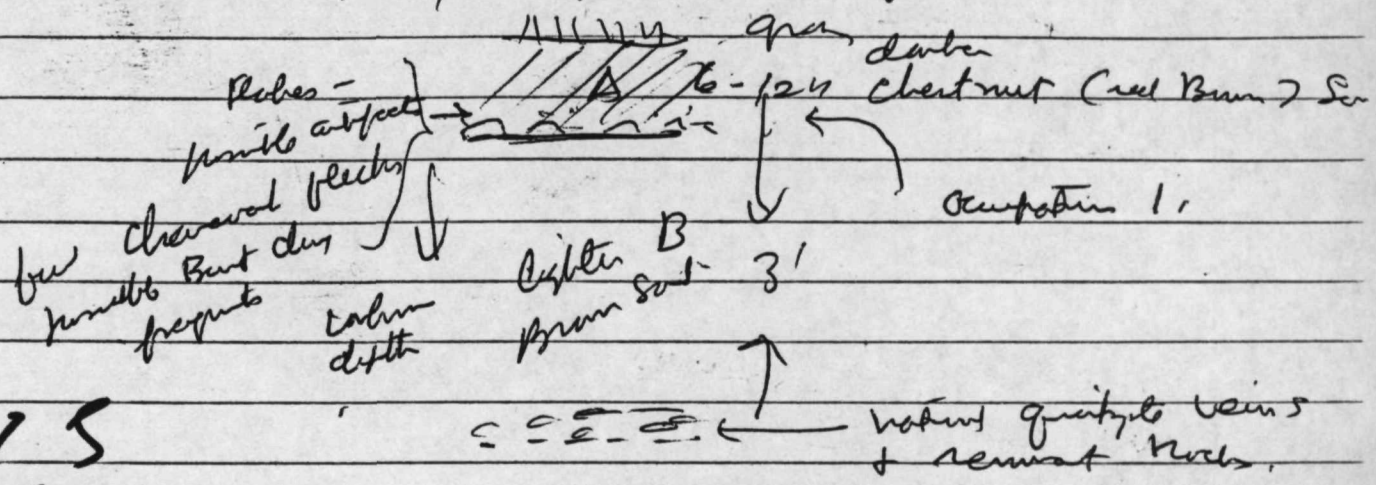
notch to get water

7. test pitted check 5, potential Indian site on Remer property

18 may 77. Wednesday. 1. test pits were placed at intervals of 10-20' into the "chestnut soil" surrounding Remer vegetable garden to west & south west. Remer had reported finding "arrowheads" in his garden ever since he came here some 39 years ago. He had 10 points which I sketched (see 2 may 77) and photographed (17 may 77). the points indicate ~~an~~ archaic period occupations with several types including a "fish tail" and fluted lanceolate (small) points, which suggest earlier periods. 10 test pits roughly 2½' square were put down in the soft soil.

8 May 77, Wednesday 1. (Contd).

A typical profile of the pits was as follows:

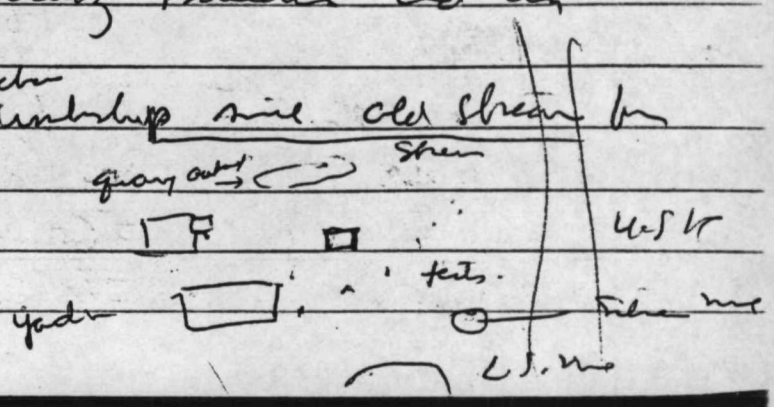


LS

The Zone A area had been planned earlier by Renner (and others, and some Brown glazed pottery sherds (inside glazed) (2 sherds) were found along with a fragment of coal. A Quartzite "chopper" - with battered edge was found and flakes. Most of the debris was rock fragments which might be accounted for as debris in the working of rocks - from the 2 nearby "mines" (Cherty 6) "silver mine" and 7, "limestone mine" or from Indian quartz and flint working.

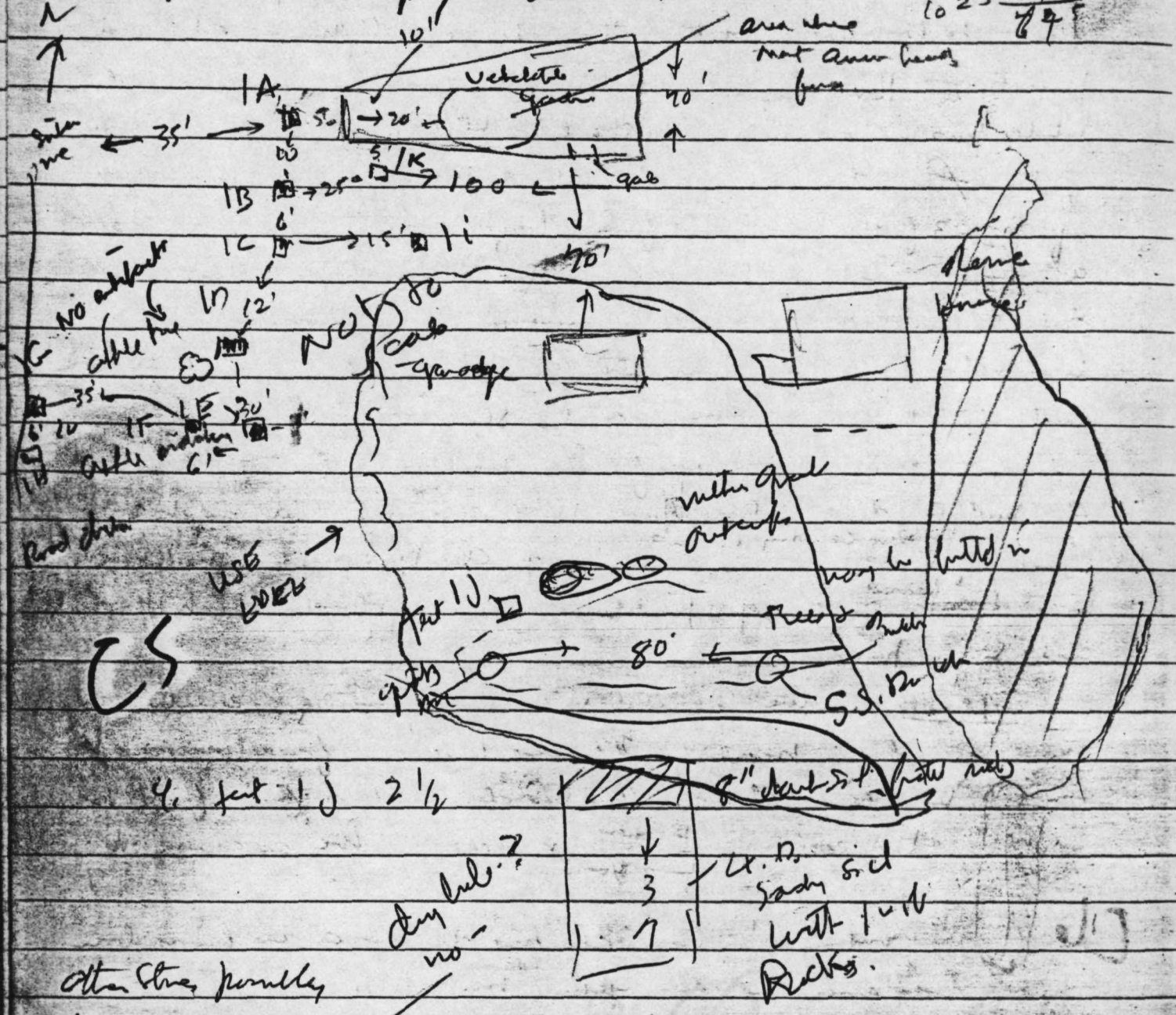
Renner indicated that McPherson had a "flint quarry 1/4 mile west and had left a large mound of debris. The "flint" was sent to _____ to be made into China Pottery. About 300' South of Renner garage, ~~[illegible]~~ are ~~flint~~ working Quartz Boulders and an outcrop of "flint".

∴ A good place for an Indian workshop since old stream for spring flows near by



2.5 / 14 / 100 / 25 / 50 | 2.5 / 2.5 / 120 / 50 | 14 / 2.5 / 70 / 28 / 350 | 13 / 2.5 / 55 / 16 / 215 | 2.5 / 12 / 50 / 25 / 200 | 2.5 / 4 / 160 | 2.5 / 6 / 150 | 2.5 / 5 / 125 | 41 / 25 / 205 / 82 / 1025 | 27 / 2.5 / 135 / 54 / 675 | 50

18 May 77. 2. Map of Check 5, Nerve Site.



Other stones possibly chipped out in gathering at Quartz Flats

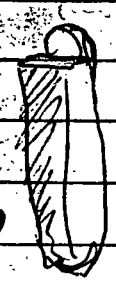
2 large mother Quartz flakes, one could be Chopper-Blade
See pencil sketch this page

∴ Quartz Quarry Site located ____' South of Nerve garage.

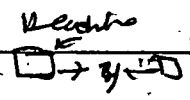
52 18 May 77 cont'd. 51

3. CHECK 6. Burial ground. This area reported by Renner to be just ~~East~~ of the "Limestone" mine and on his property. Renner reported excavating the lower limbs of a skeleton while pursuing a "polecat" (Skunk) which had seize a chicken of his. The digging was done about 30 years ago to a depth of 2½ - 3 feet. Later he found boys excavating a grave near a stone thought to be a bread stone. He stopped them. Earlier rows of field stones "used as grave markers" were noted by Renner in the area designated. Renner further indicated this was known as the Slave Cemetery where slaves used in the early furnace work were buried, a mulatto died of small pox. He lived on the hill and was buried in the Slave Cemetery (when?) after a considerable time of decomposition. The area was ~~known~~ feared as one of pestilence for typhoid, black plague and small pox.

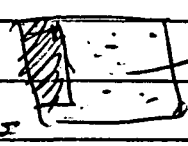
Explanation: We started with the partially excavated area near a stone measuring 2" and with a faced surface

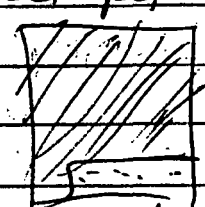


Headstone. Another stone has discovered a few feet to the east



. We excavated to about 3½' through chestnut soil — a red brown loam and encountered a yellow mixed soil which was a hard pan presumed subsoil. The first pit test 1 was about 2½' square the depressed zone in the yellow soil found out to be a grave containing to date a very small individual, a baby. This was identified and the shovel left in situ for more detailed excavation.





A Breed cutter demolished the site of

foliage and revealed 1/2 dry or so more stone.
We were visited by Mrs. MacIntyre and Mrs. Cantwell of the Catoctin Historical Society who probably got wind of the finds through Mr. Renner who accompanied them.
4. I also visited the next site, a pond or ore mine with my freeman Jerry & Cater Mr. Martin who with Paul ——— of SDA Baltimore came to discuss plans for drilling.

19 May 77 — 1. Measured of R/W for Burial Grd Area.
175' ~~2.5 | 175.0~~ 70 to Burial 1 — Road.
175

2.75
50
13750

Map. 2.75 56
2.5
280
112
1400

Say 140 feet from existing Road
edge. 56 Paces
2.5 | 140.0
125
150

24

2. Test 1. Mr. Renner showed us an area which had been dug in by Boys to a depth of less than a foot. It was marked by a Grandstone 1'10" long by 4" x 6" with one side "faced" as follows.

It was an ordinary rounded oblong boulder of greyish step stone. About 2' to the East was an unusual slab measuring 1'4" x 8" x 2" which may have served as a foot stone. The Grave was 4 1/2' deep and test was dug 2 1/2' wide and 5 1/2' long. Skeletal remains of a small child were found at the bottom of an oval pit measuring ——— dug into the yellow Hand pan sub-soil under 2 1/2' of Chestnut Brown Loam Soil. The child was an estimated 2-3 years of age. Perhaps somewhat younger the teeth had come through. Small Square nails measuring about 1 1/2" in bed were found suggesting a burial in former

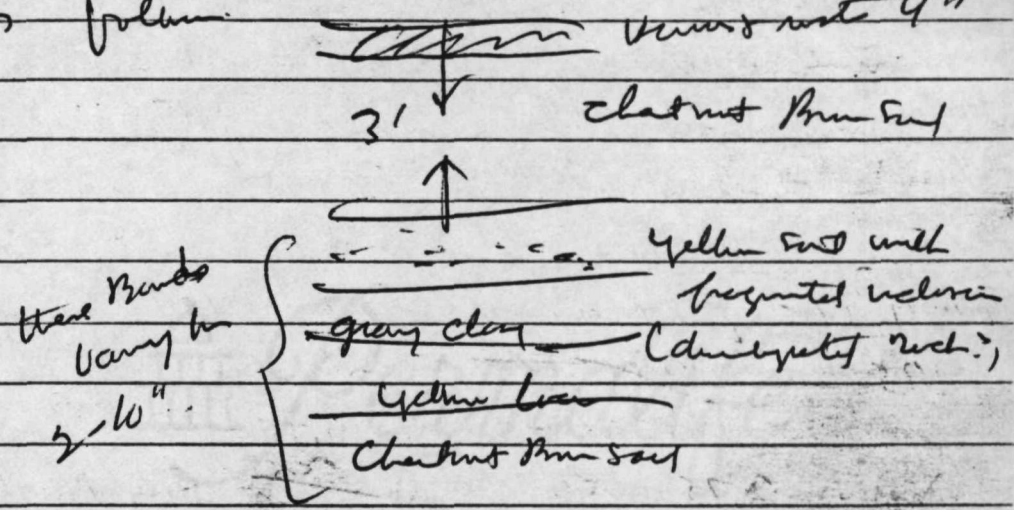
54

53

19 May 77 (cont'd) 2

which had since disappeared. the remains were placed in a plastic bag with a brown bag over them and returned to the grave which was filled in and the pavement replaced.

the stratigraphy of the grave which is probably common for the area is as follows



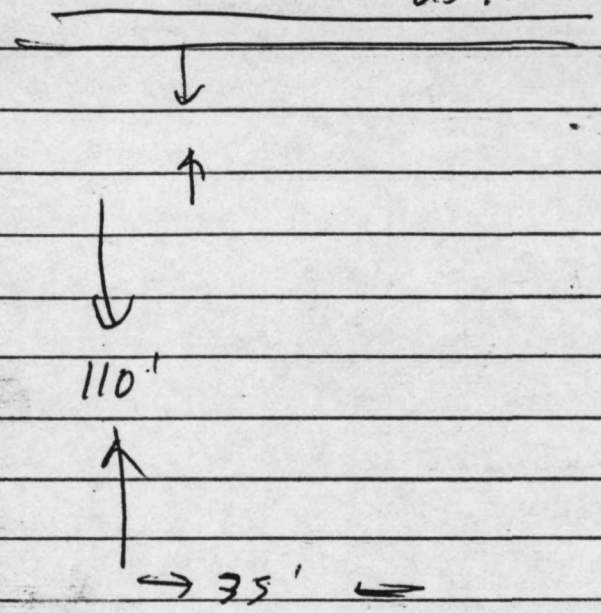
C6

Nowen noted banded soil at his garage also. is Burial occurs here from 3-4 or so feet under ground - with chestnut brown mottle the top layer and graves proper in banded soils.

3. test 2. a soft area containing loose soil and (at top) charred black bath & other materials was photographed this is a problematical feature which should be further explored. It measures approximately 5' square and contains rocks in the fill and on the South. Possibly a shack foundation?

4. test 3. a semi circle of rocks and a soft area - said by Nowen to be a wood chuck hole containing a rock. a problematical feature requiring further investigation area 10' & 8'.

5. General observation US 15.



C6

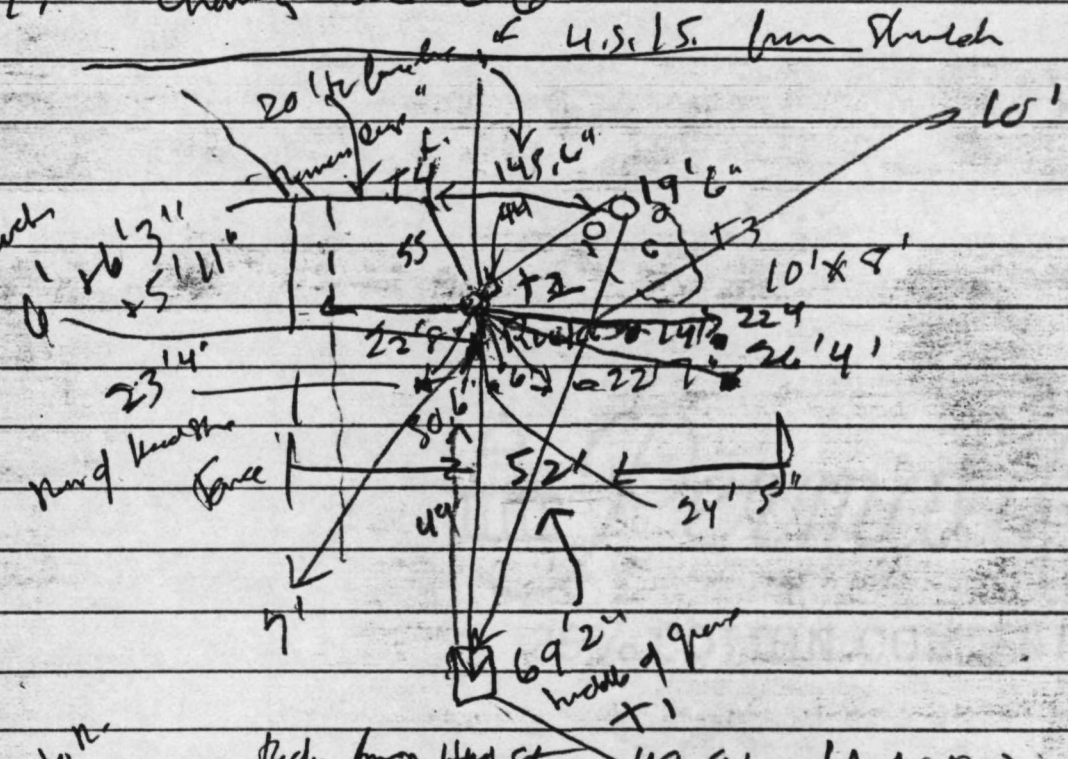
48
25
225
90
1125

14
25
70
28
350

54

20 May 77. — Chaining Site C6

1.



C6

Head Stone
near (2) 8 4' & to R.
(32) 1 5'
(1) 14'3

Rocks from Head Stone
Row of 3 headstones
to R 26'4"
25'4"
28 6'
39 44.

49 9' Lt 20 D
43
44'9' 50'
45 4.
45
48

52 6'

Chain rocks near +2

20 May 77 1 (Cont'd.)

after chaining the site we filled in the tests and proceeded to Check 7, the Earl Carter Cantor Home and area west of the retaining wall at Catoctin Furnace.

∴ Re. Check 6. This is a burial ground of head & foot stone rows probably the cemetery of the poor miners or even "slaves" — though this is not a foregone conclusion.

Cf note: Keys to rented car lost. Rangers give ticket. & write explaining matter on their advice to Maryland Park Service, Towers Building, Cumberland. 22 May 77.

Cre-dirty	5	2
B. Hoe	10	4
Hwy.	12	6

22 May 77. Sunday.

45 / 18 / 27 — 20 / 6 / 14

Total	Summary of work to go		Rt Cond.	P.S.	I.S.	L	R
45	27	Me — 18 (Shipping 13 & 16 for mining)	3	5	27	5	5
20	14	Rem — 6	2	2	12	2	2
12	4	Hand Crew — 8			12		
10	6	Back Hoe — 4			10		
5	5	Shill crew — 0			5		

(23 May 77, Monday)

Call Frederick SHA — no Hand crew for Mon-Tues. Tentative for Wednesday

Call Bullard. ~~I~~ Tell of Heite 1 day extra at $150 + Cont (35 + Travel

Call Heite arrange day of visit.

Call Martin — check for Tuesday. 24 May 77 meeting.

June 10, is 10 days before end.

Bullard Cont'd. ## need Hand crew for 1. other Cemetery on US15 R/W

need Back hoe for. Probably need this 6 days

2. Foundation above Hunting creek.

Shill How much charged to date? Retro graph.

3. other Foundations at Earl Carter's place.

need geologist for final O.K.

Would like: 1. Shill at retention wall on Stony Mtn

2. 1 Shill at each Hand. one more

4.

23 May 77, Monday.

1. Call SHA 663-6185 carried out for Monday & Tuesday would like the crew Wednesday 25 May. Left above message at 7:10 a.m.

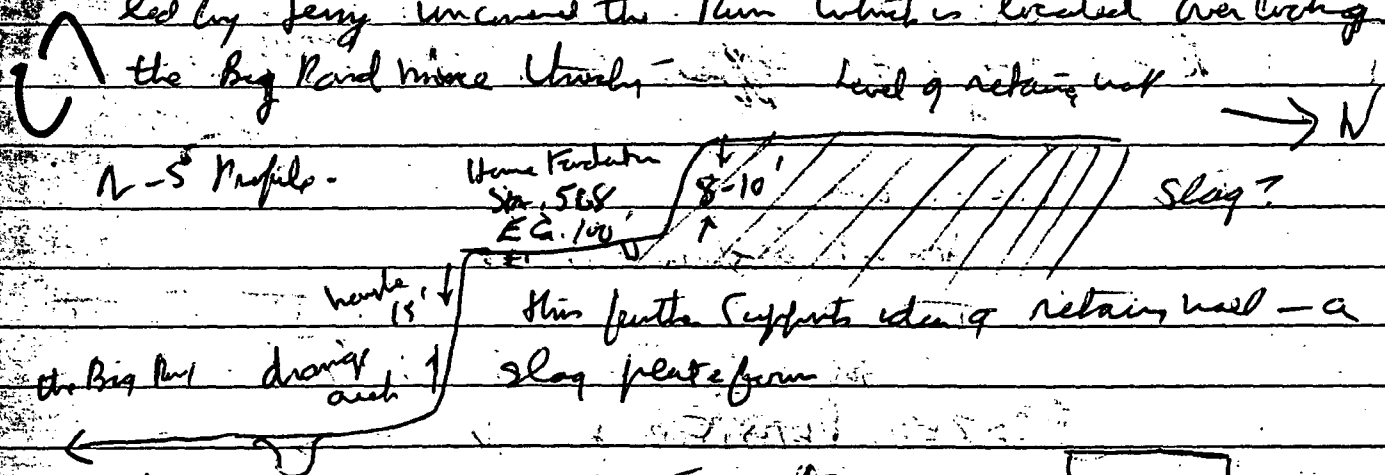
2. Call Ballard. Contact 301-383-6899. She will call Martin re my supposed call last Friday. Now has my new address, will send format for receipts & certs submission. O.K. to use SHA facilities beyond O.K'd number of days. If Service gal in Trench (if problem) will visit next week.

3. Call Fauth to confirm tomorrow, Mrs. Fauth yes she will be at Catoctin Furnace tomorrow morning 8:30
607-756-5222

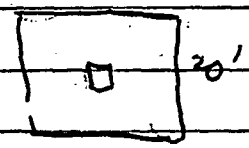
24 May 77, Tuesday.

1. Arrived 8:20 at Catoctin Furnace. No Fauth yet. revisited scene of Car Key loss of last Friday and also check 7, the Earl Carter Home Foundation.

2. Check 7, the Earl ~~Carter~~ CARTY Home. This is located within the easement and probably R/W. the SHA team of 4 diggers led by Jerry uncovered the Run which is located overlooking the Big Pond mine Utrecht — level of retaining wall



the Foundation was about 20' Square



58

Remember! talking

57

Rant Log. Concerned with weather weather Board
"Flurbag" Carty (John) Earl was his Son
W. Side of road

Fault. 2 fits near furnace site — in references
ore — Kubel — ore — & ore for point. red.
mention — what was the rear ore?
F — Jim Ra. & Wheeler — Lumpy, Lumpy Hematite
ore. nodular masses — irregular shaped fragment —
(Some pyrite — or Pseudomorphic pyrite — but this
not the ore & mixed with clay.

Faults & mention

M — Quartz & magnetite & Hematite.
F — Specular Hematite not the primary ore.
M — Quartz used as a flux. Coke as well as
lime stone.
F — main ore was
Enclosed between clastic rock antefern Quartzite
& lime stone (tow tow stone on west side.)
with thick elements of clay. Water Chemistry
acid — lime stone — precipitation.
R — Not a it coffee ore. Washed/dust on
of it

Dump. main ore

George & Anna
Joseph T. Singewald Jr.
1911 Iron ores of Maryland Vol IX Part III
John Hopkins Mass. Dec. 1911. Vol
FRAZER, PERSIFOR Jr. Report of Progress in
Curbs of York, Adams, Cumberland, Franklin.
1877, Harrisburg.
2nd Geological Survey of Pa

Jose Se. & Stone 1946 Frederick
Geology a Co.
in md. County reports book
Frederick & Carroll reports

Long slot from Big Pond ... 500' x 100' wide.
(Single wall & another) 300 x 150

R – Raceway on top of Bank, 20' or deeper.
center of lane & bank of W side
old road on top of Slag. Toll Road.
Open till 1961
Inf. Survey old Quadrangle maps.
R – Toll road E-W. Slag put in 80 inch thin
road – replace creek road.

R. ~~[illegible]~~
2 veins of ore – 8-10' wide
Brown dirt with Boulders. Bunch of Boulders
laying in silt, & sand, Clay usually.
Kirkel pit has natives.
F – (Why iron veins here?)
Localized by water permeating through phyllite
& sandstone encounting limestone.
Harpers formation – but continuous no
calcite reducing rock.
Antenna. Antenna not continuous –
Limestone Frederick –
Fault? If it really exists as continuous
feature – water percolate down road
Limestone adjacent to Harper – continuous
or not.
Fault not necessary for origin of iron
very central deposition.

Fault & remove

M – Channel road of Lillie not same as Nerny

F – 2 big pits N 20 E (a W.)

R – Trench the old Channel road

F – Ore piece

R – Old mine pit N of Channel road not
tacked by new road which comes
at this point

R. Wasn't found – took one out first
Had dear in line – R. need to move.

F. Lime stone – fringe benefit only

R – Crime formation L.S. better – Fredericks
Clergy

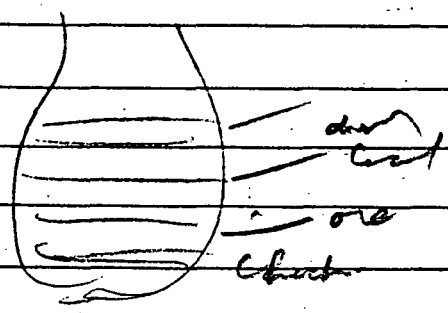
M – (Looking over Samples)

F. Kimbel mine – L.S. outcrops (Bingwald 1911

R – Joseph E Shoop, [illegible]
Hebrew Sheet 3 about 1901-03,

R. Excavating a dump – 12 hours each carting
Seems to Coal ?

Fourth & Nine



we put the along,

Singewald, Jr. Joseph T. Report on the iron ores of Maryland. Vol IX, Pt. III Md. Geol. Econ. Survey Elec. 4

Kimbel mine — analysis of ore — ore picked without waste

195-196

L.S. encountered.

∴ Same setup — Broad cut no problem

Where is wood.

F — What is problem of cave ups.

Chronology of mining techniques.

mining methods changed

"This site of diabase give a better rel. of ore to surrounding rocks, but not serious impediment by new wood."

Limestone barrier to devel. of ore.

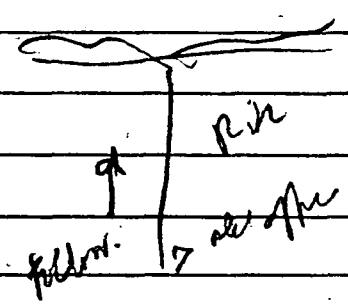
F ~~Ore~~ drill might ~~[illegible]~~ be used at points where limestone is recorded.

Use drill to find rel. of L.S. to ore & fault.

Q: Rel. of talc schist to ore potential — historically interesting.

Procedure — should never go back here

define.



C16

F Drill — at L.S. spot should help relationships of L.S. to ore & help understand why mines are where they are.

Perspectives of hom. —

Cert. wrong Geol. to answer — are we below or not ore deposit modifiable by fault.

ultimate question what causes iron mine —

M. Back Hoe than identify feature then identify drill point.

∴ We visit the site and find out that road is not right next to mine but removed by 1/8 mile. Safely outside of R/W

Limestone rock:

alluvial + colluvial (delivered by gravity) form limestone bottoms from ordovician, grove formation (maybe Frederick). C

Find of from F yellow formation it is.

Fault

Steel a rare outcrop — only limestone exposure between here + the mountains — a few in field.

(Isopropyl Science needs protection)

Private Quarry — ~~for~~

∴ ask locals for details.

∴ Get data from family a thing "Private limestone quarry" — Have mud etc.

Non Salvage Operation — i.e. getting information depth of cut — method of Quarrying.

Gardner Iron ore pit:

Visited with Mrs. Gardner Hunsin — She said there was a second pit ~~[illegible]~~ behind the Barn.

Silver mine.

62

Drillings agreed with Martin & Faith

1. Augur drillings of Charcoal Road — to explore bearing probable Pit.

(Have.) Log of Augur boring along 4.5.18.

(Have.) Ball — borrowing at retaining wall

2. 2 drillings at race Pond.

3. Big Pond Bottom probings.

1 Side drilling.

4. Small pond.

1 drilling in dry bottom.

5. Race Pond.

2 drilling ledge

Pit evaluation from Auburn to Race pond — Charcoal.

F. 3 points x bart

x middle

x W.F.

~~Summary~~. Dr. Faith lent me a Geological Vol. on Catastrophic Pits by Singewald Jr. 1911 to be returned at desk of Cozy Hotel Thursday morning. He will turn in receipts and vouchers at that time for first days work. He will be coming back & forth from Gettysburg to Frederick until third week in June. We agree on $120/day, 12¢ mile for local transportation (not from Concord to Gettysburg) & lodgings for the 3 nights. He is interested in application of Geology to Political problems & feels that data will give depth to Geological Study

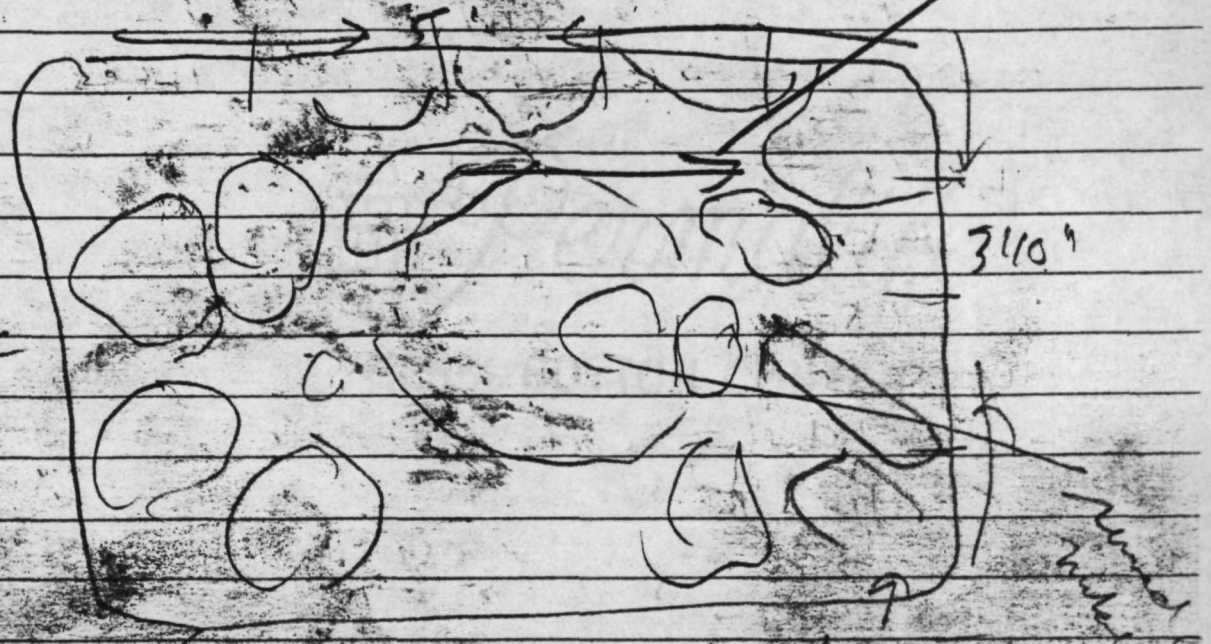
Faith

64

63 this area dated to Salmon

25 May 77

Check 3. Stone Floor ca 3'3" below surface



J4F

C3

Rock pebbles 3" thick

Large stream pebbles & boulders

5" charcoal speckled top 3"

Sleeping chopped rock & Salmon Back are from here

RED CLAY

YELLOW Clay

dark Brown Sand with charcoal flecks

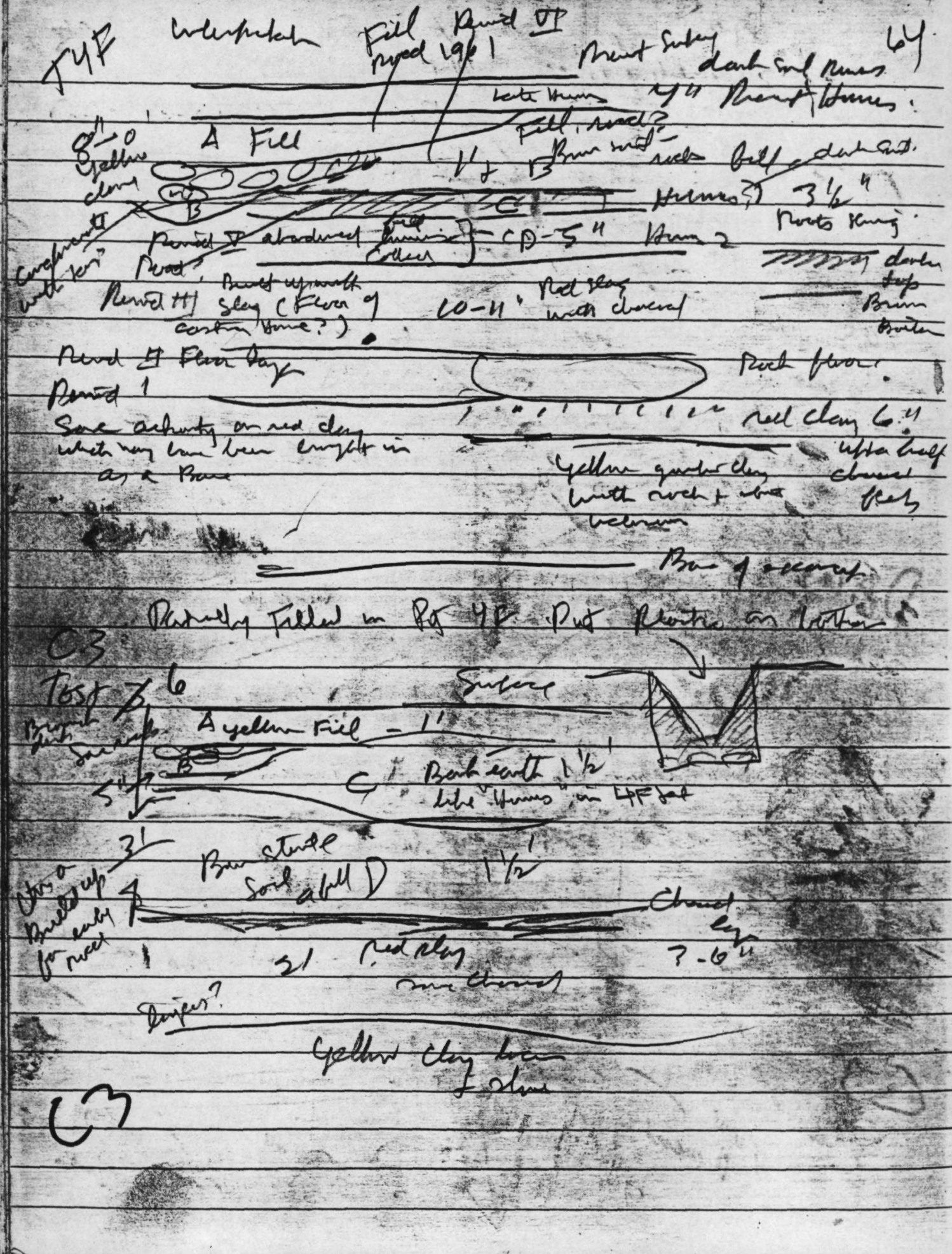
red-yellow clay with Stone inclusions, probably Salmon

Rocks

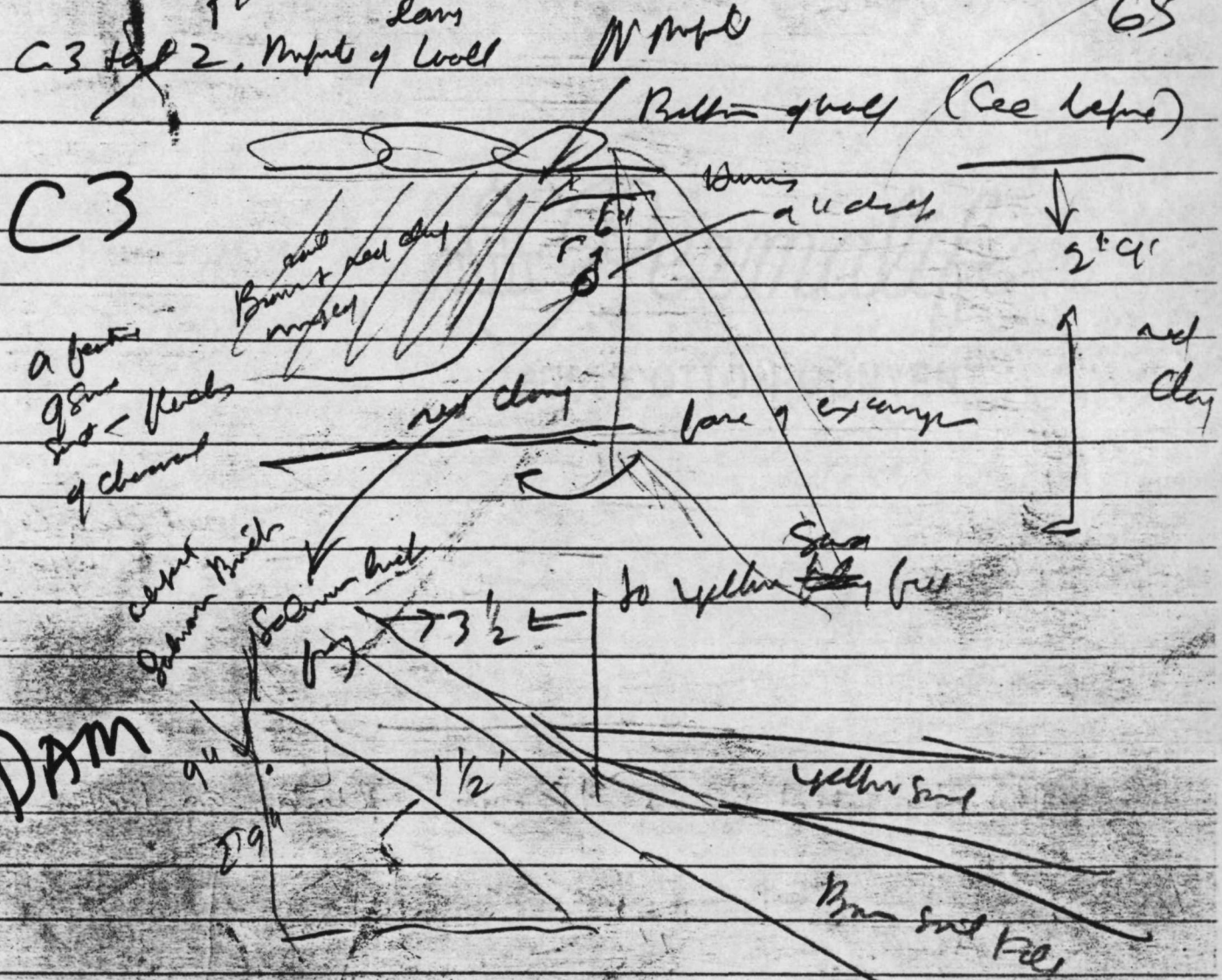
Salmon?

Salmon

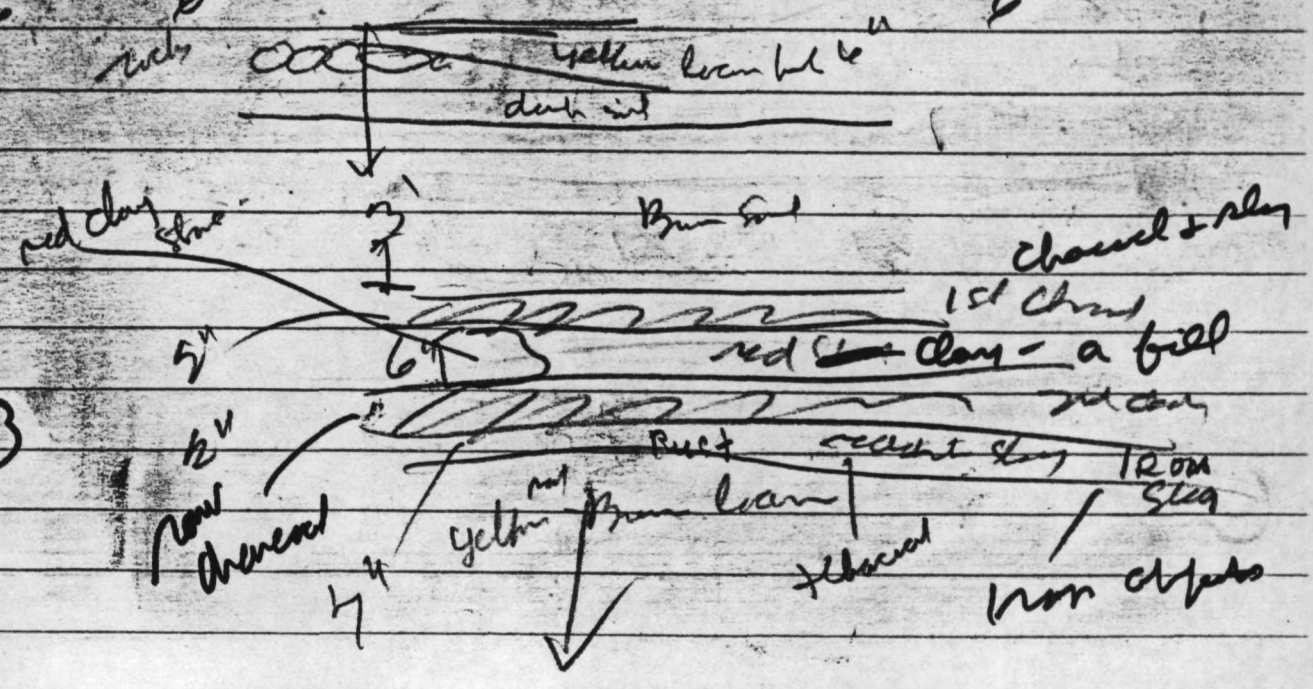
Base of excavation


T4F
Interpretation
Fill
Period VI
Period 1961
Present Surface
dark soil Homes
64
Late Homes
4" Present Homes
A Fill
Fill, road?
Brown soil
rocks
fill
dark soil
Homes?
3½"
Roots
Period V abandoned
Collect
CD-5"
Home 2
Period III
Built up with slag (Floor of Cast Home?)
10-11"
Red slag with charcoal
Brown Boiler
Period II Floor layer
Rock floor
Period 1
Some activity on red clay which may have been brought in as a Base
red clay 6"
upper half charcoal flecks
Yellow gravel clay with rock + [illegible]
Base of excavation
Partially Filled in Pit 4F Put Plastic on bottom
C3
Test 6
Surface
A yellow Fill - 1'
Bark earth 1½'
like "Homes" in 4F Set
5"
3'
Brown stone soil a fill D
1½'
Charcoal layer
3-6"
Red clay
some charcoal
Dripes?
Yellow clay loam + stone
C3

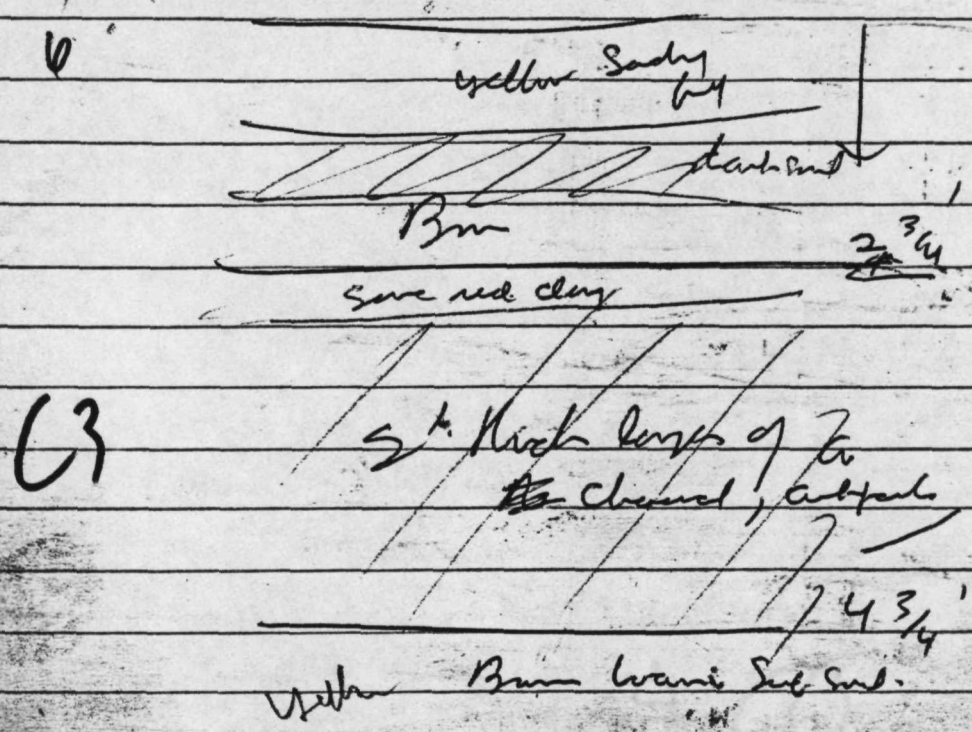
C3 ~~test~~ 2. Profile of Wall



C3 + defining lower layer at test a (S 2' hole



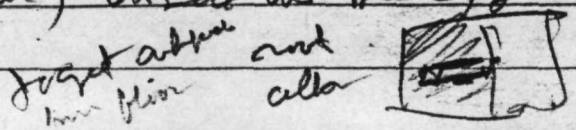
C3
test 6 5/25/77 66
test 3 D.N 2' Square



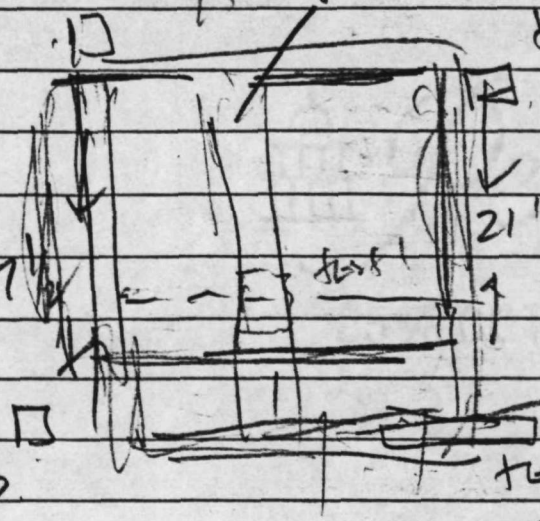
I worked with 2 men (Sherm & Bruce) on Check 3 and finished the work for the time being. There will be revisited by Dr. Heite on his visit later.

We were then joined by Jerry & 2 more men. Jerry and I check out the "Paint Shop" identified by Roman. Both Jerry and I judge these remains — largely Brick — of Furnace type Slag Fusion due to great heat on one side & be 300-350' from the road and thus outside the R/W. How can I prove this —? need transit and Rod to read distances.

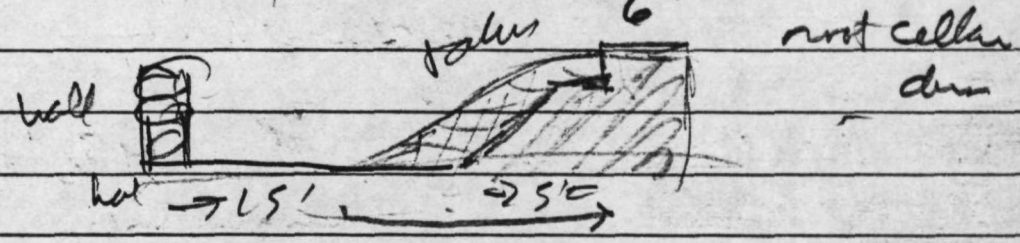
We then refined to Check 7 the Carty house and assign the crew to test pits (they worked on those actually when we were checking the Paint House) inside the House, & along the ridge



5/25/77 Check ?? test 4 2.5 6 150 test 1 2.5 7 175 test 2 8.5 2.5 425 170 2125 6



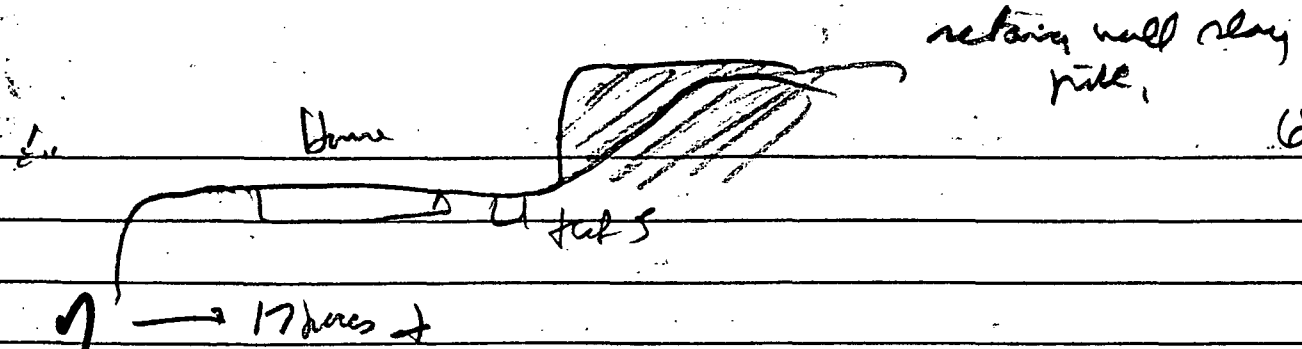
C7 test 3



Artifacts. Blue Kimberly wave.
Crock Brown outside — white inside
Glass Button
Salmon red brick 8½ x 4 x 2½
∴ late 18th century early 19th century residence
animal bone
foundation at N end about 1' of Stone 3 cm. at
S end about 3-4'

Test pits reveal about 8-10" Humus then what appears
to be yellow Humid pea with iron nodules
gotten rocks.

From edge of ravine on S to ~~[illegible]~~
slag buried up at N is — ft
test — Shows slag coming in



Test 5 at base of slag talus 2' slag
large rocks some fossil + bubbly
Test 6 20' south of T5

SINGEWALD, JR. JOSEPH T. Deposit on the Iron Ores of Maryland Md. Geological + Economic Survey. Vol. IX, Part III, the John Hopkins Press Baltimore, Md. Dec. 1911.

P146. Alexander writing in 1840 gives account obtained from James Johnson of Baltimore, descendent of original Catoctin Furnace Builders

"original furnace built in 1774 by James Johnson & Co. within a mile of the present furnace stack, and carried on successfully until 1787, in which year the same company erected the present furnace about 3/4 of a mile further up Little Hunting Creek and nearer the ore banks, this was operated by James Johnson & Co until 1793 etc. ... "the yield of the old furnace was 12 to 18 tons per week, and that of the present about the same, the ore is brown hematite containing in cavities more or less phosphate of iron (Sic) It has been represented to me as expensive to raise and the quality of the metal not of first grade. In the ore is associated carbonate of zinc.

P. 147 ... the Catoctin Mt. Iron Co. was formed (1888) which lasted until 1892. A PAINT MILL was erected and operated for several years during this time, producing blue, red, and yellow ocre from the banks north of the furnace (Fitzhugh-Kimball Ore mine) which are in operation at the present time (1911

SINGEWALD

C14

Singewald Jr. (cont'd) 1911

P194 "Limonite worked at 3 points — back of the old furnaces, a little over a mile North of the furnaces, and half a mile south of the furnaces site back of Dr. McPherson's House (Auburn) At the present time only the deposit North of the furnace is being worked.

Description of Ore bank one mile North of furnace. P195–199

P199. Ore Banks Back of Catoctin furnace. "Back of the old furnace site is an opening 300' by 125' striking N 20°E. Since the topography slopes to the east, the west wall of the Bank is 30' and the east 15' deep. The sides are washed down and no ore is exposed except where prospect holes were put down in the summer of 1908. These show ore on both the east and west faces and in the bottom. An opening at the south end shows shale.

Singewald

One hundred yards South of this opening is another 500' long and 100 to 150' wide also striking N 20°E. At the south end it is 15' deep and at the North end deeper but filled with water to within 15' of the top.

The geologic position of these openings is the same as those one mile to the North.

P199. Ore Bank one-half mile South of the furnace. "There is an old opening 1/2 mile South of the furnace back of Dr. McPherson's House. It is 300' x 200' and strikes N 20°E. Its present depth is 20'. In the centre of the opening is a large mass that was not removed. The overlying soil has washed down so that only a portion of the east side is exposed, showing a ledge of limestone

18

Singewald Jr. 1911 (cont'd).

201.

Note: for Checks 8 & 9 abutive quarries

"Discontinuity of the Catoctin Ore Deposits – It was formerly thought that the deposits along this fault plane were continuous, but prospecting during the summer of 1908 between this opening and those at the furnace showed that this is not the case. A large number of prospect holes were put down between these openings. Most of them did not go below the hill wash, so that they were of no value. A few that did failed to reveal any ore, showing that the deposits occur in isolated pockets along the fault."

Singewald

201. [South furnace complex] "the Bank back of Jr. McPherson's house was opened in 1774 by James Johnson & Co and the ore smelted in a furnace erected on the property

Chronology of Catoctin Furnace. P146 1770. LEONARD CALVERT & THOMAS JOHNSON

1774 – [Auburn House ore pit & Furnace on property] James Johnson & Co.
1787 – Present furnace on little Hunting creek
1820 – BLACKFORD & THORNBERG
Later – McPherson & Brien
1844 – Peregrine Fitzhugh
1860 – John KUNKLE
1855 – Catoctin Iron Co. (Hiers & Kunkle)
1857 – receivers
1858 – Catoctin Mt. Iron Co.
1899 – Blue Mountain Iron & Steel Co.
Feb 1903 – Shut down
1905. JOSEPH THROPP of Earlston Pa. who began mining (continued to present writing 1911), Furnace torn down at Catoctin (#3) Ore shipped to Pa

1793 THOMAS & BAKER JOHNSON
1793–1803 – BAKER JOHNSON rents to BENJAMIN BLACKFORD.
1803 WILLOUGHBY & THOMAS MAYBERRY
TO 1820 – WILLOUGHBY MAYBERRY

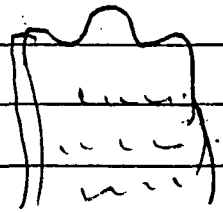
72 5/26/77, Thursday. 71

Check 10, Stoneless Cemetery. Located about 1½ miles N of Milos Putman

1. Mr. Van Fossen (milk farmer) — Property belonged to Leatherman. Mrs Van Fossen has book by Rev. Holcroft (Baltimore) on old cemeteries. Used to be stones — but these were taken up when the other strip built (1960).

2. Visited small cemetery on land of Van FOSSEN about 300' S and 130' in from old U.S. 15 road. 7 Burials "Henry Fundenburg died 1836 age 47" and others mainly "Fundenburgs". "Relatives come to cemetery" from time to time" (Mr. Van Fossen).

Closeness of Burials natural?



Slabs 2' High. Thin.

C10

3. Visited Mrs. Leatherman — Bodies & tombstones removed a little after road 1960-61 & before to old Methodist church (now not used) Lewistown. Powell in charge of grounds. Bodies removed by family to that point. Mr. Leatherman knows strong 70 years old.

∴ closed Check 10 operations until combs. Check this out. The new road cleared a lot of Bush mining scattered small stone — are depressed areas about 6' long & 2' wide from which Body probably taken etc.

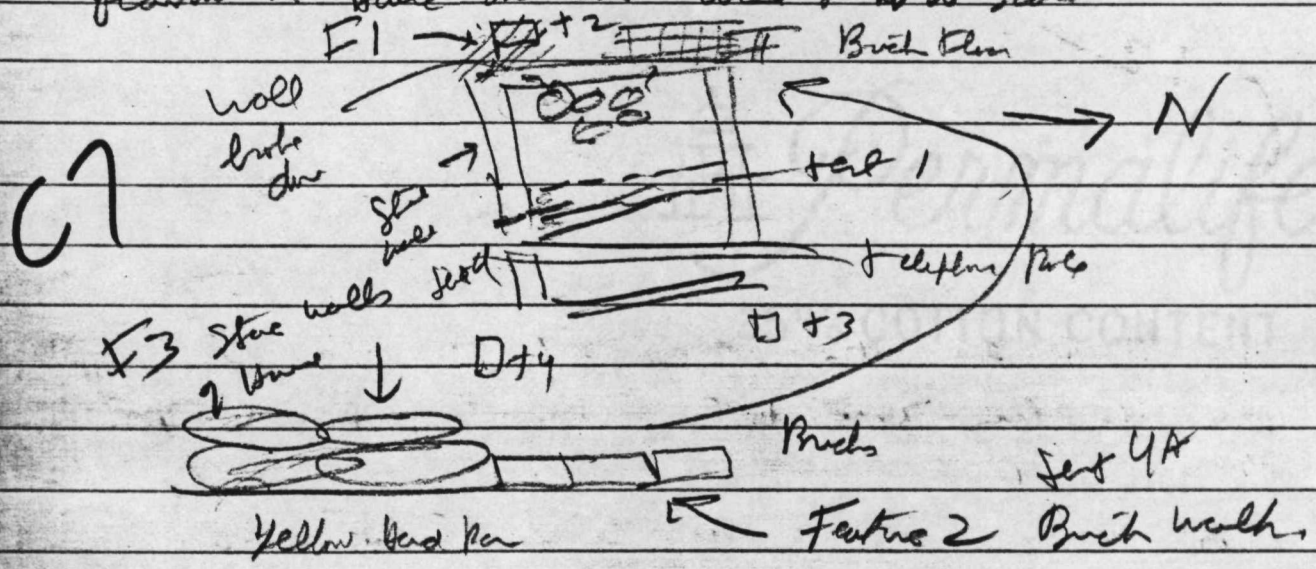
4. Revisited Check 7, Early House and defined Nunnite and cross section better. Took picture of C7T1.

Feature 1 — a concentration of artifacts, including

4, 5/26/77, Check 7 (Contd).

Buttons, glass marble, thin window panes, thin fine porcelain plate with gilted edges (French late 18th century?), crucks white on one side, dark brown on other, and square nail etc. Feature 1 was a middle which probably increased to the west which goes off rapidly down hill.

Feature 2 is an area of Brick walk which flanks the House on the West & NW Side



C7

To Salvage this Ruin need:

1. Excavate interior of House
2. Excavate Exterior of House including middle, walk.
3. Excavate other features including Outhouse, Identify garden, Sheds etc. back

C11

Check 11. Little Hunting Creek. 11A South side of creek - Intake tube and Valve (dam) 11B. North side. Intake dam outside of R/W. Overflow ditch is with R/W [illegible] wall as stone wall. 11B Stone walls. Some debris on [illegible] side R/W. Most of remaining Pond will be under

74

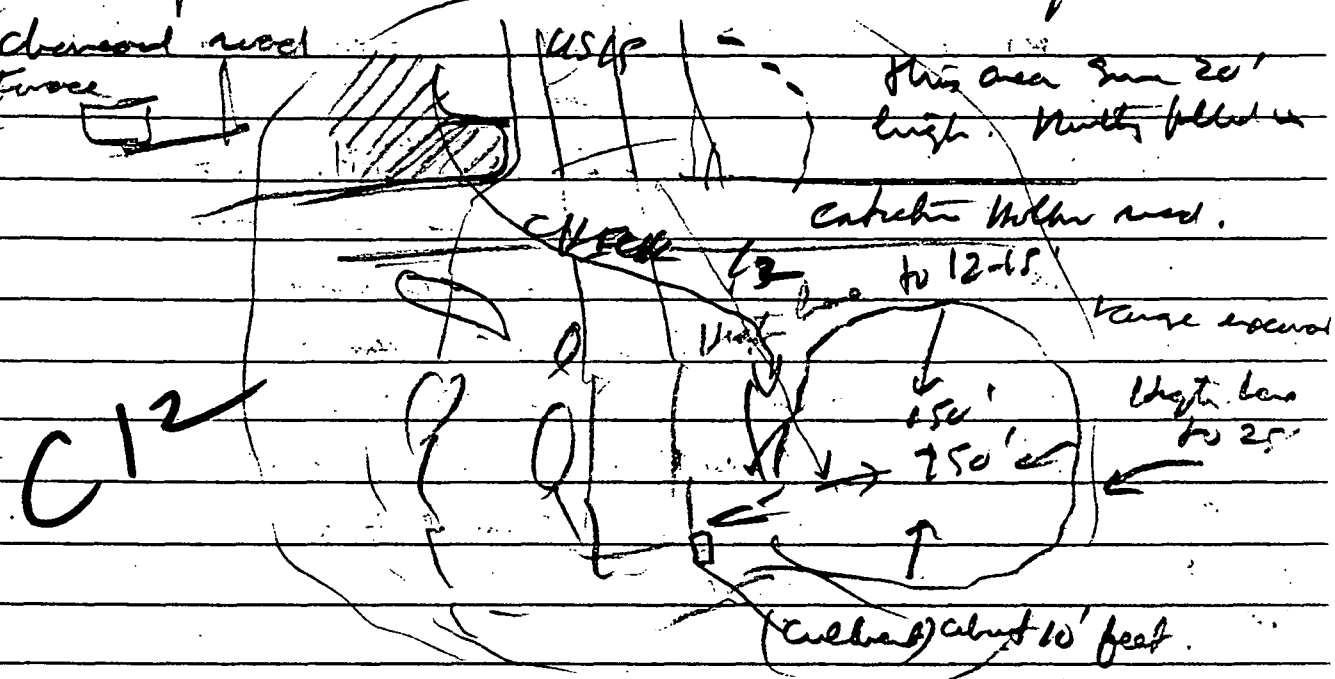
5/26/77

5 Check 12. For several days (starting with Tuesday and Geologists visit I've been concentrating on [illegible] mine ore mine area located at cross roads of Charleston

30 Hollow charcoal road

12 Furnace

42



50. Below this is one of the 2 ore pits mentioned in Singewald &c. the other 300' to S is the Big Pond ore pit. Dualization will cross here affecting the Check 12 ore pit section on the west of the road.

50'

5/29/77, Sunday

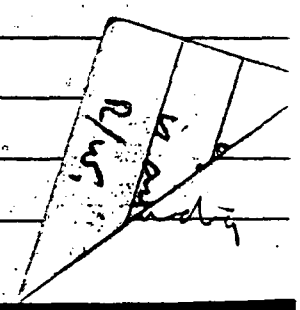
Following checks added for Report of Progress (need write up)

Check 13 - Big Pond dwelling SW of retaining wall. C.F.

Check 14 - Paint Shop, outside of R/W

Check 19 - Limestone quarry .4 mile N Putnam Rd on E R/W.

Note Lime Kiln at 467+80 on median line E R/W 75' S of SE edge of Culvert Bridge



5/30/77 4/50 5280 74

Station Locations of Check Points 9/6 .4

21,120

Check 19. Limestone Quarry Sta. 455.42

Check 1. Sta 536 E 200' Amendment Sec 434 + 30

2 Sta 533 W 250' " 21 . 12

Check 3 539+50; E 75 (+4F) Early Iron Mine 455 . 42

4 544 - 544+50 E 50' Bath line

Check 5 555+50 E 75' Amendment Remarks

6 558 E 70-130' Cemetery

7 568 Cartz House

8. 555+80 E 20' Mine Shaft.

9. L.S. pit 556+50 E 30'

10. near Sta ~~465~~. 483

11. Mill dam. Sta. 570

12. Cupolina mine ore mine 578 - 576 plus 50.

13. Big pond. Sta 563 - 567

14. approx. Sta. 563. may be within Easement area, check this. Point Stop.

15. Ore Washer Pond Sta. 559+50' - 560+50'

See Report of Means & Mines Prepared May 29/77

16. Kimbel ore Bobs

17. Race way.

18. Arbor ore mine.

19. Limestone Quarry

etc.

5/31/77. Tuesday 1-30 - Call 663-6185 Frederick, Md. to cancel drill team, back line, (+ drill team?). No [illegible] [illegible] Schedule for Wednesday. Cancelled - O.K.

Any time submitted in Report of Progress + Mines ~~Ca. June 1, 77~~ through May 29, 77

3
20
23 days

76

184 × 15 = 920 + 184 = 2760

23 × 8 = 184

23 × 23 = 69 + 46 = 23

15 × 8 = 120

23 × 12 = 46 + 23 = 276

120 × 23 = 360 + 240 = 2760

12198 − 11602 = 596

5/31/77, [illegible]. Invoice

Personnel

Kenneth B. Orr, archaeologist

services: 23 days @ $120 per day (184 hrs @ $15/hrs) — cost 2760

Food 23 days @ $12 per day — 276

Lodgings (cozy motel - [illegible] for artifacts - 7 days a week)

14.95 × 7 = 104.65 × 2 = 930

14.95 × 7 = 104.65

4/28/71 (receipt #1)	16.90	
5/2/77 to 5/8/77 (receipt #2)	56.16	
5/8/77 – 5/15/77 (receipt #3)	56.16	
5/16/77 – 5/23/77 (receipt #4)	56.16	
5/29/77 – 5/30/71 (receipt #5)	56.16	
	241.54	241.54

114 × 5 = 570

Transportation –

Car rental $114 per week w/ 500 free miles per week. 4/23/77 – 5/28/77 5 weeks. — 570

(Contract 4/23/77 – 5/7/77 (2 weeks) other contract in use. Receipt #6)

Mileage. 4/23/77 – 10053

5/28/77 – 11850

... 1797 miles.

12198 − 10053 = 2145 × .12 = 4290 + 2145 = 257.40

11850 − 10053 = 1797

578 + 42.71 = 612.71

Gasoline:

4/24/77	(#7)	3.45
4/28/77	(#8)	5.00
4/29/77	(#9)	3.55
5/02/77	(#10)	3.65
5/7/77	(#11)	3.50
5/13/77	(#12)	5.00
5/20/77	(#13)	5.00
5/23/77	(#14)	5.00
5/27/77	(#15)	5.00
4/23/77	(#16)	3.56

11602 − 596 = 12198 + 248 = 21596

11602 − 248 = 11850 − 248 = 12198

add telephone

23
23
69
46
529

76

6/1/77, Wednesday. Check 12 [illegible] one. [illegible] 3 shovel men and Backhoe.
Attempt to get profile of open pit area at junction of Catoctin Hollow road and US 15.

US 15.

culvert

→ 12' ←

note: grey clay stratum with chunks of iron ore — stratum ca 8' from top.

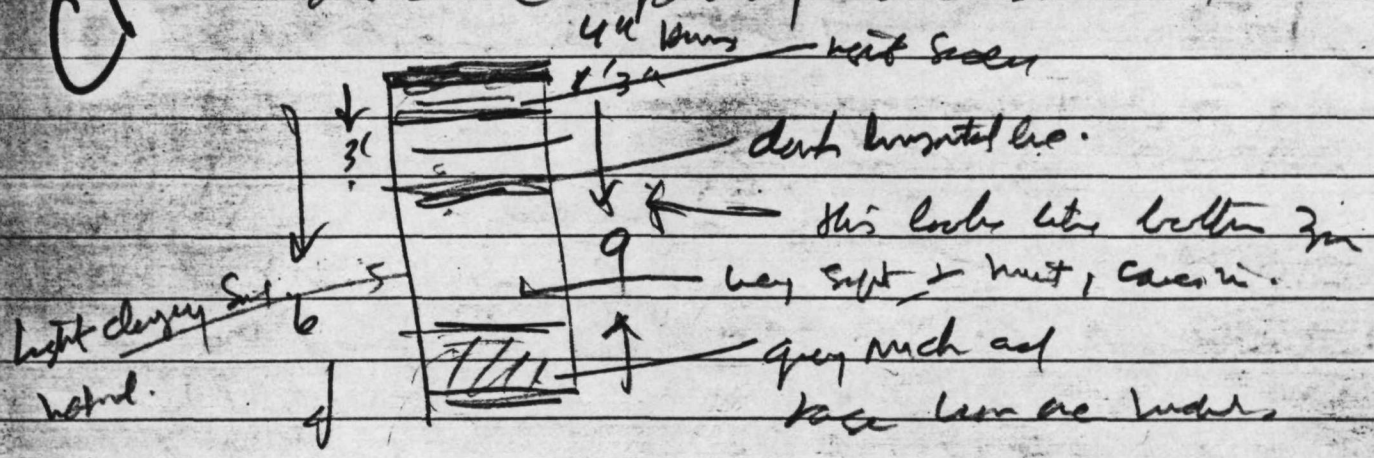
grey natural stratigraph.

lt.

grey

light

C12 at deepest in center land get rock — clay & iron ore. probably bare stratum.

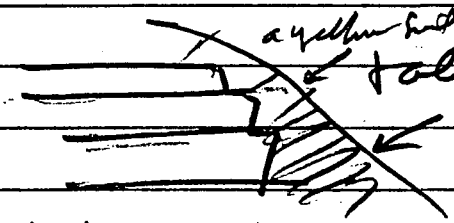


Back Hoe goes to 9 feet. no light for picture — large Boulder Sewer. Filled in to about 4'

Interpretation of Stratigraphy

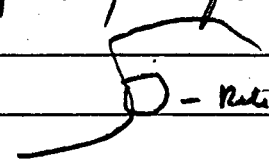
Get [illegible] of [illegible]

Sunny, the stratigraphy of check for cuts of natural alternate grey clay and brown sand - both with iron ore inclusions - some of iron ore as large boulders. Let this - specimen retained as back-hoe preceded this is not a stream - little hunting each seven stream - large Boulders (indeed) - flat - however - stream does meander but probably distinct leaves cuts ○ ○ intervals isolated. Compare appearance of known ore pits - what do they look like - Auburn & Kimball. Also that stratum is sharply done with no smooth edges



C12

also pits of refuse seem to be about



at base of cut no evidence of iron trackers (too early?)

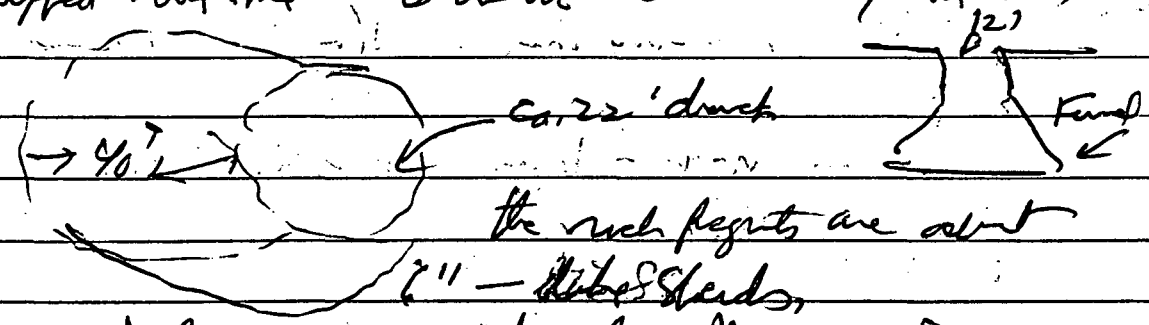
on the other hand

Face put and deep put of cut on side of hill

C 29 Test 8, "Silver mine". This was reamed out to depth of about 8' by back hoe which then went on to ~~[illegible]~~ a small limestone quarry. Here a log root tore hydraulic cable and damage line broke. Backing proper lines on for about 1/2 hour. Back-hoe operator, Raymond Lord SHA Frederick helped. Repair now came to remove part and replace it - may take a week to repair.

Remmer ↓ [illegible] JM. 78

Test 8. Silver mine, the hole was about 22' in diameter. It was supposed to go down for 12' then form "like a funnel out to a diameter where you could "drive a team around", the information on this feature comes from Remmer who talked with NEIL West about 50 years ago, West operated mules which operated a drum on which the "Silver ore" was raised to surface. A large bar of Chipped "Limestone" is on the South side of the Hole



C8

the rock fragments are about 6" — [illegible] Sheds,

I put up a telephone wire gutter from Remmer and strung grass & brushes on it to protect the pit from intruders,

the mule bar was located about 50' E of the T9, small limestone quarry, several large stones have been found which may be associated. Both this appears outside of R/W. the Silver was supposed to have been sent to Nila. (where it was minted) the SHD [illegible], [illegible] & others [illegible] here & got Limestone (How deep?) but no Silver

the mine must have been worked for years (about "15-20 years). It was started in 1867, Wat was born about 1830. When Remmer 1st came here there was piles of rocks near mouth of Shaft. Farmers would haul it away to use on drive ~~[illegible]~~ way, etc. the mine Toward operation because the mine Boss fired the mineralogical Engineer & tried to run the mine himself, the Silver

80

~~6/8/77~~ June 1, 1977 Nemer 79

Vein was lost in the process.

✓ Nemer on Tent of Earl Cauley's House. Katie Cauley daughter in law of Earl had a father James May who had a blacksmith about 100' N of the Cauley House on top of the slag cut up rating wall, this was built a 1926.

C8

✓ Nemer on Kelly House, this was covered by the road.

✓ Nemer on Walker's Houses W of the Mansion House at the furnace. These nearly under the road now

✓ On the N side of little Hunting creek is an old ruin near a drinking fountain of the park — Not far N of creek ~~[illegible]~~ & within N/W

✓ Call Dr. Edward Deale 0-302-697-1789
0-302-678-5314
Charge to OKR 703-371-7361
Dr. Heale confirms will come about 10 o'clock
Catoctin Furnace June 15, 77 Wednesday.

2 June 77 — Thursday
1. Call Land Martin 301-321-3436 — when start drilling?
want Hill in Big Pond, little pond, one foot behind stacks at US 15 ✓, mill race pond at little hunting river.
Who is the guy — Supervise him? tom
Have strata of one pit at mill race pond.
Charge to my number — one large water bearing with grey clay
703-371-7361

Not in – anyway with Jones in Western Maryland" be back tomorrow morning.

2. call ~~to~~ Ron Orr 301-263-9055

a. → coordinates.

41406
42463.9 } 4 Bigs
41406
1058

b. finish up Catalogue – also check other other guy for dates on listed features – Rent Shop – etc to check out Renner.

no more drawing

Busy. Yet Ron later.

3. Call Margaret Ballard 301-383-6899.

1. Invoice to include Salaries – ?

i.e. Fourth

Ron

Self

2. Mr. Heite – Catoctin Furnace June 15, 10 o'clock Catoctin Furnace

invite – any who want to come – including Bartram.

3. Dave ~~Mr.~~ Martin [illegible] here?

4. Check 13. Big Pond. Jerry checked out Supposed Stones & Bricks 100' S of Cavity House Check 7 – "not there". One cart axis checked today – this can be located from Road.

C13

Check ~~14~~ 15 Small Pond. I worked on "ramp" today – Cabs which one cart were supposed to come + one worked ~~on~~ prior to being sent to furnace. I thought it was a limited up of dirt but tests (10)

C15

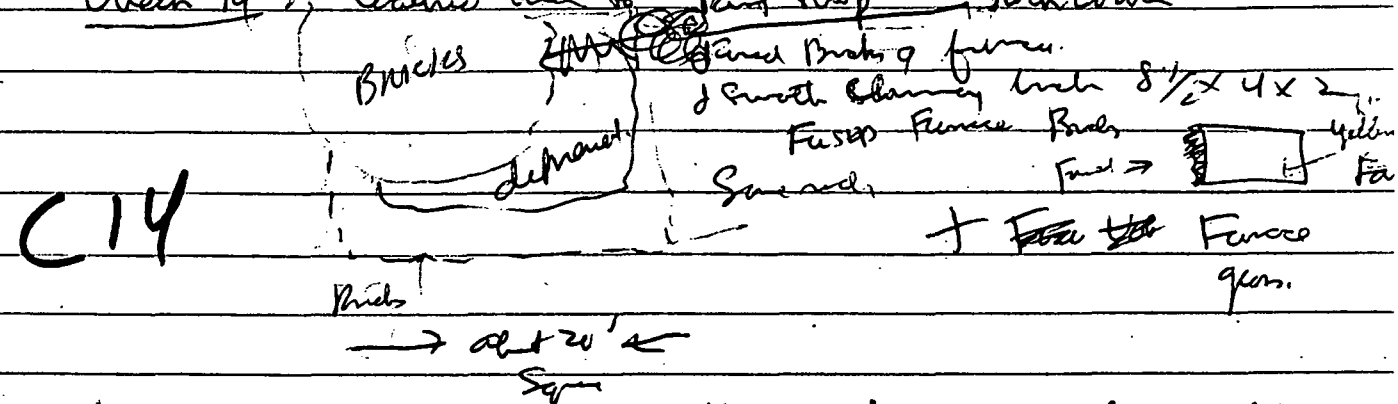
about 2' square shoved. – 3-41

← light tan subsoil.

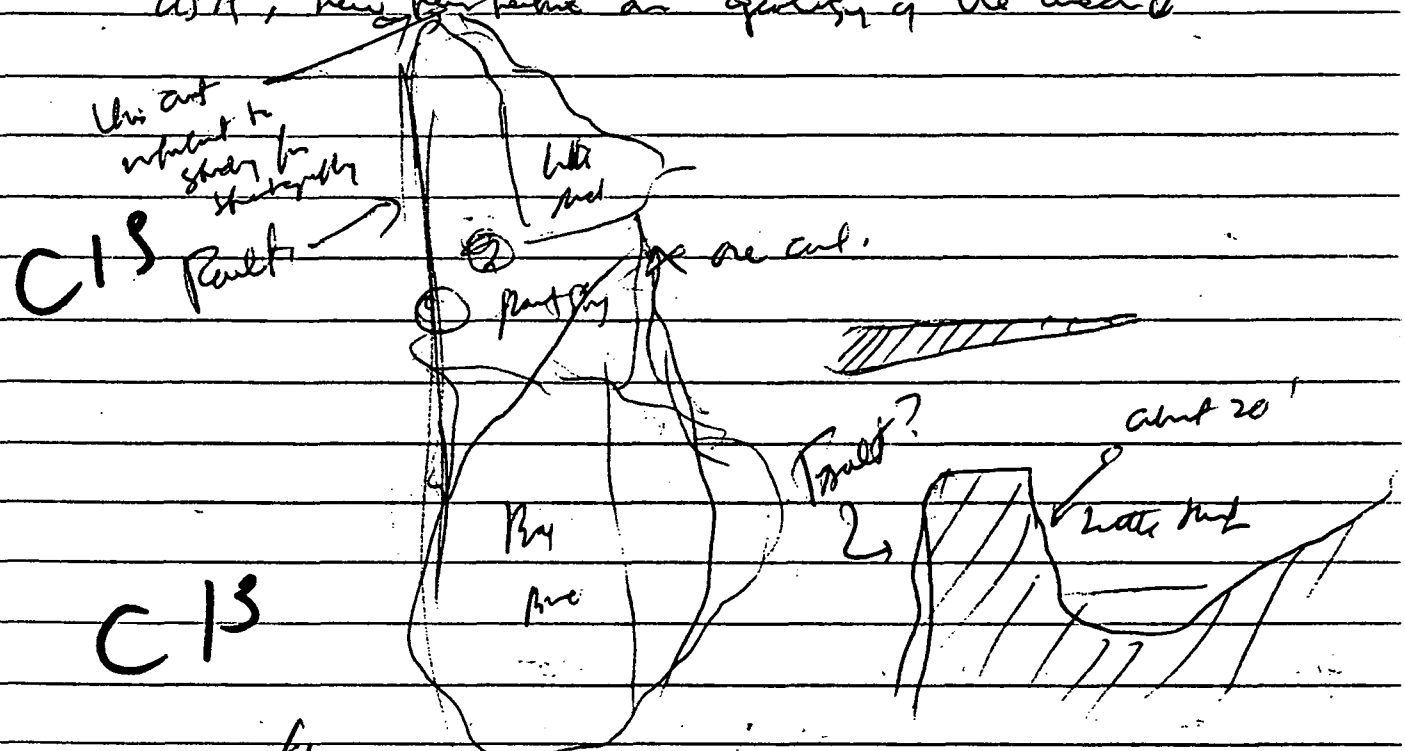
Area near end of "Ramp" widens and has some large rocks + bricks – Renner says at some one something here

perhaps to pipe up water (with a Ramp?) to work one.

Check 14 ; walked over to "Paint Shop" ; Rock Corner



Locate this by sighting on Houses to East along old USIS, new perspective on geology of the area



3 June 77. - 1. Note that Rock-line broke down in Tuesday to get into Check 9, Lowestone Quarry on 1 June 77.
- Stamps broke Hydraulic line for scoop. Rock-Hoe was Hauled away 2 June Thursday for repair — supposedly back on job by last Wednesday.
2. SHB drill team appeared Friday before memorial day with Tom Sanitsky in charge, was identifying drill spot under direction of Dave Martin; Said he would see me

next Tuesday. ~~[illegible]~~ 3 May 77. I was unable to be a
pb until late afternoon due to temporary illness
of wife. Looked for him Wednesday — no sign
called Martin Thursday — he was in Martin
Md. Called Ballard & reported it, looked to
call Martin this morning to find out situation. (see below
he was at fault!)

2. Call Dave Martin 301-321-3436
change to 203-371-2361
When will they start.
Will Dave supervise points to be drilled?
Will be back Sunday
If change in plans call who?

Got him — delay due to need for permission
from State Archaeologist & State Park to bring equipment
across their property (Antiquities preserved) to set
up drill holes. Have State Archaeologist permission now
waiting for word from State Park. I mention
my diep in one mine.

4 June 77. Continuation of invoice
Remarks On Archaeologist
Photographic film + development

4/27/77	(#17)	1.04
5/8/77	(#18)	1.46
5/11/77	(#19)	2.64
5/11/77	(#20)	1.46
5/17/77	(#21)	5.48
5/17/77	(#22)	2.92
5/25/77	(#23)	1.66
5/28/77	(#24)	2.85
		19.51

84

83

Invoice (contd.) K.B. Orr Arlene Arlene Supervisor,

~~Supplies Arlene~~ ~~[illegible]~~

Bag ~~Bags~~ for artifacts 5/8/77 (#25) 2.20

5/9/77 (#26) 1.28

5/9/77 (#27) .62

4.60

office Supplies 5/15/77 3.37 (ORR #28)

7.50 Ronald B. Orr, Archaeologist Assistant.

64 Services 8 days @ $60 per day 480

3000 (64 hours @ $7.50 per hour)

4500 Food 8 days @ $12 per day 96

450

Lodging Cozy Inn 5/8/77 (#29) ~~16.90~~ 17.94

Cozy Inn 5/15/77 (#30) 17.94

Cozy Inn 5/21/77 (#31) 16.90

52.78

Film & development

2 Film thumbnail Hung 5/7/77 (#32) 2.92

2 Film " 5/14/77 (#33) 2.83

5.75

Transportation.

Mileage 4 trips Chiropolis Md to thumbnail Md &

Return Begins 41406 end. 42464

1058 miles @ 120 per mile 41406

1058

$125.96

4 | 1058

.12

2016

1058

125.96

222

480

96

52.78

125.96

5.75

760.49

Run total

Invoice Continued.

May 25, 1977

Dr. John L. Fauth. (Statement of expenses / #34)

Services (May 26, 1977)

1 day @ $120 per day — $120.00

(8 hours @ $15 per hour)

Food. 1 day @ $12 per day — 12.00

Lodging.

Cole Cottage. Ontario Pa. (#35) — 9.00

Transportation

Mileage 75 miles @ .12 per mile — 9.00

$150.00

Under K.G. Ons put.

1. Telephone (C&P)

	5/8.	Dr. Fauth. Cortland NY	1.79
6/5/77	5/12	Ron Orr Annapolis	2.01
Sunday	5/13	Ron Orr Annapolis	1.34
	5/17	Dr. Heite Camden Del	3.59
	5/13	David Martin SHD, Baltimore	.75
			9.48

2. Mail. Book a collection [illegible] to Dr. Heite Camden Del — 1.30

Grand total.

K.G. Ons.	3928.51
R.G. Ons	760.49
Fauth	150.
	4839.00

86 85

6 June 77 — Calls 663-6185 SHA Frederick — Rain or no?
men came out to dig (at washer pond) but
called off on account of RAIN.
Interview Renner on some points & set up
meeting with him for tomorrow at 9 [illegible]
Spent day completing report of progress & invoice
for SHA — sent it off certificates with
receipts (35)

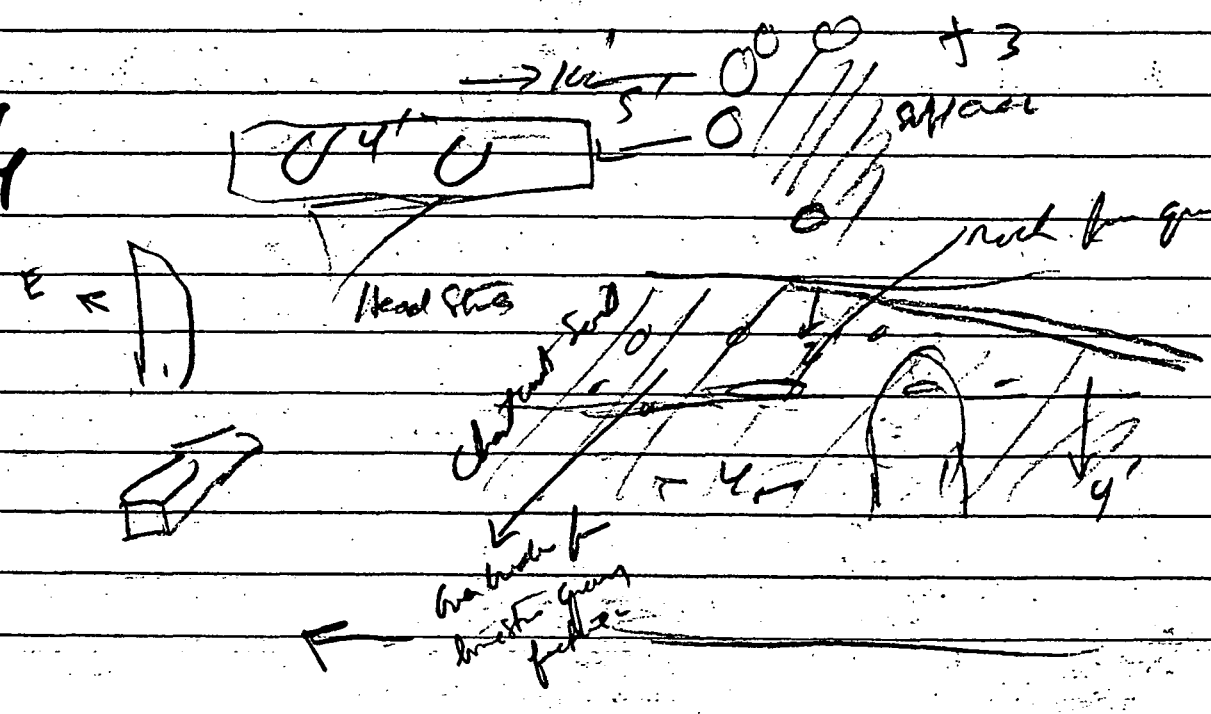
7 June 77. Work for today — at washer pond area.

that now to work on this
1. Check over border of soil on slave cemetery.
2. Continue to look for washer terminus
3. Check for tracks near 2 axles first or enlargement for one cart.
look for workers Houses and birth yard with Renner.

1. Field trip with Renner to 10:45 see below

2. Check 6, Slave Cemetery test 5. located 5' S
of test 3. Stone circle area, 10' S. find 1st stone
head stone, 4' to S another stone

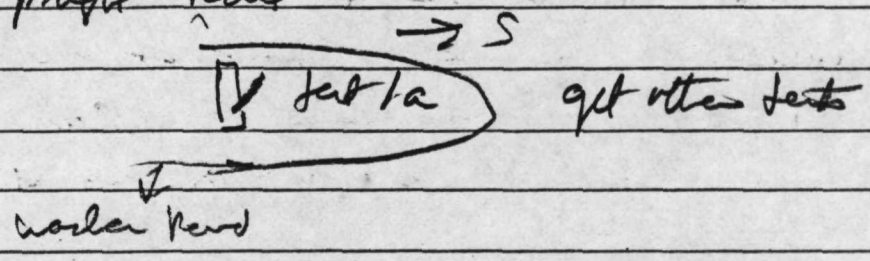
C4



2 June 27 (Cont.)

Check 15. Test 1a top of ~~[illegible]~~ washer includes 2 sheds (1 cup - coffee anyone?) and 1 window. Rare glass. Four near rear of spur at upright rail.

CIS



Test 2 — Over and over cast axles
1. Hotchet, iron
1 spike, iron. Just below surface

3. While checking report of "ruins" at Pryor Pryor I talked with Mrs. LEO WOLLARD of Pryor Road a man in his 60's whose "daddy" worked in the Kunkle mine. He spoke of shafts which the mine people put down to explore for iron mines. He described them as 6' or so around (radius) and went down 50' or so. The shaft was shown-up by CHESNUT cribbing and when it got down so far it would cave in at the sides gives a big fan "big enough to drive a team around. The miners would dig this out. Wollard knew of Roman's "silver mine" said to be an invention to keep the road from going through — "He and Gardner & a lot of others have been working on this — getting stones put up at the furnace. His father dig many of the shafts which were put all over to find one.

Wollard

Check 8.

Check 8: Explanation done.

88

7 June 77

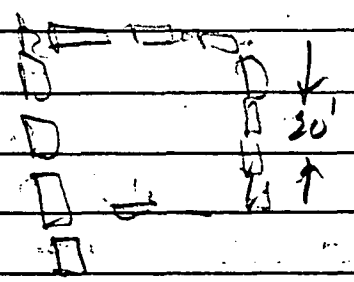
87

4. Field trip with Renner 9-11 a.m. This morning I accompanied William Renner on a field trip to clear up some suppositions.

We started by inquiring as to where the Brick Plant was. Sandy believes it to be in the R/W at right of Park entrance. Renner says it was back by Administration Office showing me a depression which he said was it. Resolve this problem.

Opposite the Latrean House about 300' N we examined the foundation of the BILL GREEN Cabin marked by large stone. Renner said his mother's grandmother died here.

RENNER RE

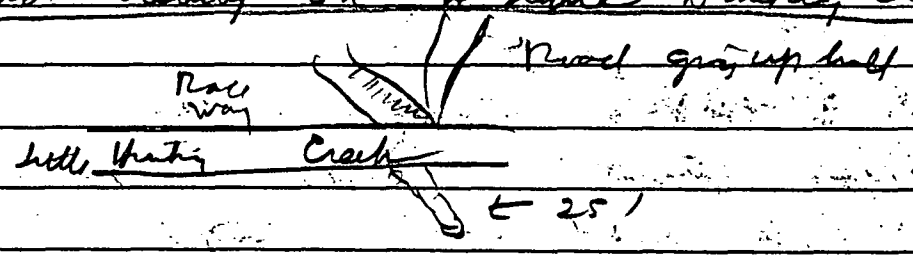


The Bryce Cabin was nearby nearer Latrean on that side.

WORKER HOUSE

There are workers cabins outside of R/W.

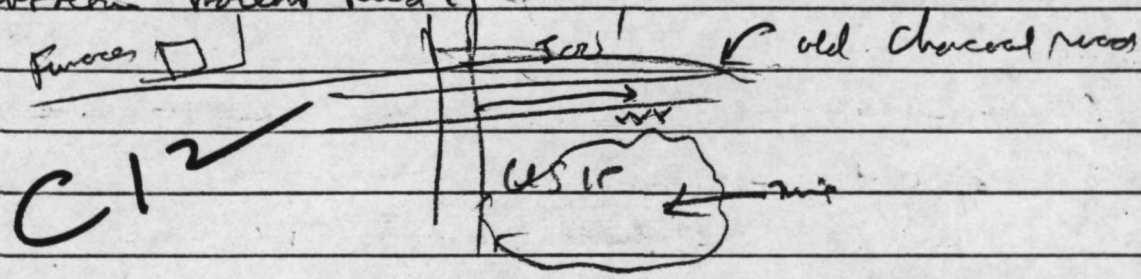
Dam and Raceway on the Little Hunting Creek.



This about 1/4 mile up from USIS. It is supposed to be the first source of water used by Johnson Bros in latter 18th century before 1774. The Race way peters out — "is filled in" for some reason before it gets way far. Renner believed it fed into Locust Pond (Mill Road & Source of mill race)

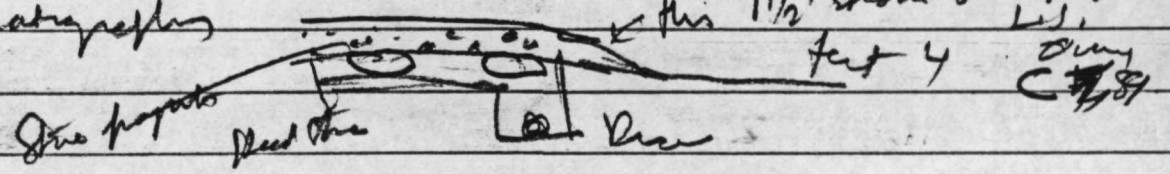
Sc

we then visited the supposed 2 or so workers houses up Extraction Hollow Road.



See Renner's interpretation of Mines in vicinity of Lowest Road, RR. Bldg. etc. (attached)

Check 6, TS. Child's 0-1 year skull (lobby) Teeth without roots etc. found at base of Stone in feet 5.
5 iron nails, Square. 2" long. 4' below grade
Stratigraphy



∴ Small L.S. Quarry C9 (pub) is less old than C6 Burial grade.

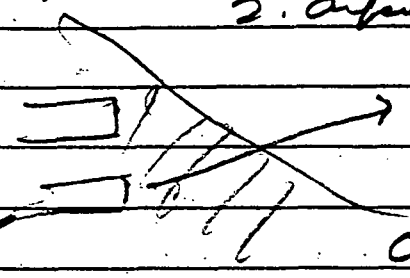
8 June 77. 1. Fourth on Check 12. Charcoal Road Ore Just.
Harpers Formation – Phyllite between Slate & Slate. not sedimentary. altered by prime clay weathering of ~~Phyllite~~ PHYLLITE
fairly conclusive associated with iron ore.

below lime stone

Ore is big concentrated in Phyllite as result of its decomposition;
What role does Weather play in process of formation
(not Holly White Clay – White → variegated clay yellow red brown)

Partially decomposed Phyllite → Thurston Limestone
Phyllite, equivalent to Friedrich LS.
(Hartmann)
Ore = concentration due to change in ~~[illegible]~~ chemistry
of water —

2. Arfed. production of white clay



→ downturns to take a cut (as in Ming),

Color Band minimize layer of original rock, —

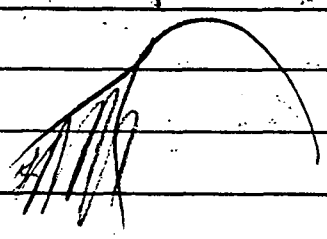
Fault

Fault. 1. Solid original rock decomposing in situ
Chemical weathering → iron concentrated
No iron from outside but concentrating it
Passing in Middling theory

3 Insoluble iron forced in phyllite

2. Discordance relat. of gray masses
& other zones. Nodular iron — not
uniformly distributed, takes pate to
start with iron come in from other
rocks in solution, Solutions Percolated
through mass of rubble Phyllite!
Iron intercesses, water chemistry
changed → nodules of concentrated

least favorable
Talus theory!



3. Percolating water eating away
limestone (~~[illegible]~~ Friedrich),
Insoluble residues left behind.
Clay & iron left.
Calcium carbonate
Limestone matrix.

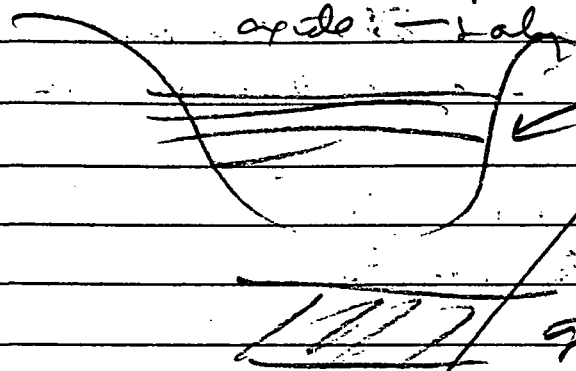
insoluble residues

Clinical 40

1. No evidence of mixture — in the cut or mud.
Decomposition of Darfan — either the decomposition of limestone.
Ile F hm → Phyllite
Others — carbonate important in the process.

Check 12 — 1. leads [illegible] to [illegible] of [illegible]
with Darfan Phyllite —
usually along [illegible] of [illegible]
originally if [illegible]
light dark gray, — Slaty or Sandy
not very Homogeneous, — [illegible] clay
Metamorphic rock —
Transition between Shale & Slates.
C12 Appalachian Orogeny, 220 million years ago.
Mt. [illegible] here — [illegible] [illegible]
100 million for 330 million
2 [illegible]
Hercinian uplift of Mt. in [illegible]
Red [illegible]
Pyrite in Darfan Phyllite [illegible]
Black layers — gray layer [illegible] [illegible]
but not [illegible]
yellow [illegible] [layer] [illegible] [illegible] [illegible]
[illegible] — [illegible] red — [illegible] — yellow [illegible].
Strong away from Black.
(Gray not [illegible])
in one [illegible] [illegible] from [illegible]

Fault testing "iron nodules" — other factor is manganese.
Ore — yellow bow powder — Probably in the ore.
Chemical analysis — (see Single wall) 45% iron
oxide — only in nodules.



Built up in working
nodules out. — may not be
related to mass activity.

gray clay — Poor [illegible]

iron gravel — Sand, yellow + orange [illegible] — [illegible]

Fault

If water chemical catalyst the good

Now — would keep clean

Fault — (natural)
& chemical or spectro-chemical analysis — suggested
See what changes do occur.
Experience —
~~[illegible]~~ Iron ore mine.
Concentration goes out to leave nodules
Hummocks — left by differentiation

Dr. F How important is limestone to ore — a geologic question
but understand of how ore originated.
1. Iron ore mine seen in Check 12, test 1
2. Processes of iron ore precipitation illustrated here
from ~~[illegible]~~ Harper Phyllite — not
limestone as believed. Seems to be a function of
plankton of water on Heterogeneous Harper Phyllite
which has sufficient carbonate in it to allow [illegible]

June 8, 1977

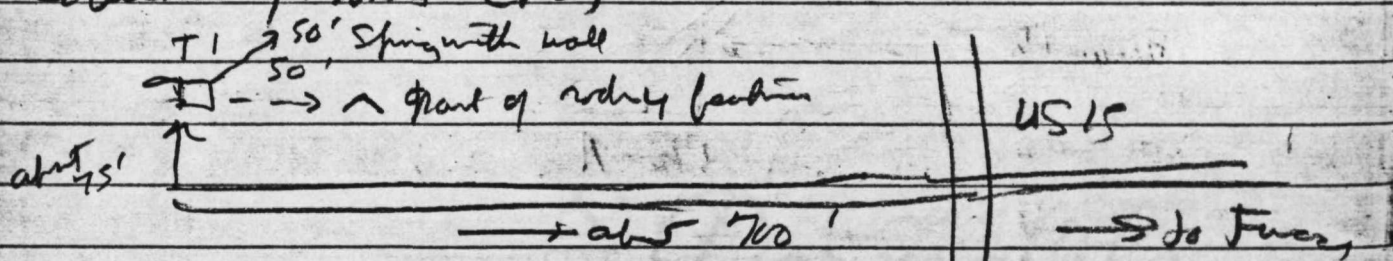
3. One pit near Little Hunting Creek on East Side 92
Could be limestone — should be tested

4. Would like one of my reports to cite
— agrees to putting in appendage on Geological Aspects of Intensive Archaeological Survey.

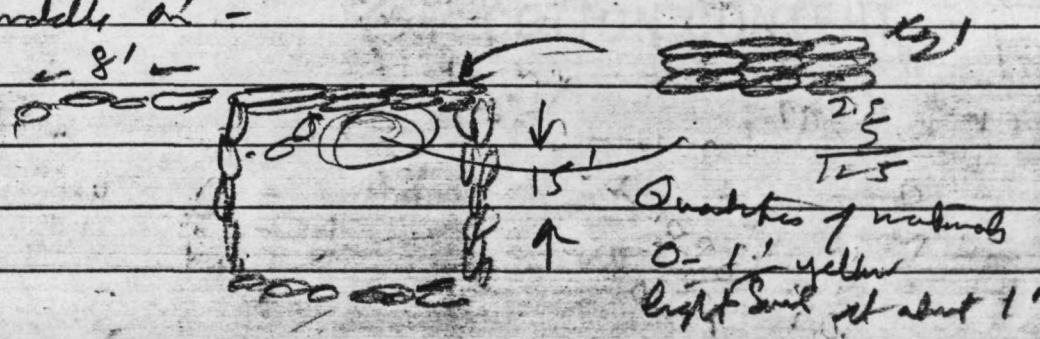
Check 20 — Catoctin Hollow (Chaneral) Road

I examined the Station with Dr. Fauth saw Harper Phyllite Hard & original — & decomposed Harper Phyllite Shining slate → Gray clay Sandstone → gravelly S.S. with iron ore. It is in the Sandstone that the iron forms due to easy percolation of water through it.

Test 1. - looking for 6 worker Houses, Have 1 complete Home foundation (T1) and a partial collection of stones (T2)



Both features had square nails, unidentified thin glass, iron wave cucumber — bottles — 19th century.
probably middle on —
Test 1 — 8' —



SANDY

Brother Nemes & Anders located / Houses here. 93

Charles H 291-221

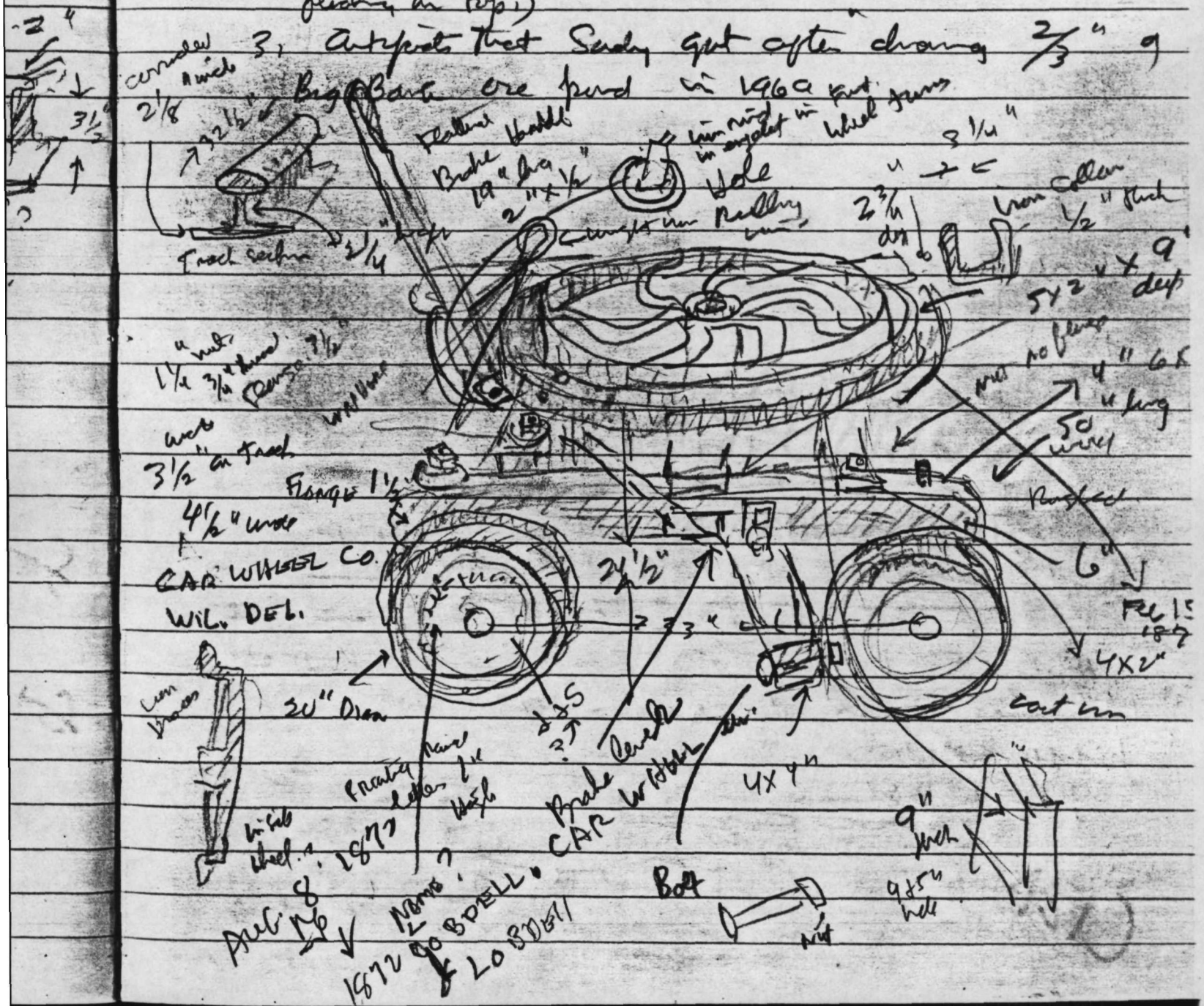
9 June 77, thursday. Rainy day, no outside work.

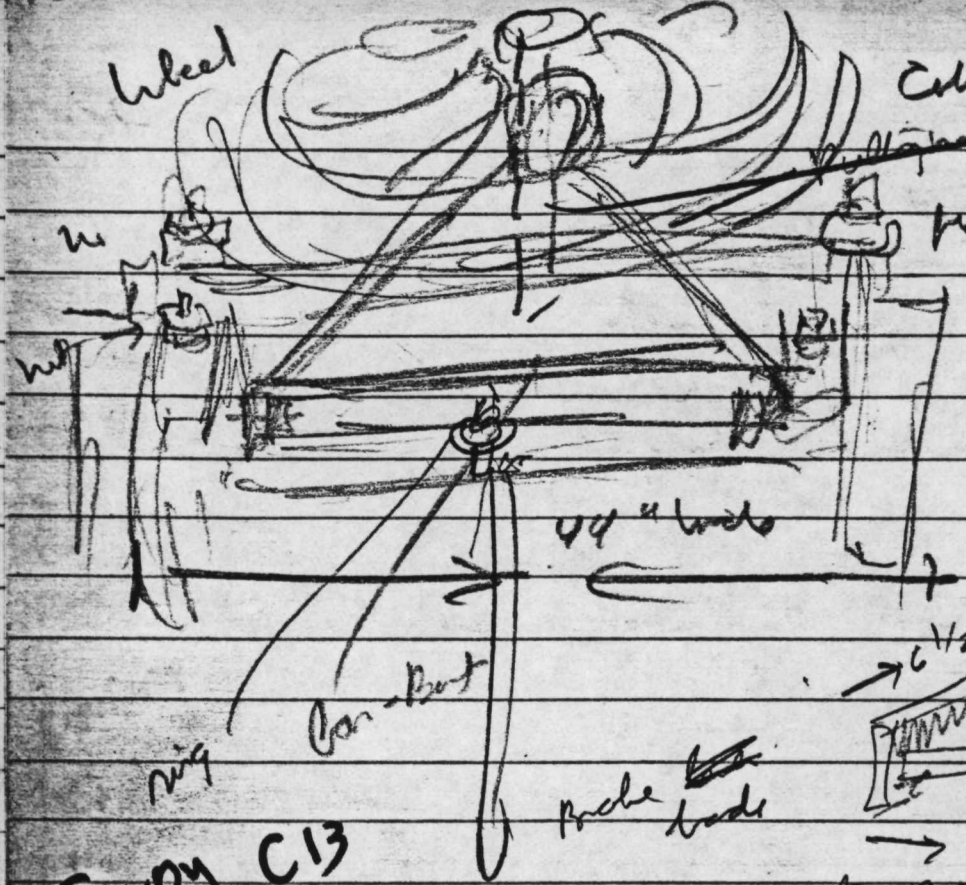
1. Trying to interview Mr. Anders... — call after 1 Pm.

2. Called Mr. Sandy — told about meeting June 15th. invited. Asked about "ore cart" at far end of Big Bank pond. He says it is a "turn table" — they dug down about 2 feet came on wood — (now floating on top.)

C13

3. Anticipate that Sandy got after drawing 2/3" of Big Bank ore pond in 1969 [illegible]





Can't lift it
6x9 Block of wood wedge & car

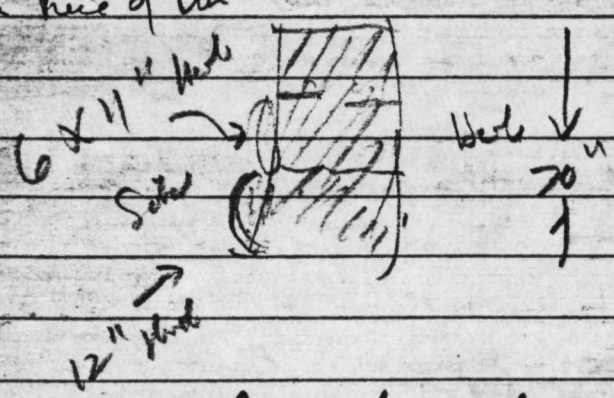
Front wheel

other Rails?
this could be a bit to turn cars and a switch?

rail?
2 1/2 - 4"

SANDY C13

Large piece of line



note if date from left rear wheel
right rear wheel bars different with
but 187192.

9 June 77.

When they cut the [illegible] off.

Washed [illegible] — [illegible] [illegible].

ANDERS Used to [illegible] people in [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

Road to S. of Carty [illegible] — [illegible] from Saw mill.

a dirt road.

12 a month rent [illegible] to [illegible] of [illegible] [illegible].

L.R. Waysher — ran the furnace. early 1900's.

Big Red Filled with water [illegible] A a [illegible].

Schatz on Road — [illegible] in

Earl Carty — [illegible] full of cat fish.

C13 ↓ worked in one [illegible] — [illegible] [illegible] to

[illegible] Saw mill & R.R.

[illegible], [illegible] — people [illegible] from all over

old man Holt — ran [illegible] at night —

[illegible] Stop — Holt refused to

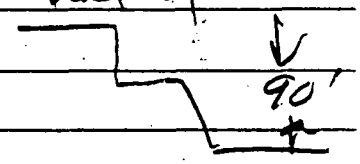
(Started to make coke — cheaper than [illegible].)

Sally Cart —

Cribing at 11' turn table — might be [illegible]

SANDY [illegible]. 12-15' of logs.

[illegible] Finley — [illegible] about 2 levels — [illegible] of

Strip left on 2nd level — 90' to bottom 

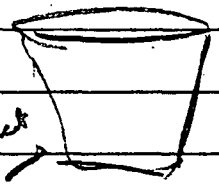
C13

Everything left there on a Sunday evening.

"Coke Buggy" — Pushed into "[illegible] [illegible]"

Plaque — in [illegible].

Big rocks, (Cut) and Home.
Stones (Reuben + Mae) — took to camp.
Acres camp — from eye of furnace (Never Put it in)
C13 Furnace Hollow. Lawrence Ritchie —
1498 acres from Jakes.
Jaguar sport fortune and park —
C11 Locust Pond. Swan Deer.
Boats, Canoes.
"Furnace Bank Hill"
ANDOVER Mt. Road.
Brewster Home built in New Road.
Cowch



make Saucerate in in water
they were under fuel.
Apple butter, put Pudding in when
they Bubble
mine A not made that way this old
Cooked in Tin — cooked Hanning in —
Slip apple butter beat out of Kettle
Long mother bought cans to can tomatoes.
Roof, Susie Green, Rennell. — along Contractor Mt. Road.

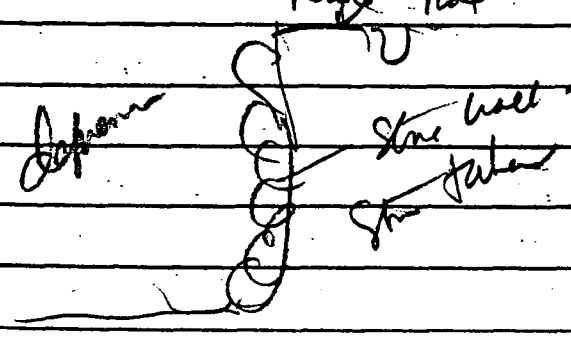
Room to Manor House. — creek to Home.
Locust Road used only for ice.
Race way — confined both sides of Hollow Rd.
"Indian Cemetery" —
SILVER MINE Silver — must have found a couple purples
everyone emptied about it — but it doesn't
amount to anything —
William McGill & the Big burial.
~~Big~~ Man Sheating corn to feed Hogs.
(Bob Frailey)

98

would know about old
Natchez House. — D.C. WAY BRIGHT.

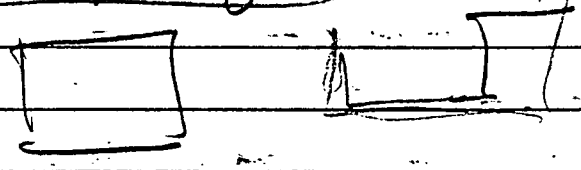
97

"When you opened door — no letter door"
talking about Manor.
Sub floor — Brick under good Floor.
Auburn — Thos. John — Built 4 manor
Old man McGill — William McGill
G'mother She worked for McGill.
I was "wee little"
Anders — German.
Also Scotch people.
Lime Kiln — burn for our farm. — each big house had
a quarry :—
water Bag — [illegible] tires.
leatherman burnt lime stamped Stone —
[See Leatherman for limestone
Lime Burning. — draw Burn overnight are a day.
White walls brown with lime. — keep termite out.
Mom
don't you
remember
[illegible]
lungs — make soft.
Put water on — bubble like boiling
Mr. A — Kids helped — 75¢ a bushel.
Use R.R. coke layer coke layer
limestone.
walls below Naut Ship — all hauled out by
Flour mill.
ANDERS
Camps built from wall
Made Rope



Kids sold ship to
40¢ a hundred
Old man Horne
Lawstown

Everybody called Mr. Aunt a Uncle. – Big Community.
Mr. A. no new family until Mrs. A. family came in.
Everybody lived in some old House,
when did Mr. Frailey come from.
"Aunt Mags father was [illegible] [illegible]
Uncle Hen Frailey"
Log House – moved – double House.
came from Lindy Hill farm Sleep.



ANDERS

Cool Cellar –
How we lived that.
Flat [illegible] – Father & Grandfather lived there – House & Stable.
3 1/4 [illegible] put Houses in 1870 –
DOMMERS – relation to me.
When grandfather died went to get family bible.
from Comer.
"my GORY glory – go up Mad Road, pick tea berry, [illegible]
blowing –
Old tree we [illegible] in [illegible] to
tea berry patch –
with green Kids went down.
Antacoma Church used to be School at
Kelly Road. "Cathy MOUNT"
When girls are – made like Cat
girls took off – School teacher

13 June 77.

1. Bruce Gordon SHA Shields was knocked this left knee at inside with bark truck bulbs cutting pretty fo Big Ore pond. About 9:15 arrived Frederick Hospital Emergency entrance - 9:55. He has Blue Cross - Blue Shield - Signed himself in for emergency treatment.

2. called Mr. Keeney 663-6185 & reported incident. Gordon made out accident form. Mr. Keeney Contacted by Hospital.

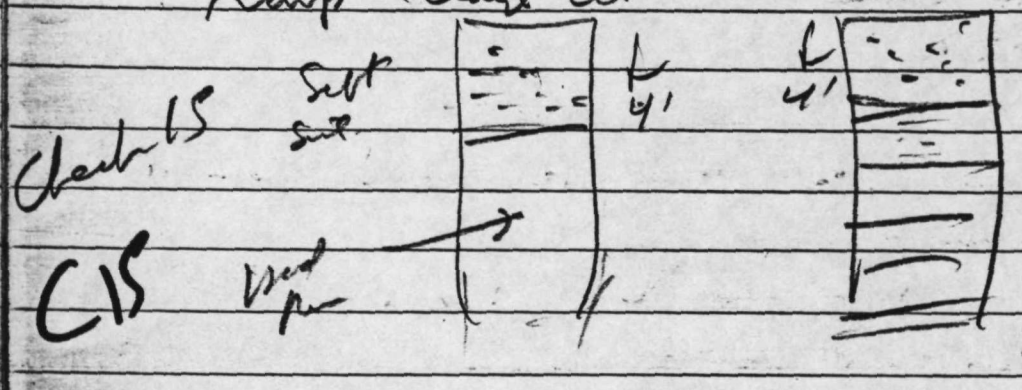
3. Check 1A. Rock area in timber S of junction of 415 and cofactor furnace road. This about 650' long is maximum 50-75' wide fitted with brambles and debris of trees & rock bulldozer to the side. Gives look of slight depression. Rock shown on surface in Nicol maps. Trenched and thus on East side. No signs of anything of human manufacture not brought in recently. Analysis: negative. This outcrop may account for chips all around. Could be Amendment Quartz Quarry.

4. Field trip with Homer. We visit the retaining wall of the Ore Banks, Measured Site of Grist Mill and Saw mill and reviewed area re railway, Ore RR bed, road of mills, Homer restaurant that bank property included all land west of middle of monocacy RR bed, 68' N of telephone pole. The area of the Sweetness retaining wall Grist mill and Saw mill is Check 2.

14 June 77.

1. Worked near Jil 11 o'clock — quite an account of rain. Cleared out Test 4F. Check 7 early [illegible] / [illegible], also [illegible] in [illegible] [illegible] on Worker one pond

ramp ridge cut



See cut by [illegible]

Soft soil — [illegible]

Stratified & [illegible] grey & [illegible] (light tan) zones

Worker one pit originally from same one then used as pond. Not a deep mine. No limestone

2. Worked on objects — getting ready for Dr. Heile's visit [illegible] — objects for South and Check 3 complex

3. Read Book Now left me on Roasting ore. overman, Frederick, the manufacture of iron, Baird, Phila. 1850.

15 June 77

P44 " cc. Roasting in the open Air in heaps. — This mode of calcining ore is undoubtedly the most available, as that generally practiced. It affords by good management excellent results. to form a Heap or heaps the ground must be level and in many cases covered with beaten clay ... the longer a fire remains in a pile, or the slower the roasting is carried on, the better will be the results. If the time is limited, rows of 3' high from 7 to 8' wide at the base and of convenient length may be put up & fired ... these rows may be finished in 10 or 12 days; but though they

Roc Book on Roasting ore

15 June 77

Consumer well enough for Hydrates, Sulphurets, Carburets, and all those ores which calcine easily, they do not answer for magnetic ore or carbonates. For those ores which are roasted with difficulty, round or square piles of various dimensions are used; in magnetic ore may be roasted in the course of 6 or 8 weeks, argillaceous ores of the blue or gray kind require at least 3 months.

P39. "With the exception of red incalfable oxide, the whole body of iron ores require roasting.
(Iron masters who use Hydrates raw Blacken the tayere [blast hole] or the pig iron will be COLD-SHORT if there is too much phosphorus
object: to produce higher oxidation or to expel injurious admixture
As → Hydrated oxide of ore, Brown oxide, hematite, Bog ore
aright to be roasted not for oxidation but to drive off acids, during the Sulphurets and phosphurets, all ores of this class contain more or less impurities matter

2. Paces for locating features: Right angle to Road

From C3 DAM	off 50' to	Paces
1) C3 a. SW corner of Home Porch (right angle w old 15)	1 T5 wall of dam	34 paces Sta ②
b. Sta ② right angle to	to T5 wall	9
2) a. NW corner of Home Porch W side of road Sta 3	W side of road	19
b. N along road from Sta ③.	W side of road Sta ④	12
c. Sta ④ W to test 1 N end	test 1,	5
3) test 1 N. end ③	End of test 1 this track 31 wide	10
4) Sta 5. 7 paces from Sta 4	mid post in wall notch	7

15 June 77

5] 7 paces in to wall line of wheel ... Sta 6 — 7 paces

6] 6 paces from Sta 6 to notch

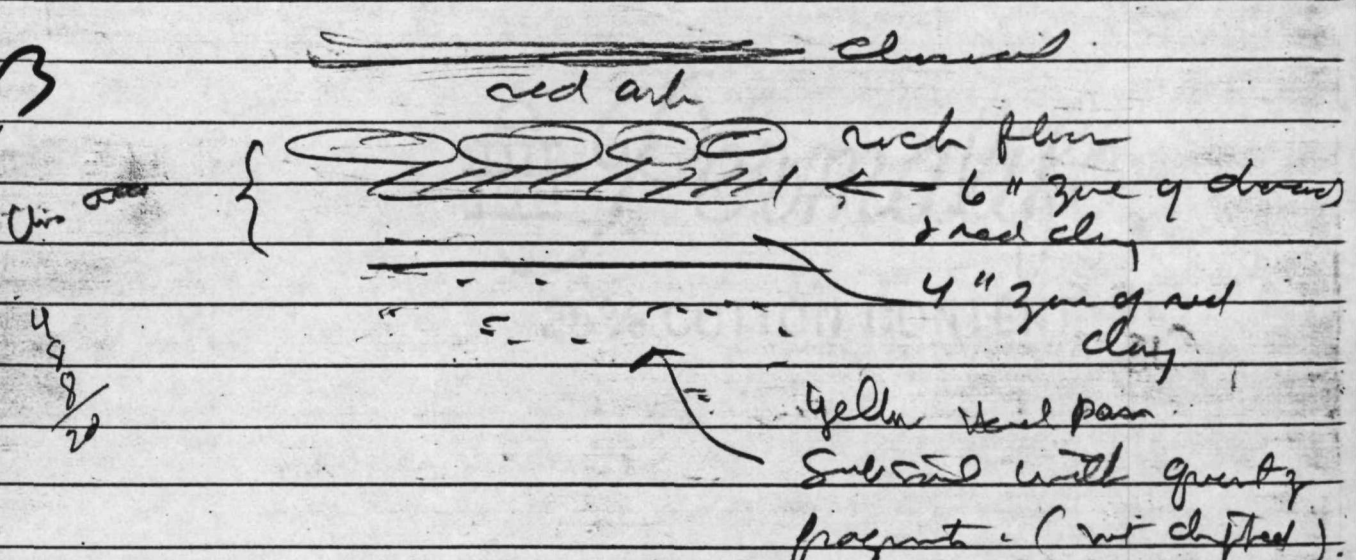
3. Received things from Martin. —

4. Conducted Survey of Results of Investigations (excepting Cavity House and Bath House) for group of 2-3 dozen SHA, archaeologists, and members of Catoctin Furnace Society & Landmark. 10:15 am — 5 P.M.

16. June 77.

1. re checked Stratum below Rocks in test 4F, check 3

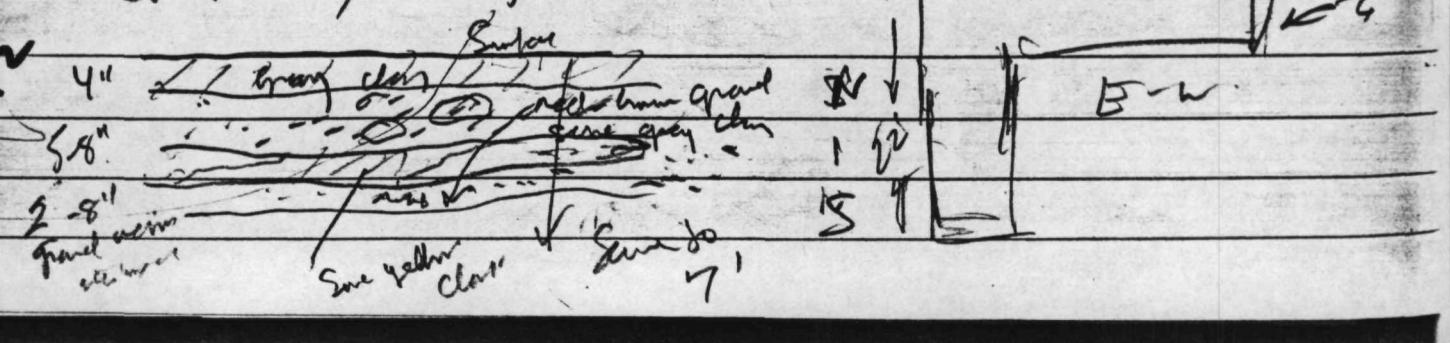
C3



Requested fill in of all Holes (use of Back Hoe for larger areas.

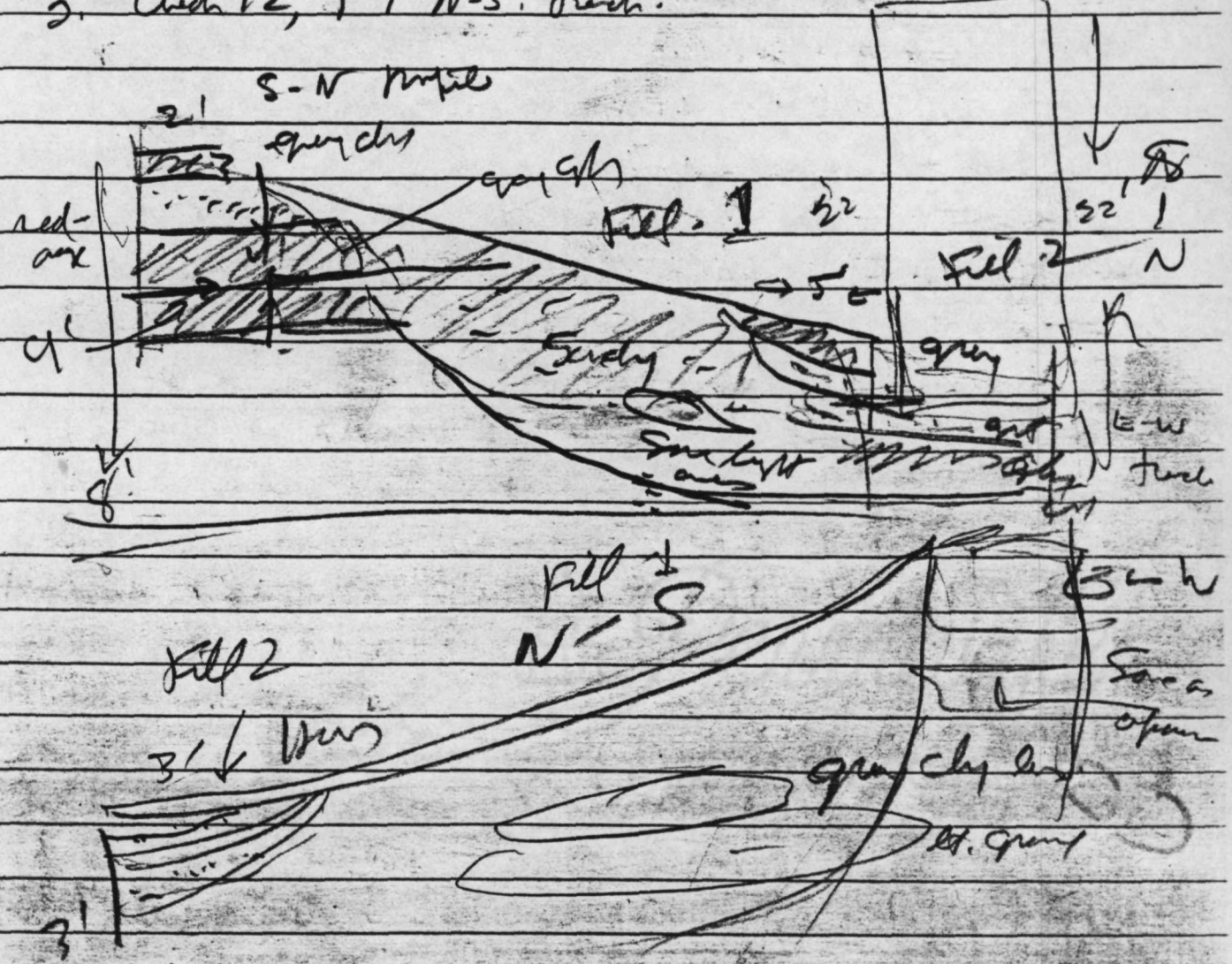
2. Check 12, test 1 E-W trench.

C12

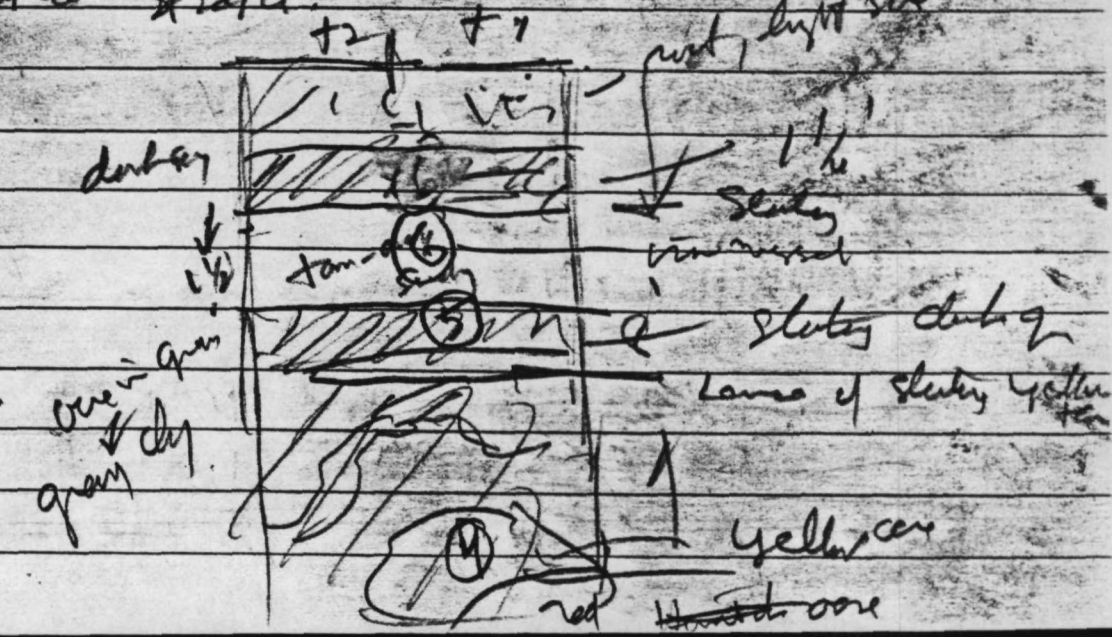


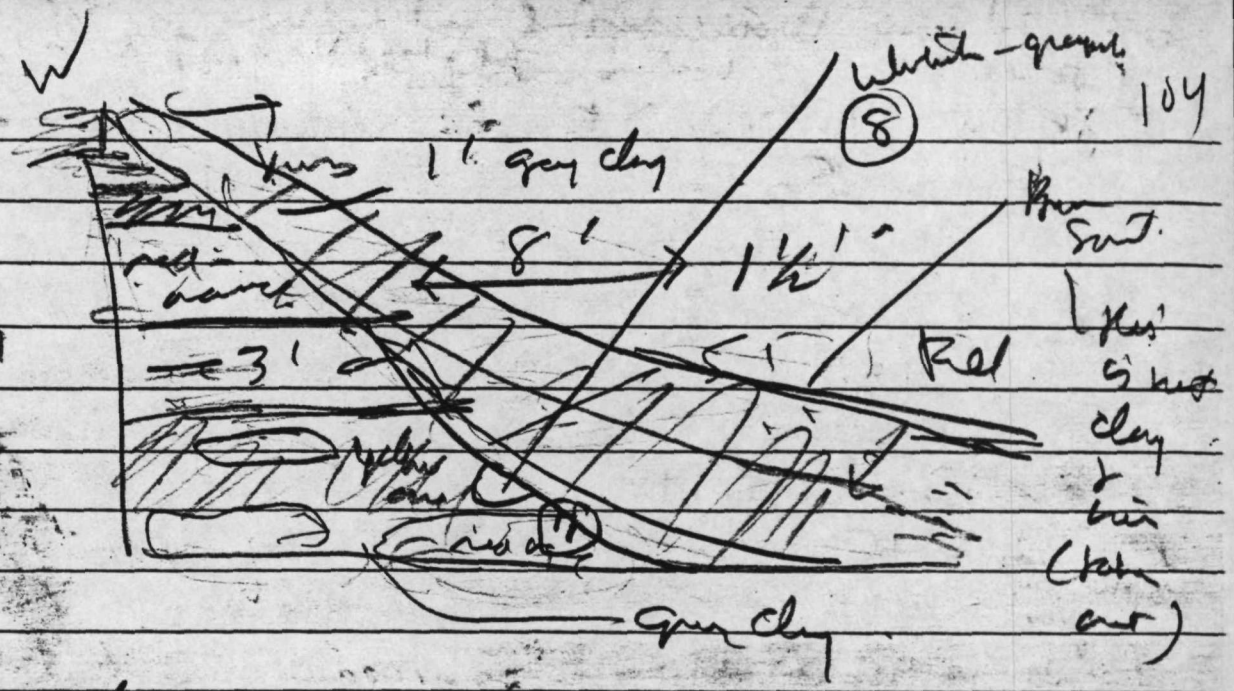
104

3. Check 12, T1 N-S. trench.

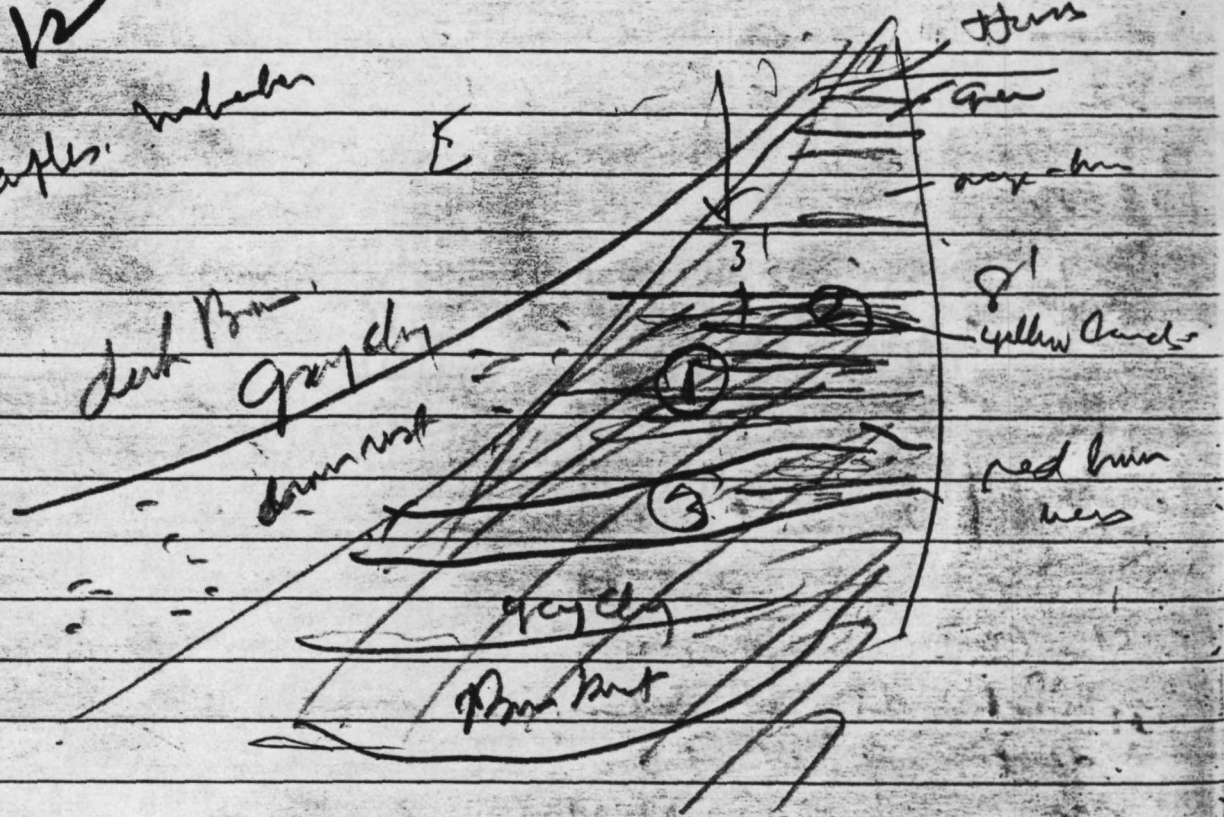


12 T2 2' wide cut to E of test 1 N-S cut to show Notched Strata.





CB 12
Samples: [illegible]



'30
104

Jeremiah — Archaeological workers April - May - June 27 — Raymond Clark — 105 — resource monitoring 1 Engr

Jerry Clingan, Foreman. — ~~Kenny~~

Raymond Sigler — Richard Keeny, Asst

Bruce Gordon

Russell Fisher — Raith,

Melvin Gladhill — 7th Clinton.

Sherman Sewell — District monitoring Engineer

Conard Baker

Ed Engle — James Sines

Monday 20 June 77

1. call Margaret Ballard 301-383-6899

* Ask her to call Dave Martin — "when".

* Martin Bastian wish for cut in "mine" area on Park property — delay in getting O.K.?

* Martin ordering of sect Bank of cut out area — definitely natural strat fill areas clear

for drill rigs? necessary? supplying have essential depth & composition.

ask him to 1 call me before 12

* [illegible] for additional help.

need 1 man now for mapping

* When do I get a check?

Cross sections — Elevations.

She leaves message at Cozy Inn Wednesday — Surveyors arrive at Cabinet Force.

I called Upton of Harris Engineer. Hold

They have no as for inference of 2-4 & want us. I sent J'd Budgets

3 months is time for drawing.

I called Wolf of Surgubana Lock at Havre de Grace — wants [illegible] as $200 fee for submitting proposal

" Have to investigate to see how far $300

mainly for limestone/ore mine — Have essential depth for as built map & profiles.

Fault called for 2 Book with one by 8:30 Summer

104

4. Bureau of Topography & Geologic Survey
the Geology of Mineral Deposits in South-Central Pa. 33rd Annual Field Conference of Pa. Geologists Hamburg 1968

a Series of Quarries exposing rock.

P28. Harpers Formation - Cambrian
500-600 mil years ago (Blue Ridge Province

Fig 10. Harpers PHYLLITE, a Lower Cambrian CLASTIC

P.39. White clay deposit, probably result of Fault in Phyllite member of Tomstown Formation in Phila. clay co's Clay deposits (related to Clays at Cataractic)

P.48-49 Possible origin of iron ore deposits.

"the Surface relations (of above) suggest that the white clay deposits is a residuum formed from weathering of an argillaceous sediment. Surface waters with of high oxygen content drained from the mountain slope and penetrated the Phyllite along fracture created by faulting and along bedding planes. Iron and Potassium were leached from the Phyllite so that illite was altered to Kaolinite (KAOLINITE) the iron, derived from the illite but chiefly from Magnetite (MAGNETITE) was precipitated from solution when the slightly acid ground water permeated the sandy carbonate beds of the Tomstown formation. Thus, the iron ore deposits in this area, mined during the mid-19th century, were formed by

Fault

Reft

21 June 77.

1. Met with Dr. John Fauth at Catoctin Furnace. He examined soil specimen from T1-2, C12. adds to specimen he took out on his own earlier.

2. Called Ballard to confirm meeting with Ken Crew Survey chief at Catoctin Furnace Wednesday 22 June at 9 am.

3. Stratigraphy at stream cut at end of ramp of Washington Pond C15. Massive stratigraphy in place at Bottom. Soil at top. Rock at Base. No iron ore seen

4. Soil Sample. –

(1). Blue clay – some oxidation shown – red-brown not ore zone. – talcos clay –

(2) Gray – but less pure clay, ~~silty~~, sandy, more heterogeneous in texture & color – more oxidation in red-yellow brown (tend to be silty rather than clay. – water can get at it better than (1)

Fauth on C12

(3) Red-brown where moist ferruginous clay – Yellow brown when dry. – like type of sand in Grove yard Ferruginous – gives color (like in Cemetery). Probably not concentrated enough for an ore If worked respectably get some. But now mostly coating on Hart particle.

(4) Lumpy silty clay – show evidence of weathering with limonite staining on outside. Interior of lump olive gray process of oxidation has not permeated through

Limonite

yes II probably oxidized gray is central not

red-brown

gray I no iron may not be uniformly distributed.

20 June 77 Shipped Page. 108

supergene enrichment and are probably similar in origin to those in Virginia described by Lesure (1957, p98. LESURE, F.G. (1957). Geology of the Clifton Forge Iron district, Va. Va. Polytech. inst. Bull. Eng. Expt. Sta. Ser. 118, 130 p) ....

REINHARDT, JUERGEN. Report of Investigation No. 23., Stratigraphy, Sedimentology and Cambro-ordovician Paleogeography of the Frederick Valley, Md. Maryland Geological Survey 1974.
Upper Cambrian Frederick Limestone,
Lower Ordovician Carbonates of the Grove Limestone.
Description of the Trenches

Soil Sample

(4) Cold. Blue clay carbon Pyrite (iron Sulphide) iron hydrated oxide = Limonite.

(5). Mottled gray talcos clay — Slippery feel Somewhat lumpy — cut lumps. Some seams of Carnotine — very little coloration of red-Brown yellow brown. not Similar to Sample No. 1.

oxidation mass

(6) Mottled yellow Brown clay with Hard concretionary masses masses irregular in Shape + contain Banded orange-brown, Brown Limonite which is probably the Ore. Matrix Silty — Not fine clay. fine Sandy clay. Water pretreatable.

iron ore shows crude Banding difference in color O-Br to R-B to dark B zones

(7) Sandy clay lumpy dark Brown — reddish Brown Small irregular fragments — limonite rich or completely iron. Fragments average 1/2 - 1" Some Suitable for Ore. the fine stuff they may have washed with

matrix red-brown clayey sand.

(Dematite has oxide, Limonite has some water. Hydrated can drive water off by roasting one – not chemically part of structure. Variation in color degree of Hydration – How much water ADSORBED. Darker – Less ADSORBED water. Yellow has more Hydrated)

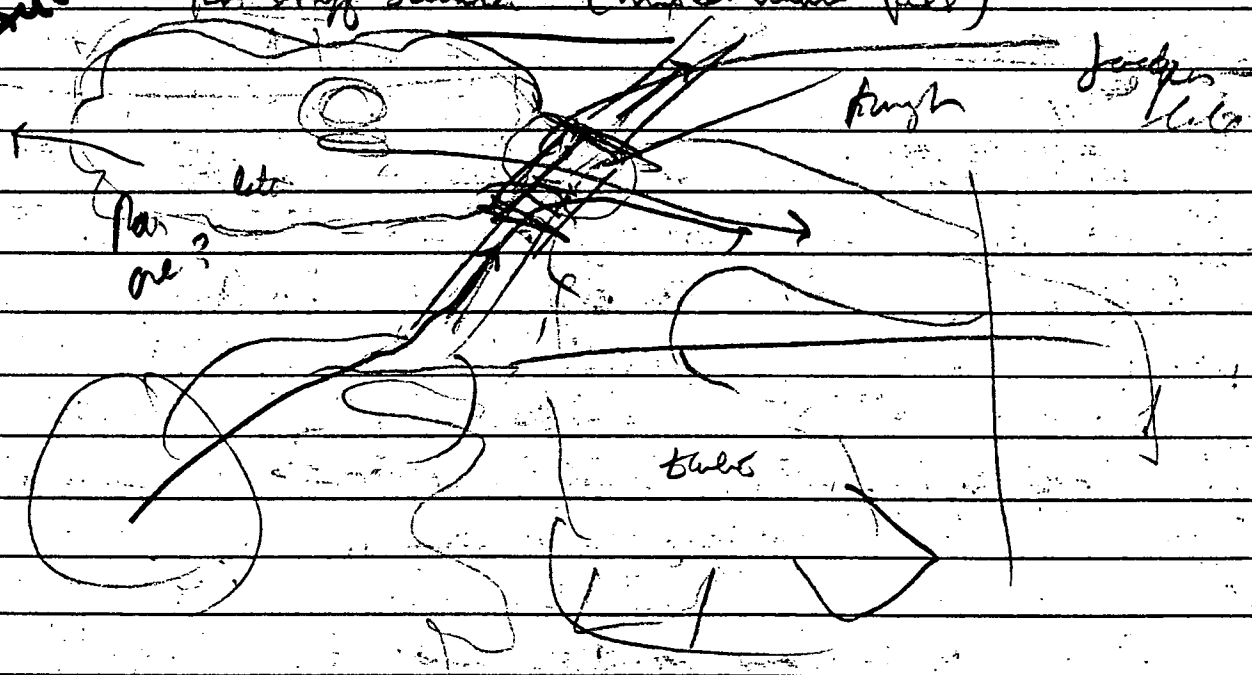
8. Most Heterogeneous material – Basically medium or dark gray clay. Lumps lighter in color. Some vein stamp – Some milky vein quartz. Fair amt of quartz – exactly as angular vein quartz fragments → produce glass slag.

Sample from N-S Trench. Fault trench generally corporalle. Some samples = Sandstone zones.

3 samples from E-W – Conveyor belt.

Fault

Pos stiff Sandstone – (mixed with fill)



Fault: trench over one road –

Pos: no longer

21 June 77

110

Q. Autumn mine — on little map behind Arlen

another mine.

Limestone in pits west of Barn, cable [illegible]

Yard — [illegible] Barn [illegible] right, [illegible] Limestone

(Limestone quarry [illegible] "[illegible] from [illegible] ??)

Iron tends to be [illegible] — critical factor [illegible]

to be oxygen potential — acidity not so

strong a factor.

10. Mr. Anderson. Iron furnace adjacent to existing furnace

10:02 whip creek furnace.

Rainer [illegible] before after

ANDERSON

William F Sweeney — Gulfstone [illegible] boilers. in telephone book

[illegible] — Akers: [illegible] — (is [illegible] Book)

[illegible] Mr. Miller — [illegible] — old [illegible] House.

First canal — [illegible] —

Late 1800's [illegible] a [illegible]

Early furnaces small slag. — [illegible] early furnace.

Later a large slag. ½ mile long.

Anderson — 1902-4, C 12. [illegible] ore mines.

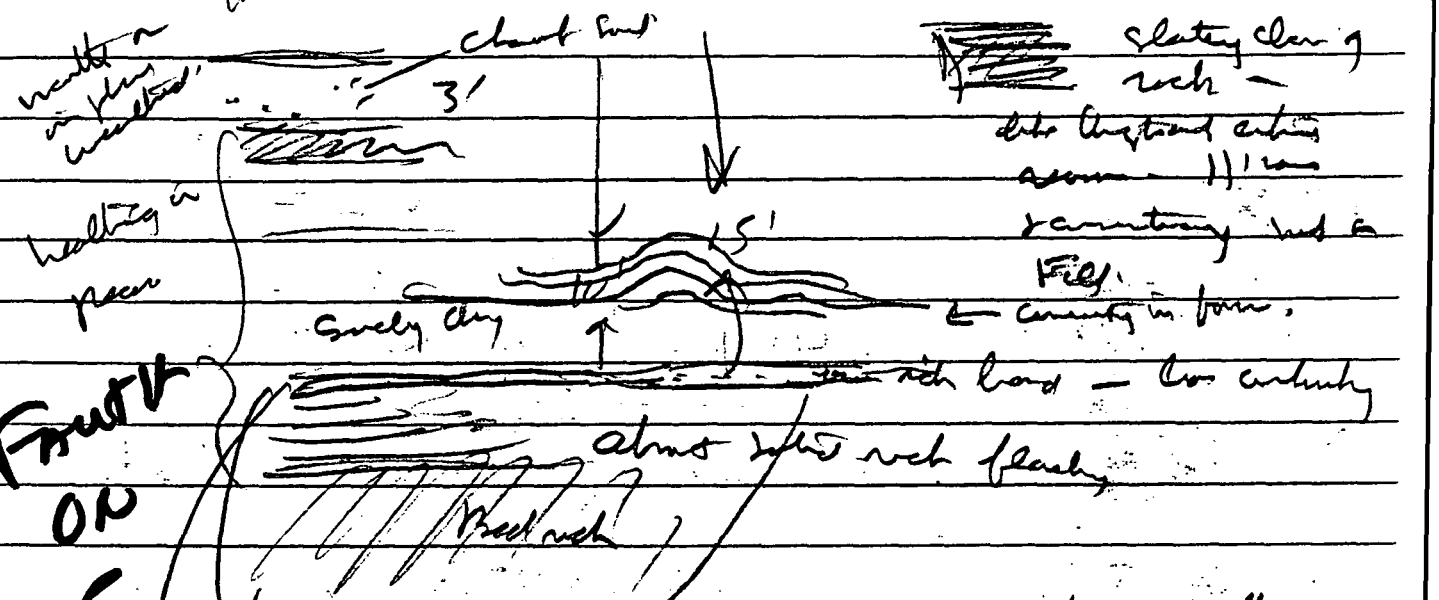
— last [illegible] for this furnace. —

Book

1951. Bicentennial of [illegible] —

[illegible] Souvenir Magazine.

11. Bed rock at C12 worker are found.
Bed rock – Cleavage, Slatey character – splits considerably in prescribed direction; carbonate consistent.
Bedrock is a gray Phyllite as easy to, some dark spots which might be [illegible] of iron bearing material. Produce gray [illegible] in [illegible] Hollow rock.



Bed rock.
Iron Band of iron ore – discontinuous.
Would not make a good iron mine.
∴ weathered in place, Bed Rock – Sand [illegible] [illegible]
→ iron gravel [illegible] well with weathered Bedrock
+ without any associated with limestone
[illegible]. Single wall [illegible] for [illegible] 7 tons
of ore for flushing. Clay + flint [illegible] to be flushed.
Sulphate could be [illegible] out.

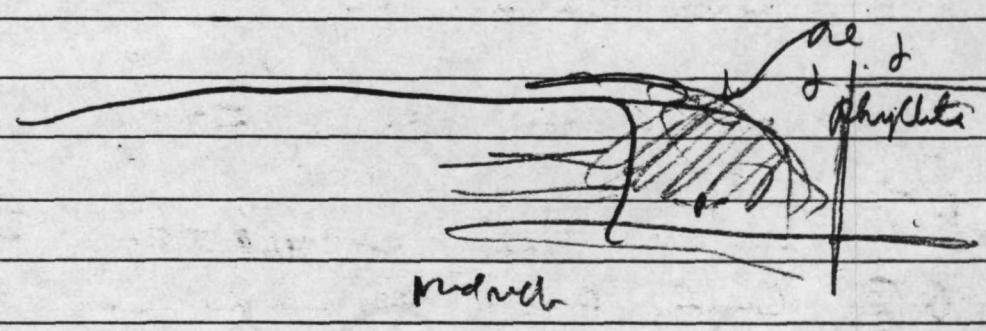
[illegible] Lebanon [illegible] 50' away [illegible]

original iron mine

Albion — Red rock —

deep in Ore mine — Big Pond.

Ramp



Fauth report —

Geological — Rock unit — ("LAUDOUN Fault" erroneous & [illegible] Fault & Ore — Fault)

But this is Harpers not Lauden

Harper — Side by side with L.S. Fault not required.

C18

12. Dr. Fauth visited mine north of Auburn Home called iron ore pit by Little. Fauth believes it is not iron ore pit but rather a "flint mine" mentioned in Singlewald. He found no evidence of iron ore but prominent outcrops of milky quartz veins.

In line with Bastian's interest in survey of iron ore pits he reports this erroneous conception.

(note Mrs. Gardner mentions of flint quarry used to supply quartz for putting making (by her conversation to the pharmacist.

FAUTH ON FLINT MINE

13. Dr. Fauth will submit invoice for 2 days work (he asked permission) and hopes for another day for writing up Geological appendage

114 117 111

14. Letter from SHA Mr. Campomarchi complimenting on Field Review held June 15. 1977 & reminding of 4 copies of draft report required.

1. 15. Call Mrs. Clark Kenney 663-6185 request Workers for Thursday & Friday. Day after tomorrow, Catoctin Furnace.

16. 8 19.85 Meals Ron Ames Mc.

Engineer Assoc. S.

22 June 77. Kern Green Survey Field Supervision

MAP-PING

L.S. Quarry

① Mr. Green says Sta. 467 ± 90. Lime Stone Station.

② Country drop of trees — old grave 80 483 483

"old grave yard." already located.

② ③. C1 T1 — center 2½' N-S 2½' E-W Sta 2+19

③ C1 T2 — center 2½' N-S 2' E-W Sta 2+65 middle of road

④ C1 T4 — center 7' by 3' EW

⑤ C1 T3 — " N-S 18' 2' EW. port. 1' to S

⑥ C1 T5 — center 9' x 2¾ N-S

GREEN

Side of fish pond. Open 25 6 150

6 paces W to corner of Fish Pond — Same to E

⑦ C3 T1 — measure out from this to T2 & water wheel Sta 7 & 8 (cas).

⑧ C3, T6 —

⑨ C3, T4 —

⑩ C4, T1, middle of Barton House.

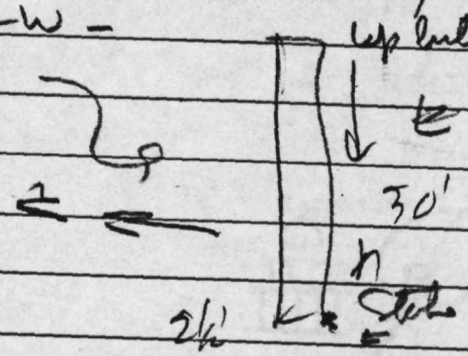
⑪ C17, T1 — race way at Kenner Son in law

⑫ (Cross Section profiles — get this for Cutoff) 20 x 10 — right angles each 50' Sta 150 — 200' each side. See ↑

C1 more node one

C17 — House of Kenners Son in law to be located

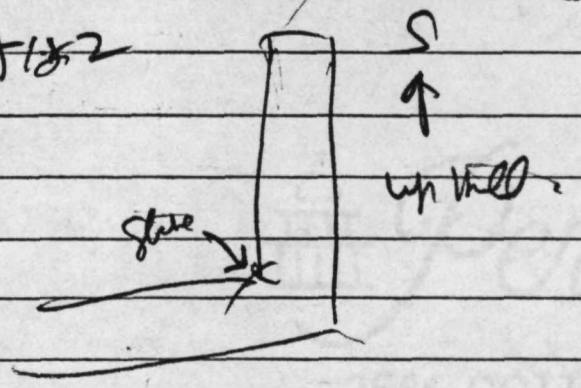
(13) L.S. Quarry – outline of Quarry, Check 9
(14) 2 walnut trees – Check 6
(15) Tree 1 marking boundary of R/W
Tree 2 15' W of 2 hand stone [illegible].
(16) C15 T2 – Base of channel up rail
E-W –



Green mapping

(17) C15 T1 – Slot on upright rail – [illegible]
telephone C&P
(18) C15 Pole 455B N end of ramp & one worker pit
(19) C15 retaining wall (Sta 562+)
(20) C15 location of one cast axles – Both axle marked but Both to be [illegible]
(21) C14, Paint Shop, middle of floor depression.
(22) C13, old leaning tree 1st tree over path at S end of Pond drainage area.
(23) C13 Straight tree 2nd tree at entrance on bank Pond
(24) C13. Cement Block of Pagoda for pumping water to his house on Hill. Ca 50' from end of Big Ore Pond.
(25) Check 7, SE corner of Cont 4 House

(26) check 20 test 1. workers house.
(27) check 20 test 2 - workers house corner
(28) C12, T182



(29). C12 Locust Road. S. end.

Crew: project planning will get Clarke — right angle from road.

(30) C12. beginning of Race Way — on E side of road. Last Stake.

∴ Hope to get crew working on it — new curbs of weeks to reset the line (recently Black topped taping out walls) this is what takes time.

12:30 Pm.

GREEN MAPPING

Miller

✓ Calculation Hollow road one border near Locust pump Houses — little before Rumbel.

✓ Silver mine — found mine, pulled out.

✓ no data on L.S. Quarry. "SILVER SHAFT FILE"

Both for Silver.

Pig stone "dirt helped get pig in"

No one seen that Silver.

Clinton Miller 69

116

James Edgar Miller Father worked in mines after Furnace
Near dam — Near Steam Shovel.
Grad father Charles Miller. — on parts of furnace
When in operation at Cutting House
Had moved in recently — No further Back
Kelly's other relatives.
[Frailey 97.],
German technology —
dam put in by
Bridges over holes — Tourist
"Lovers Lane"

Rumbul Mill

Want Road not
Swing Hole — diving Board. — Lane.
Cut

Miller

Pipe — Blind ditch. piped.
No water wheel.

Paint Shop. Part of water wheel there —
Some of Stone
Another mill — flour mill.
Stones at AKERS — TRESSELER.

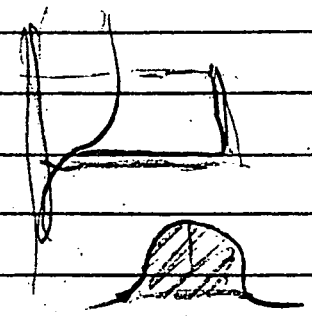
grinding stones at Akers place.

Up Catalina Hollow road. 2nd place as
right. Stone House.
Saw mill never saw anything of them.
White washer House — L.S. Lunt. — Right out of
Kiln. — couple lumps in at time, + stone
LIME TUB. — wooden Bury in ground.
During war II — Scrap iron pretend up there.

MILLER

Big one Bank — Gypsum probably worked in there.

George English ~~dug~~ rented pond — when school Boy
1920 rented pond to raise "yellow fists"
He drained pond — dug track through
old rice way
Raise in Summer —
take out in Fall. —
drained twice pond in fall.



Fish Ponds — Miller ~~[illegible]~~ caught frogs
— Fish business started when
he was young — "good Fish capital of world"
George English —
Frank Rice — pond — Sam got into business in Pa.
Brings Fish — & takes Business himself.
Tresseler in — Shipping
Straight Shooter
Mined Business
McPherson —
Leatherman —
Tresseler — went into it Big
Fish business [illegible].
Big win one bank — originally about 40'.
When kid — lowered popular. 30' —
I lowered it finally hit Bull
30-35' down there
Skating Pond.
How water — got in —
Big spring — supposing like that.
Our one cart — 2 axles —

probably not [illegible] on
not way deep

"washer drop" — always called it
that
[illegible] —
washer drop.

Millea

Tressler

118

Worker for Kimball — don't remember how it was worker.

Too expensive to get one — cheap one in Max in West.

Same cemetery — heard about it all right.

Kids talked about it.

Shuff's spring at worker Rd. — couple quarters of Shuff's lived from couple

Jakes Bright Place — Tore down Houses.

Good water.

Jake sold place & water put in by right of way to spring given to ~~[illegible]~~ occupants of Houses —

Houses at cabinets have from old old time.

Neal Wert — not noted for hunting — hunting

Might have been been stressing a little bitter.

Rings would have Mr. Wert.

Wagon & Miles —

Old Neal Wert with his ASS full of CESS.

Great talker

Probably Gerrie

Short heavy.

Good name of Houses

always talking.

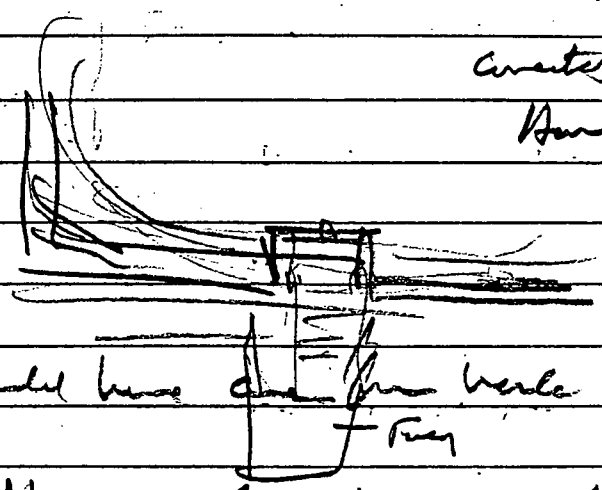
Bathing Home behind Spring — Bathing Home field.

Field at Tressler

Miller

connected with Bolting House

old Forge Fields Houses put in Fields.



Water cooled house [illegible] from [illegible] Spring

old Forge House where Trailer set

Foundation Seen — built [illegible] to [illegible]

Pretty good size Brazen Tree

House of Miller.

Nothing by way of Stone works at Ore outcrop.

McPherson Quarries — Flat Stone N of House

MINE BANK — Village —

Charcoal Burners up in Mountain.

pile it up — Smother with dirt.

Plenty of there but clean of wood.

1. Logger — cut Mountain —

2. Fire burnt it off

3. Pack — giving it Back.

Logger melts Barrel Stones — Should work at $1.00 a day

Helped Jones —

Pile up to dring —

Stave mill — cut stave wood
Throp — lumber end. — gave stave co. contract
Throp — started to saw — telephone
Law suit.

Victory Run Co. — [illegible]
[illegible] to beat other

Saw mill —
lumber
wire ties
telephone
[illegible] pines — for [illegible]
[illegible] lumber [illegible]

Throp sold it to HOUVER Jacques — went to Flinders in real estate business (Bay farm at Smith Mtg)
Made Sec. Ritchie (of Hoover) bought out Jacques $1.

23 June 27. SWEENEY

1. Called Mr. F. William Sweeney 271-2632. Offered to visit re. Catoctin furnace discussion. Too busy with tomato plants. Besides doesn't want to commit self-writing, looking of his church + Catoctin furnace getting lots of statistics "Don't want to say anything until its definite". Used to go Boating on Bubble Lake. Below it was Forge. Wife used to play in it in Marine at end of lake. No furnace down there. Supposed to be 1 a mile East or SE of rest of furnace. Large Ore Bank called "the Pit". Doesn't know of wooden pond at it (C12) but large one down near Kimball Mtn. Fed up on [illegible]

Naval Beach
Auxiliaries

Clay Ball Brothers — 77. Red Rock Hill
121 Mrs. Jones. lives by creek.

State & handling Historic property. Warm House — was beautiful
was already in good condition — State Tenth are &
it became a ruin — going to rebuild but already
had it built. i.e. Survey doesn't mean to say,
surrounding on Cabotage problem "Some people are from outside
think they know more than local people!"

2. Call Ron 263-9055 3rd cancel out this week end.
O.K. Visited Clay Ball Brothers for clearance of orchard sites
3. Visited Clay Ball Bros — not there.
4. Finishing Field Catalogue.

23 June 77

5. Photo of Artifacts

Artifact Photo

1. Test 4A, C3, Bags. 1, 2, 5, 6, 10, 12 gates
2. Test 4F C3, Bag 9.
3. C3, test 6, layer D (South test in Base of T6
Sponge iron fragments. Bag 114
4. C3, T6 La. D. Bag 116. Right angle iron
5. C3, T4F, F2 (Bag 7),
Bag 11 T4B, T4C.
6. Quartz vein chopper C5, T1C (Bag 120)
test 1K (Bag 118), test 1J at Flat gray
(Bag 125) — 2 of them, there are four
veins. representing sample fragments
7. F05, C20, T2, Workers House debris.
8. F05, C20 T1 glass, iron etc.
9. " Chickery & Slag green ornament"
10. F05. C7 Workers House Bags 53-63
relevant
~~11 F05~~

29 June 77 — Hypsometer rented and car returned (Monday). Field data sorted down and ready for writing of Report — which is to be sent to a working person for comments, (Handle comments & answer in Appendage section), then change only Anderson.

2. Call from Margaret Ballard. She is reading cross-sections (Lifty!) CONTRACT NO. F 522-083-771

30 June 77 — 1. Acknowledged INVOICES of Heite & Faust

2. Writing on final report. Check 1 on →.

8 July 77. Collect call David Martin 301-321-3436

OK. on drill rig. L.S. data.

1. Call Margaret Ballard. 301-383-6899

not there until Eddie

Line store analyses. } ask her to call Dave Martin
Drill operations. } & ask him to Phone me.

return at 20 odd

2. Dave Martin.

Don't fail with Pond depth until Salamander but checked.

Jefferson endangered species

Call Gary Taylor in charge of Non-game & endangered species, amphibia.

Also watch for falling trees on pond.

MARTIN

rebuttal to R/W?

re: Bartram letter to David Vaughan May 27, 1977

① Cor. Sta. 565+50

② Sta. 572+40, E 90

Need drill core on E edge of Pond

Need drill core on top of

① retaining wall platform & junction of Catalina Hollow & 15. to check other hit.

2. L.S. Report interesting.

Bring in notes. Profiles

③ need Plant depth in center of Pond. 566 also at Both ends.

④ Plant depth of little one pond.

⑨ ~~Little one Bank Part Sta. 560 E 200' on top of ramp~~ one worker

⑤ ~~one pit~~ Any cement dam Sta 577+50' E 150'

not in N/W

Tom assessing will have call back in 1 hour

Complex Aleyn Aleyn in N side edge one on edge

8 July 77

A. [illegible] Rd. [illegible] Co in April. $30 [illegible]

2 ~~[illegible]~~ Dave Martin called me. He had not received letter from Dept of Natl Resources giving O.K. to drill —
It was sent to Boston Street instead of this address

DAVID M. MARTIN
2323 W. Joppa Rd.
BROOKLAND VILLE
Md. 21022

12 July 77. Preparation of 2nd invoice.
1. Call Margaret Ballard. 301-383-6899
will send 2nd invoice today.
A. See Talley yellow sheet.
Problem 45 calendar days. — need up. 40. to July 1
& Martin wants to go on with drill core work
need extension
Charles Walsh.
Law Hewig.
Ask about project manager — Engineer —
B. Can't talk with him tomorrow — have him
call me.
Verbal O.K. given on proceeding with Martin
(& "[illegible]" drill core work)

Tuesday July 25, 77 — call Mrs. Kline
301-663-1393, Mr. Walsh.
one day or time frame for Hard College — Shipperstadt Archaeological Project?
Course for Spring?
Saturdays? for digging?
Confined to Shipperstadt?
Substantiating 14
$10,000 10%
3 hours 6 hours
independent
Volunteer
Course at Woods.
McKnight
Demolition site
anthropology
History dept.
Visiting Prof.
Historic
A Big Ring — Schiffer Stadt in Vertical Perimeters.

SHA

Ballpark figure

1 Aug 77. Call to Ballard 301-383-6899 —

10 days. ~~1000~~ $2000 ~~$1000~~ $200

$40 — 2 copies. —

Compare — Cut to

Send directly to Heite & Foutts. other

Notes to

She says O.K. to Ballpark figures on these:

Forming more Sunday days.

$60

Called Ms. Sarah Bridges, administrator

Vet Registry Vet. Parks Commn., Wash. D.C.

See P. 28 →

4 Aug 77, Thursday — Call Dr. John F Foutts 607-756-5222 ~~555-1212~~

Send proposal probably Monday — 607-753-2815 School, No answer

Review quotation section — Add on

change in letter to me &

overall interpretation Copy to

Campanelli.

Note to get. Paid

He is ready for review ↗

✓ Dr. Edward Heite — 0-302-697-1789

Call NED. 0302-678-5314

Position title? State archives.

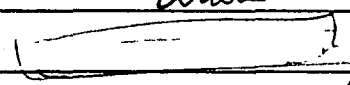
→ Chief of Bureau of Archives &

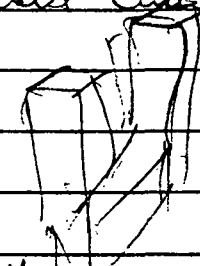
Record, Delaware

State

SDA — essential!

Federal Highway Admin
State Preservation Officer — Leland Gilsan
advising Council on Historic Preservation.
another organization affiliated with dept of
interior.





State Preservation Officer.

12 Aug 77

1. Called Pascal Ballard. 301-383-6899

Report? a. Because Dr. Leland Gilsan and Md. Historic Trust gets a copy. (Sarah Bridges Nat Park Service, not regulatory)

b. Other can expect political payment — ?
Would like to pay collaborators & assistance.

c. Messrs Cumberland — want me to submit in October. 51

D. Harms. Md 2-4 want estimate for

Would like to talk to project manager,
Permeability of Roads, men & machines
[illegible] comparable to Catoctin
St. Leonard.

13 Aug 77. Sat. Called Fourth — Certified N.Y.
Will send his check for 1st 2 weeks
on Monday.
He is OK. Left State people had to be
needled. 1-607-756-5222

CUNNESS.

16 Aug 77. Called Maggie Kline 301-663-1393

• What are Semester Dates? Fall & Winter.

Send proposal for Spring Semester to Maggie.

Mon Sat. } OK.
We Sun }

200
12
400
200
24

360
24
860

Days Ended January, Middle of May

12 weeks

2 | 24 days.

150
75
225
130
355

Food. 12 x 2 = 24
Lodging 23 x 2 = 46
Car 12¢ miles 60
Pump 860 130

School - Lab. rental Collapsible tables.
drums -
Arcimaspe -
water - Berm Sand Brush

Field Bags - Sleeping
Excavating equipment (Kits) -
Photo -
Wrapping - Filter.
Typewriter -
Office supplies
Typist.
Publication -
Lab equipment - Bi-focal microscope.
Boxes for Storage

120
60
180
130
310

355
12
410
355
$4260

Call Mr. Pipkin Fredericks Lung Press. 373-6660 re estimate

100 pages - 20 line drawings dozen photos.

Paper Back -

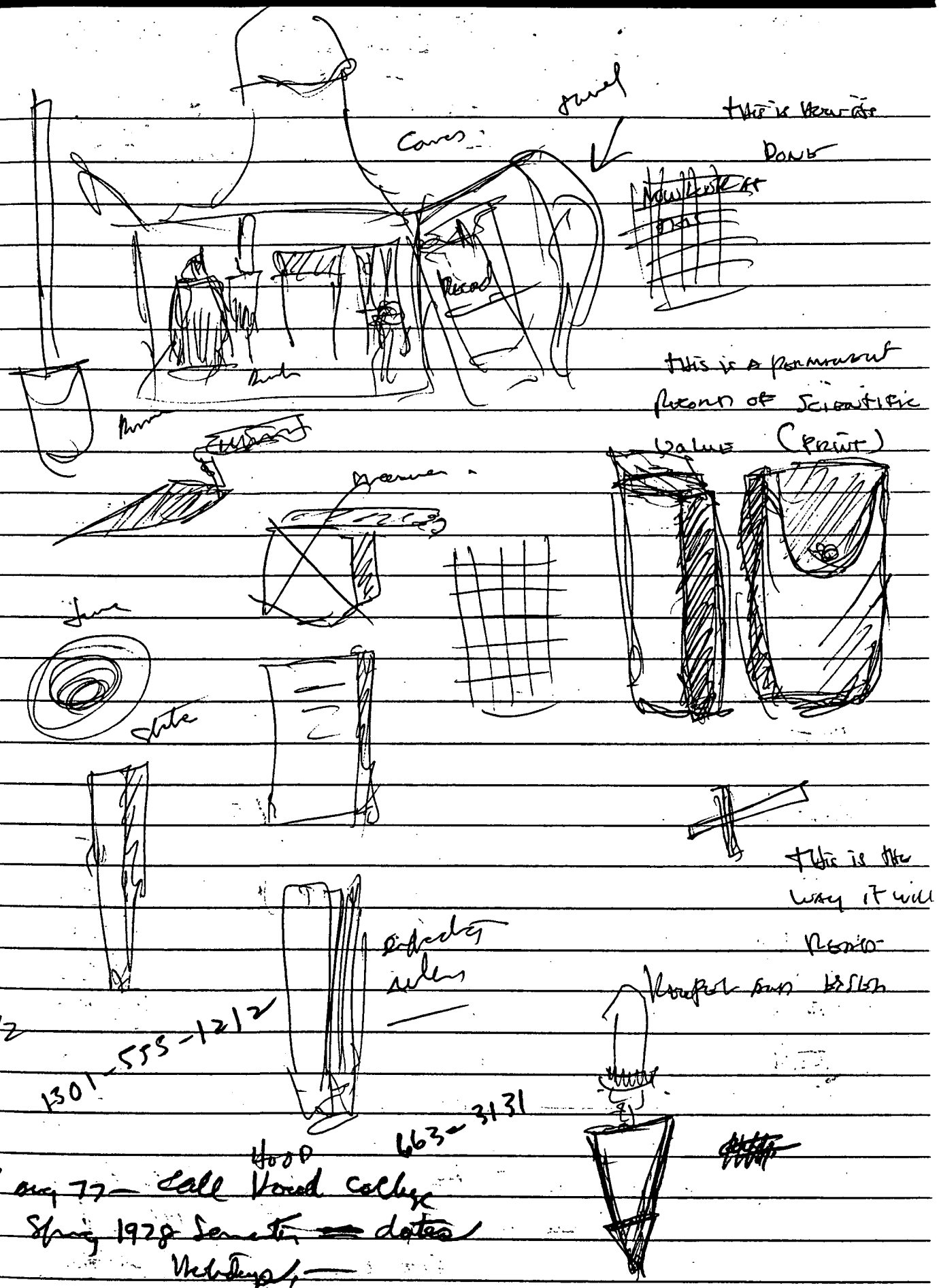
Hard Back 140 pages Back to back

Saddle Stitched. gold lettering, Blue

500 copies.

Publication Costs.

Non Lung work - 5



12

1301-555-1212

663-3131

Hood

17 Aug 77 — Call Hood College
Spring 1978 Semester — dates
Holidays, —
Final examen

1978

register Jan 16, 18 classes begins, Ed [illegible] [illegible]

	S	M	T	W	Th	Fr	Sa
May		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15					

15

Sh Mar 24 – dist 1 week

Jan 31 dump 1978	S	M	T	W	Th	Fr	Sa
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				
Feb				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28				
March				1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
April							
							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						

17 Friday

Cat. No. Field catogue F05, US15 Putnam Rd to 77 and.

check ~~test~~ 1

(1) 4/29/77 18Fr142 Surface, Quartz fragments & 3 furnace glass frags.

(2) 4/29/77 check 2 18Fr141 3 Surface 4 Quartz fragments.

(3) 5/9/77 check 3, test 1, ~~20~~ ~~10~~ E. of notch in Dam stone wall 1 iron spike and 2 furnace glass from Fill.

(4) 4/29/77 3 limestone fragments from Limestone talus in Retaining wall SW West notch, Catoctin Furnace.

Expect it Date next week

Geologist

Rats. reviewer - in proposal.

X

Aug 20 '76

Miss Ballard re - Core BORING

William Green, chief Bur of Soil

Brookland ville - N of Baltimore

321-3545, Coring Sample several years ago -

data at "

Sam Miller

321-3558

me to go out to see -

they can give break down.

delighted to provide with a

crew + long machine.

3 men + equipment

$1500 a week for clean ch.

5 day week.

testing not individual -

not analysis.

I be paid whatever expert.

max.

up to $2000

Bill Remett

Ed Jones - Hugh Mary, wallace of

O.K. for Spring Semester

M

Laboratory & site
Phase D: analysis and [illegible] — 5 days.

Phase E, Presentation of report — 4 days.

Figure to maximum.

1. Y. Sh.A. [illegible] labor
2. [illegible] lighting labor
125 week
125 labor
3.

Call on labor for [illegible]

+ [illegible] labor
[illegible] labor
Bath Hotel

Talk with Mr. Ballard, Aug. 19, 76

10 x 3.

2000 - 2500
3 weeks

2500 - 3 weeks

Swamp!

6217 - Excavation NOC

Extra

Review of Report — [illegible] — 11 days.

S.L. HELWIG

- 6894

Figure: Catalog [illegible] out? — closed.

Labor [illegible] R/W on U.S. 15?

Home Boring?

Bartcon

Want to call Sandy & Bartcon.

Preparation of [illegible] Program

→ Labor & Machines?

2
2
5
5
4
2
2
2
3
7
3
4
4
6
5
4
60

Phases of Proposed Intensive Archaeo. Survey

Phase A. Examination of Literature — 2 days. (archaeo. + Arch.)

Phase B. Preliminary Archaeo. Surveys.

Completion of Preliminary Survey of Segment 1 — 2 days

Completion Prel. Survey of Segment 2 — 5 days

Completion Prel. Survey of Segment 3 — 5 days

Completion Prel. Survey of Seg. 4. — 4 days.

Phase C. Intensive Archaeo. Surveys.

Segment 1 - 18 Fm 141-142 — 2 days (4 labour)

Segment 2 - Auburn Bath House — 2 days (4 labour)

Retaining Stone walls — 2 days (4 labour)

Segment 3 Structure at 554 — 3 days (2 [illegible])

Lime stone/pre Nets 559-568 — 7 days

old dummed road at 573 3 days (Hot Bath)

Sluices, dam, Race, Road — 575-580 — 4 days

Segment 4 Fifty hour Kimberley ore Bulbs. 4 days (Bath)

Addendum. Intensive archaeo. Surveys required by completion of Phase Archaeo. Survey — 6 days

15 days (Roads) 1500

5 days week Bed Hse. 2500

5 days week Bed

4 20 days

10 days of labour

assume, Catskill Furnace Road will not be cut

Segment 4. Little Kinkaring Creek Road (580 + 50)
to Route 22, thermal. a distance of 3 1/8 miles.

Reclining Survey of Segment 4 —
Archae. & Arch — 4 days

① Intensive archae. Survey of impact zone
Fitzhugh - Kimball Ore Bank 1 1/4 miles N
Office Buildings of Furnace — Ore, R.R., faults etc. at
B.H. Crossing — Archae. & Arch. 4 days.
machine?

Segment 3 - Gold.

Intensive archae. Survey of Sluices, Dam, Race Road
B.H. Race between 525 & 580 (C.A.), Archae. Arch —
H.E. machine — Mulberry — 4 days.

Continuing — arrow.

[illegible] (Center line 554 - [illegible]

Segment 2 cont'd.

Completion of Preliminary Survey of Segment 2 for comprehensive coverage especially Amerindian Sites. Archaeol. Asst. 1 day.

Segment 3. Catoctin Furnace Area (Centerline 554 - 580 + 50) to Little Hunting Creek.

INTENSIVE Survey. STRUCTURE at 554 to be impacted by dialogation R/W. Archaeol. Asst. — 3 days.

D.B.

INTENSIVE Survey Limestone-Dry Rib from Centerline 559 + 50' to 568 to be impacted by dialogation R/W (alignment not). Archaeol. Asst. Back Hoe Machine Workers. 7 days.

C.D.

B.H.

INTENSIVE Survey old Charcoal Road 523 + 50' impacted by dialogation Alt. 1. Corridor Archaeol. Asst. — Cross-section 3 days.

B.H.

Preliminary Survey "Dwellings Home" Stone Foundation + Bridge Stone Foundation just outside R/W for possible impact and significance, at 568 - 568 also — Archaeol. + Asst. — 3 days.

Preliminary Survey Segment 3 for Amerindian Sites & Archaeol. & Asst. — undisclosed Low-Amerindian Sites — 3 Days

6 dwellings Home depression for N of old charcoal road

Locate Scales, Coal Bell ca. 571, Coal Bell (Rainer map). Archaeol. + Asst — 2 days

also. Filled old mine shaft 555 + 95 - 556 in Alt. 1 align

Intensive Survey of Alternate 1, US 15 Dualization
From Putnam Rd. to Maryland Route 77.

Segment 1, Putnam Road to Furnace Road (centerline #434 - 534; 10,200') (Conrad 1975)

600
17.5 " Intensive Survey of AMERINDIAN SITE (5). Determine if 18FR 141 & 18 FR 142 are one or two sites & impacting by dualization. Archaeologist & Asst. - 2 days.

3000
4200
600
105000

Preliminary Complete Survey of Segment 1 - Check other listed sites along route for proximity to dualization alignment corridor (E.G. 18FR 137) another other sites possibility. Archaeologist & Asst. - 2 days

Segment 2, AUBURN Area (centerline #534 - #553; 1900') (Ref. Renner map, C.A. Fig 2 map & text) Dollman Ass. Alt 1 office map.)

Preliminary Survey Reported Sites of Auburn Area:
Auburn House and outbuildings; Ore Mine W. of Auburn House; Iron Master's House, "1760 Forge", Dam & Wheel Pit; [illegible], 1st Furnace 1760's, Race Way; Slace Cemetery, Pond, Ore Washer, Mr. Renner, Archaeol. Asst. - 5 Days. + Amerindian site

Intensive Survey of Above in R/W of Dualization. Estimated 5 days

Intensive Survey of Auburn Bath House (centerline #543 + 90'). Archaeol., Asst. - 2 Days. to be imported.

Intensive Survey of "Stone Walls" (Centerline #540 - 546, 600') Archaeol, Asst. - 2 Days. to be imported

Letter to Md. Dept. of Transp. -

with R/W

Sites requiring intensive Survey according to

Conrad 1975 & C.A. 1970

Putnam Road to Furnace Road.

Conrad. 1975 — 18FR 137

18FR 141 - 18FR 142

Furnace Road to Little Hunting Creek Contractor Furnace as

Contract Archaeology 1971

Railway Archaeological Survey

Aboriginal Sites Cunningham State Park: Furnace Road to

Route 22 thousand a distance of ——— miles.

Step 3 / Ore mines & features
Center line

Step 4. Old Charcoal Road Area
Center line

Step 5. Little Hunting Creek Area
Center line

Step 6. Fifty high - Kimbal Ore Bank Area
Center line

Step 7 Sites from Little Hunting Creek -
Route 23 Rivanet 3 1/2 mile vehicles, ...

Phase D. Laboratory and analysis.

Phase E - Write up.

27. Preliminary Archaeol. Survey Little Hunting Creek to Route 77 at Thurmont a distance of 3 1/8 miles.

Action: P.A.S. + Intensive if necessary.

Phase A. Examination of Literature - 2 days.

Phase B Site location + initial investigation Survey - 10 days. Putnam Rd to Thurmont, Route 77

Purpose: get location of Sites & unrecorded sites + in relationship to U.S.S. Plus data thru Plan archaeol. investigation of each

Fact Survey + Exploratory test pits

Step 1. Examination of Sites from Putnam Road to Furnace Road. - 1 day

18 Fr 137 (Site 1)

18 Fr 141-142 (Site 2)

Step 2. examination of sites locations in Catoctin Furnace Area with Mr. Renner. Sites 3-26 7 days

Step 3 Archaeological Survey Little Hunting Creek to Route 77 3 1/8 miles. — 2 days.

time/cost. 12 days @ 200 day Rm + d

200
12
400
200
2400

Phase C. Sites investigation Rt. to determine Salvage time + cost of impacted Sites

Step 1. Sites Putnam Road to Furnace Road. Centerline

Step 2. Auburn Area Centerline

Catoctin Furnace Road is not figured here,

Locate

21. Scales (R.). to direct N of Stack House (Charcoal House) about 571, 200' E of U.S. 15.

Action: Remove

22. Coal Bell. (R.) (what is it?)

Action: Remove

Examine.

23. 1 Stone + Brick Foundations (C.A.) 566, +50 200' E of U.S. 15.

24. Old Charcoal Road. impacted Ca. 572 + 75 to 573 + 75. (Little Says "further North" than on his own map).

Locate

25. Dwelling House (6) directly east of Old Charcoal road (Catoctin Furnace Rd) depressions ca 574 – 576 (R.)

Action: Remove.

26. Fitzhugh – Kunkel's Ore Banks — and U.S. Dualization crosses. Catoctin R.R. to Ore Banks, constructed Ca. 1850 (C.A. Fig. 1) about 1¼' N of Little Hunting Creek. Wasson Slump on E of U.S. 15. Ore R.R. crosses U.S. 15. Office to Buildings to W of road.

4 | 5230
1307
130
96537
50
153
150
3
600 | 6539
600

Action: explore by Survey & test pit.

26a. impacted Ore R.R. line [illegible]

Note: C.A. P.47. "Auburn has not been directly related to the finance to present. probably son of Col. Baker Johnson's House. (Haven't don't work on it).

13. Old Kelly House (R).

14. Stone Foundation to E of Center line 568 (C.A.) Conjectured as late 19th C. Just outside dealization R/W. (Little Sugar will be delayed) Action: check.

15. Limestone pits between 565-567 (C.A.) Action: define + advise on Salvage.

16. Limestone pits between 559-561 (C.A.) Action: define + advise on Salvage.

one large mine (R) from 559-561 (R)

17. Shrine, doors, rose pond between centerline 575-580 (576) (C.A. at little Hunting pond). Action: test pit etc. + advise.

18. Gar. of old House (old Kelly House?) at 554 + 50 125' E of U.S. 15

19. Check "Filled old mine shaft" centerline / 555+50-556 50' E of U.S. 15. (Slight pond conn.)

20. Stone Foundation at 568, 175' E of U.S. 15. — possibly impacted — (on edge of R/W. of dealization — "Dwelling House" (R)

6. Locate Dam and wheel Pit. (Renner)

7. Locate Race Way to Dam. (Renner)

8. Locate 1st Furnace 1760's. (Renner)

9. Conjectured Auburn Bath & Spring House. "[illegible]"
18' Square Cabled Roof House (C.A., Renner) Pl. 8B
? "Located within right of way of Present U.S. 15 just East of Auburn. Is this the same
Action: See Below.

10. "Auburn Bath & Spring House" (Renner, C.A. Wells)
[illegible] Centerline 543 + 80', 100' E of Present U.S. 15 (not within R/W of existing U.S. 15) But with R/W of proposed Realignment road — possibly but by road. (this will have to be moved).

Probably same.

Action: Salvage Estimate following — will be erased
Test pitting (D. of T.)

10A. about 250' of 2 Stone walls, 520 - 546 (2 parts) / Action: [illegible]

11. Locate Slave Cemetery (Renner). E of Auburn House at Spring located ca. 552 + 50'
[illegible], ore washers & Pond in Vicinity.
Action: Renner Survey

Locate.

12. Race Way (R + C.A.) about 1/2 mile of it. from 544 - through 559
Action: Renner

Intensive Archae. Survey.

1. 18 Fr 137. Centerline 444 + 10, C210'S U.S. 15. 115' Diam. Prospect Field. Small workshop, Temp. Camp in cultivated field adjacent to a spring. (Conrad 1975)
Action: Test Pitting.
Time/cost:

2. 18 Fr 141 (Furnace Road West) / temporary campsite / workshop on slope overlooking swamp gully cut by Spring Branch 1 Rhyolite point + 3 Rhyolite flakes, possibly late Archaic - Early Woodland. (Conrad, 1975, P3 for both sites)
18 Fr 142 (Furnace Road East). Cultivated field, small amt Rhyolite + white quartz chipping, workshop or temp. campsite. Recently Harrowed. Directly across US 15 from 18 Fr 141 Chips 100 yds east of U.S. 15. But may be continuous with 18 Fr 141. Location: Ca. Centerline 530
Action: Surface Survey between 18 Fr 137-141 (in field between Furnace Road to N & U.S. 15 to S.)
See if the 2 are one site separated by U.S. 15
Time/cost:

3.

3. Locate Iron Master's House (Renner Map). Believed to be 2 story stone house Centerline 535 + 25 185' W of U.S. 15.
Action: Survey with Mr. Renner of Auburn Area
See below: to 8

4. Locate Auburn Ore Bank (Renner, C.A Map) 250' NW Auburn House.

5. Locate: 1760 Forge (Renner)

54-55
Archaeological Trench

Ab 1. Charcoal House either completely destroyed & constructed with deep foundation

2. Old charcoal bed further to North than indicated in Figure 2 & was destroyed in part or totally by 1960 Carbonate furnace Road. (?)

3. at 568 Stone Structure Conjectured late 19th C. 25x20' oriented with Furnace Sand Pit — Noting also from 567-57,

Ab 2nd day area for archaeological testing between Centerline Nuts 560-563, & 573-575.

Within right of way — Contained physical feature specifically related to water control, races, sluices, & dams.
1 Limestone Pit — & 1 Conjectured limestone and/or ore pit.

UNITS specifically to be destroyed by dolomite.

Ab 1 Stone foundation to E of Centerline 568
[Note: Maybe Not - See R/W grazing it]
Ab 2. Limestone pits between Centerline 565-567
Ab 3 Races & Sluices between Centerline 561-565

Ab 4. Limestone or ore pit between 559-561
Ab 5 Sluices & dams & race pond 575-580

Ab PRIOR to 1826 — Structure 1 & 2 dependent on water System — the debris [illegible] be [illegible] Steam-power

Mr. Clinton Miller (Lindsley of Nemer)

51. 20th century Stone Millers at Gate of Auburn entrance — Just for N. "a Series of Stone beds & Earthen embankments that supported a large adjacent lake located between the Old & New route 15 ca 1845-1890

[Nemer calls this a Dam with wheel pit above 1760 forge & adjacent to 1st Furnace of 1760's

Ex SW of Dedmark Eos' Stone Foundation of unknown age — " mid 19th century — supported Log structure.
Such of the depressions are 2 additional depressions on E Slope of Limestone Pit (Building Foundation?) — one is partly of cordwood & Brick

Ex Dwelling House depression identified by Nemer & Miller adjacent to Spillway, recent holes to W of U.S. Route 5 (See list map)

Re - Just S. of Little Hunting Creek On W Side of U.S. 15 [illegible]
Race Ditches
Iron control gate
Stone & Mortar Dam
Spillway Race
Race Pond

Re Quarry on E side Race Ditches, race pond,
Silted one pit, R.R. Beds [illegible],
Spillways.
Race way (Transition Sump) goes
under [illegible] [illegible] [illegible] in [illegible]
pipe to emerge for water wheel.

Re. S. of Stacks - series of parallel race ditches
& a raised one cart path - later R.R. beds,
used in transporting Limestone & Ore from
Banks 600' S. of Stack 3

51. Re J 2nd [illegible] 600' further
South

Re Sandy Aspered area where are cave removed
by [illegible] in 1969 dig.

Re Sandy deformed bottom or original grd level of
this area - original surface covered by many
[illegible] 12' of silt - also find wooden [illegible] -
with [illegible] [illegible] - associated with
narrow gauge R.R.
Pulley eye & Bar also find - used in
Hauling [illegible] [illegible] for deep [illegible]

removed water

Dwelling Houses — See P44-48.

R45. THORP purchases & dismantles Catalpa Cabins.

Lists: Sketch 3, large dwelling House

Auburn ✓ or Mountain House.

a store

office Bld.

60 Mountain workers' lines.

Steam Shed.

Other machinery

According to tradition

Also: Grist Mill for country.

Paint mill — red/yellow ochre by products of ore beds.

[Paint Mill Area established — was Fosse 2 Cotton House used for this?

46 AUBURN HOUSE built 1802-04

by Baker Johnson on Auburn Trust (134 acres)

Present Auburn House was probably his Son House.

Original relationship of Auburn House to the Fosse is questionable

[not to original fosse]

47. Old charcoal road probably removed since it was feeder road for all logging roads.

48. RAILROAD of fosse connecting ore beds & fosse in maps of late 1873; 37, Bond 1858 & Macomb 1861

Bond is correct, Lake is not

4. other farmhouses
5. large garden & shop
6. Carriage House
7. Ice House.
8. merchant mill (Grist mill)
9. Saw mill
10. numerous subsidiary buildings

1856 — Ownership of Fitzhugh to Kimball.

42 1. the track of land.
2. 6 Heavy of horses & mules
3. wagons.
4. Harnesses
5. Coal (on hand)
6. 14 cords of wood (on hand)
7. ore mine
8. Furnace stack #1.
9. Raintrack cars
10 Furnace tools
11. Blacksmith & Carpenter tools
12. wagons, carts & farm tools
13. Ore Bank mills

43. (Limestone used to elevate phosphorus from iron.

1876 Frederick Co. tax assessment Book.

1. dwelling House
2. 2 Steam Engines
3. 30 ore carts
4 warehouse
5. Shop.
6. Store House
7. 50 tenant House
8. 3 furnaces.

Contact Archaeology

Growth Pattern of Catoctin Furnace Complex

P39 1811, July 13. Public Sale Notice in Frederick Town Herald, VX, no. 6

P40 Value $12,500

1. 2 Tracts of Land, including 1 Meadow.
2. A Large Blast Furnace & its Stack,
3. Wheel & Bellows
4. A Large 2 Story dwelling House with necessary outhouse attached to it, & a fountain pump at the Kitchen door
5. 2 convenient Stone House
6. a cupplying Mill.
7. a Stonesmith Shop.
8. Barn
9. Stable.
10. Corn House
11. 15-20 houses for accomodation of workers. all in good order.

Assumed; Charcoal House; Casting House, Forge Plenty of Wood for Coal Wood.

Also: ✓ "Ore Bank immediately on the spot was inexhaustible.

✓ Limestone Quarry not more than 200 yds from Furnace Banks (SW of Furnace 2) are pits directly west of Stack 2

1841. Republican Citizen Dec. 24

41 Furnaces not mentioned due to not in use - Apparently

1. 2 Tracts of Land.
2. Stone & log Ironworkers dwelling House
3. 2 Superior dwelling House (Conjecture overseers House

into Blast with all diligence & hope to effect it within a fortnight"

National Heritage Corp. 1979. (Cont'd)

P. 7. Baker Johnson Rmd 1793 – 1813.

Granted a warrant of resurvey in 1804 Baker Johnson potential twelve tracts 934 acres in the vicinity "Auburn" and then built a country seat near the Furnace site

Brian – McPherson Rmd (1820 – 1843)

McPherson rounds at "Auburn"

Peregrine Fitzhugh 1843–1856.

Kunkel Decades & Vicinity Years (3 years of [illegible])

(1556c Bond Map of Frederick County c. 1858).

defines 6,600 acres of Furnace Land, Carpenters railroad track connecting upper Ore bank with the furnace & "an important site defined as the "Old Forge".

J.B. Kunkel Mined Innovation Home near the furnace 1860.

Contract Archae. Note references to Hopewell Iron Complex.

Kurjack, Dennis C. Hopewell Village, Historical Handbook Series, U.S. dept of Interior Work. D.C. 1954, 44 pages.

N.D. Walker, Joseph D. Hopewell Village – A Social & Economic History of an Iron-making Community: U.of PA Press, Phila.

Bastion calls for archaeological survey to see if Route 15 Analyzation will affect the furnace in a detrimental manner

p 26. SHARF, J.T. History of Western Maryland, V.1. 629-630, 1882 EVERTS. States:
In 1882 Catoctin Furnace under JACOB KUNKEL extracted Brown hematite ore from the ore Bank 1 mile N of the furnace & transported it over a private R.R.

NATIONAL HERITAGE Corp., W. Chester, Pa. Catoctin Iron Furnace Cunningham Falls State Park, Thurmont, Md.; A Report on an Historical Survey, Dec. 1972

p 4. the Beginning 1770-1780.
1770 patent "the Mountain Seat" issued to Benedict Calvert & Thomas Johnson. [Renner's 1760 furnace]

p 6. James Johnson & Co - later years (1780-1793)
ALEXANDER, John H. Report on the transportation of Iron, Annapolis, William McNeir, 1840; p 78
a new furnace was erected in 1787 "about 3/4 s of a mile further up Little Hunting creek, & nearer the ore banks". [Furnace #1]

Contract archaeology 1971, p 33.
Johnson brothers did not acquire the land from Charles Carroll until 1776 - "impossible to assume
p. 33 Thomas & James Johnson built the Catoctin Furnace #1 therefore reasonable to assume construction under both on the furnace prior to 1776 by Lehman Parks
[A mystery 1st FURNACE - RENNER'S
Johnson (Thomas) addresses Council of Safety on July 22, 1776. Stating "my brother is getting his furnace

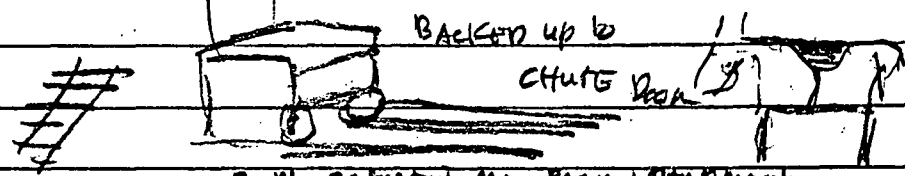
Alt 1, Basic Data

Contract Archae. Inc. Alexandria, Va, Oct. 1971
An Historical & Archae. Survey of Land Affected by the Realization of U.S. Route 15 at the Catoctin Furnace, 1971

P.60. Pl. 8B. "Conjectured Bath House to Auburn

Pl. 8A. Auburn Pond subsequently destroyed with construction of U.S. Route 15

Pl. 4A. Mule teams & ore carts prior to Ca. 1850; Narrow gauge R.R.



Supt. Catoctin Mt. Park, Thurmont

iv Mr. Charles Sandy, Photo of ore cart he excavated in 1969 during a preliminary excavation of a section in a limestone/ore pit to the southeast of the present furnace area.

4. Frank Mentzer, Supt. Catoctin Mt. Plant, Nat. Park Service:
"One unusual feature of the Catoctin Furnace was the close proximity of its ore beds, immediately behind (E) & to the south of the ruin is located one of these old ore pits. This unique situation presents outstanding opportunity for telling a complete story from mining the ore to its being cast into pigs. Any construction east of the present route of U.S. 15 would require filling the ore pit, destroying forever its possible educational value

6. Will Realization of Alternate 1 by determining ore banks, decrease interpretive value of the historic area & also destroy significant hist. & archae. info.

Aug. 12, 76

Intensive Archaeological Survey of U.S. Route 15 - From Putnam Road to Maryland Route 77. Cost Proposal.

1. Purpose and Scope.

2. Assumptions. etc.

Break down from my plan below:

Phase A. Preliminary Archaeological Survey

1. research & walk the project corridor to identify location of all visible & potential sites.

2. make a determination as to overall extent & significance of the general & specific archaeological resources in the area

3. ~~determine the [illegible]~~ & Grade sites as to

A. ~~A~~ visible estimate with minimum of digging to assess furniture & negative relations in regard to project corridor

~~B.~~ ~~B.~~

B. Minimum of digging

C. Cut dates on machine digging required. Labor, hour mach

4. Complete 3A above

Phase B. under take investigation of Sites - 3B above

Phase C. undertake investigation of Site - 3C above

to dump

Pa. Site 1, 2, 3

(2) Wallace 1961 (Garvan Ecology, Kinds of Sites)

3 — Orr & Orr July, 1975 (Surveying archaeology)

{ Rhyzomorphy, Kummel, 1970

{ Strahler 1973

2 — Kinsey 1975 Distribution del. Walley

(2) (1) — Kent, et. al 1971 — sites creations,

Pa. archae. (intrinsic) 1971 41:4

Willey V.1, 1966.

(3) Conemaugh Site. Wilkins Run Sam Farmer Farmer Sites.

(Site 4) Orr, K.G. 1952 "Survey of Caddoan Archaeology" in archaeology of the Eastern U.S. J.B. Griffin, ed. pp. 239-255, U. of Chicago Press.

Aug 2. Monday. Visit to Edgewood. Conference — preparation of maps, etc.

Aug 3. Tuesday.

Meet U.S.G.S. — from Arlington — Sturbinville West, Ohio

Jeffa, Ky.

"Sequoia, Mississippi" Chu

(Xerox at Edgewood)

Hinsdale, Wilbert B. Distribution of the aboriginal population of Michigan. Ann Arbor, Michigan U. of Mich. Press June 10, 1932

P30. Saginaw Valley.

Saginaw Valley was the most populous part of the State. There have been identified 120 old villages, in addition to other sites in Saginaw County ... the streams that united to form the Saginaw River & the SAGINAW itself, and the lands adjacent were an ideal environment for all that forest Indians might desire.

Fitting, James E. The Archaeology of Michigan. American Museum of Natural History, the Nat. History Press. Garden City, N.Y. 1970.

Fig 11 - 4 areas of distribution of fluted points in Saginaw Co. Mich.

(Saginaw Valley Chapter of Michigan Archaeological Society)

subsistence & settlement patterns of middle woodland

P116 expressed in Saginaw area

Shultz Site at Green Point Key Site

located at junction of Tittabawassee & Shiawassee Rivers where they form the Saginaw River which drains into Lake Huron

Early woodland - middle woodland

Hunting site in Valley Sands (Bundy) near Saginaw

Fletcher Site at Bay City in Saginaw Valley

Pa. archaeologist. Bull of Society for Pennsylvania archaeology Vol. 41. Dec. 1971. No. 4
"Sheriff Terry Culture, a view from 1971,
Ann Arbor, Michigan
(Send MS. on Lehman Valley survey to ?

Note in Passing — Bibliography of Historical Sites Archaeology.
Section I Historical Sites Artifacts
II Historical Sites excavation
Reference —
Organized only by Author
But perhaps useful.

American Antiquity
Saginaw, Mich.

SF 568 H66 — Hinsdale, Wilbert B. Archaeological atlas of Michigan Ann Arbor, U. of Mich. press 1931
Excellent — Saginaw Co — need Xerox.

GN 2 Mb2 No. 2 — Hinsdale, Wilbert B. Distribution of the aboriginal population of Michigan. Ann Arbor Mich. U. of Mich. press 1932

E78 M6F54 — Fitting, James Edward. The Archaeology of Michigan, Amer. Mus. of Nat. History, Natural History Press 1970

6 7 Mills, William C. Archaeological atlas of Ohio. Ohio State Archaeol. & Hist. Soc. Columbus 1914.

(6) (7) Dragoo, Don W. Archaic Hunters of the Upper Ohio Valley," Annals of Carnegie Museum Vol. 35, pp. 139-246, 1959

check in main library → 507.73 P4 P6843

Chapman, Carl. 1948. A Preliminary Survey of Missouri archaeology Pt. III. Missouri archaeologist Vol 10, No 23, Columbia -

Portage des Sioux.

Lewis T.M.N and Madeline Kneberg

(8) 1946 - Hiwassee Island, an archaeological Account of 4 tenn. Indian peoples. U. of Tenn. Press Knoxville.

Kent, Barry C. Ira F. Smith III, Catherine McCann Foundations of Penna. Prehistory, Anthrop. Series of Pa. Historical + Museum Commission. No. 1. Harrisburgh, 1971

Site 7. Mingo Junction

Kent et al P.108. Fig. 1. Map showing the major Ohio Valley archaic sites.

• EAST STEUBENVILLE Shown on Ohio River. This is probably in Whistler in Wan Library

Site 1 Nanticoke

Kinsey, W. Fred et. al Introduction (compendium) Shenks Ferry Culture A view from 1971

(1) P5 Fig. 1 Sketch map of Shenks Ferry Culture area

Late woodland in Susquehanna Valley

Susquehanna R. drainage up to including Wilkes Barre area

map of Lower Stem area (includes Conewago but no Sites shown)

Ward: come next Monday — final report by Aug 6 Friday
Further work after several months

July 26, Monday, Mr. Bob Donald — Info
1. Palmerton site location — 19 Conewaga site
2. Dr. Ward — Nanticoke site location
3. Location of Mingo Junction Site — Mr. ASAKA
Capt. Steven English — Warren —
Bartlett —

Information on Site location given by Bob Donald, Mr. Asaka, and Capt. Steve English — recorded on maps.

Conferred with Dr. Ward on future plans.
telephoned to several places
to confer next Monday — got extension of project to Aug 6. Further work on-the-spot after several months.

July 27, Tuesday. Returned car. made several phone calls. Began revised of data.

July 28, Wednesday. Was several phone calls, wrote up review of status of sites studies — preparing to final go round. See arlington map distribution for U.S.G.S. on Saganaw mitigation for next week.
Site 1. — 11 reviewed. Status assessed.

Site 3 Conewago Industrial Park, Pa.
Witthoft, John, "A Paleo-Indian Site in E. Penn" in Kent et al pp 13-64
P20, map of SE Pa. — Shows location of isolated fluted points — within 25 miles of this site.

Site 7. Mingo Junction —
~~Witthoft, John "Notes on Archaic Culture's Ohio~~
~~Abbott~~
~~Fig 1. map showing the major Ohio Valley Archaic Site~~
"East Steubenville"

Zweeks - Phyllis Schultz 39-256-4895 (39 Hours) 39 Hours Hours not 7 8 36

Lest we forget.

Orr, Kenneth G., the Possibilities of Dating Archaeological Remains by measuring their radioactivity. Proceedings of the 6th Plains Archaeological Conference - 1946 U. of Utah Dept. of Anthropology Anthropological Papers No. 11, Oct. 1950.

Orr, Kenneth G. the Historic Upper Mississippi Phase in Native Illinois
Lasalle Co. excavations 1947. Pp. 100-104
Proceedings of the 5th Plains Conference for Archaeology, Note Book No. 1
Lab. of Anthropology, U. of Nebraska 1949.

Smithsonian Institution distribution of Stone collections
Portage des Sioux - St. Charles Co. Mo. - Neg.
Gw of Memphis, Shelby Co. Tenn. - No
Mun. St Louis Co. - No
Jefferson Co. - Ohio. - No
Trumbull Co - Ohio. - No
Henderson Co, Ky. - No.
Lancaster Co, Pa - No
Carbon Co, Pa - (Ramsey)
Luzerne Co, Nanticoke. - No
Rogers Co, Okla - No
St. Mary - Va - 1 Specimen Co. from Shell heap at Charenton
Beach on Shore of Grand Lake 1 mi E of Charenton Cat No 334290.

Site 11 Portage des Sioux - 20 miles N of Cahokia Mounds.
MOORE HEAD, WARREN K. The Cahokia Mounds.
U. of Ill. Bulletin Vol. XXVI No. 4. 1928

ORR, K.G. Symposium on Northern Mississippi Valley Archaeology. Springfield, Mimeographed. 1950 (Ft. St. Louis - Stated Rich dig)

(6) MAYER-OAKES, William J. Prehistory of the upper Ohio Valley; an introductory archaeological study.

(7) Annals of Carnegie Museum, Pittsburgh, Pa. V.34. 1955

map 2. Late Prehistoric Site distribution covers area (Both sides of Ohio R.)

902 area - Mingo fortune

map 3. Middle Woodland Sites distribution covers area - & well up into upper O. Valley

map 4. Early Wood Sites covers area

map 5. Archaic Site distribution.

map. 27. Distribution of Sites in Northern Ohio Counties in upper Ohio Valley. Trumbull Co.

33 = Ohio 33 TR 3-9 to North & East of Warren

		Type of Site	Type of Data	Period of Site	Recommendations
Check where these are →	33 TR 1				
	33 TR 2	Data on file at Ohio State Mus. Columbus. Ohio			
NET County	33 TR 3	Camp	Surface	?	Surface
	33 TR 4	Village	Surface	Archaic - EW Woodland	TEX test excav.
Not Warren 5 Counts	33 TR 5	BM Burial mod	Excavation	MW	Earthworks
	TR 6	Camp	Surface	?	Surface
SE Co.	7	Camp	S "	?	Surface
	8	Camp	S "	Archaic	Surface
"	9	Camp	S "	EW	TEX

∴ Area is Potentially High impact Risk - See data of Ohio State Archaeologist Dr. Ormerod Book P. 6.

ORR, K.G. "Survey statements of the Present Status of Archaeological Research in the Starved Rock area, La Salle Co, Ill Microfilm — U. of Chicago Library, 1949

Site 6, Warren Ohio, Trumbull Co.

Site 7, MINGO Junction, Jefferson Co.

Fowke, Gerard, Archaeological History of Ohio.
Ohio State Archaeol. & Historical Society. Columbus, 1902

Perused & "negative".

SHETRONE, H.C. Primer of Ohio Archaeology, Ohio State Archae. & Hist. Society, N.D.
Fig. 1 numerous Mound "dots" shown on Ohio River.
S. of Steubenville in Jefferson County on left Bank of Ohio

6 7 MORGAN, RICHARD G. OUTLINE OF CULTURES in the OHIO Region. (Griffin, James B. (Ed.) Archaeology of Eastern U.S. (Chicago, 1952) P. 83-98.

S. of Mingo Junction on Ohio River

Fig. 199. — OHIO fluted — Paleo-Indian & Eskimo archaeo
Fig. 200 — RAISH-SMITH Late Archaeo.
Fig 201 — Early Woodland. — ADENA also SW Pa.
Fig 202 — Middle Woodland (Hopewellian)
OHIO — Hopewell.
Fig 203. Beginning MISSISSIPPIAN
MOUND INTRUSIVE 950 AD.
Early Ft. ancient (to S)

in area of Mingo Junction → Fig 204. MONONGAHELA. 1950 AD
Late Ft. ancient (to S.)

July 23, 1976, Friday

Site 10 – Hoyt Lake, Minnesota

Tech

LOTHSON, G.A. the Distribution of Burial Mounds in Minnesota. The Minnesota Archaeologist. Vol XXIX No. 2, 1967. P. 29-47.

Burial Mounds. a broad Archaeological Tradition in Minnesota prehistory 800 BC – Historic Period Since 2500 years

Practically No excitement in NE Minnesota when Hoyt Lakes located.

P. 30

32 Superior Upland – Physiographic division of H. Lake Lake Plains area – Swamp by Sandy Moraine, Coniferous forests

with only 110-90 days Frost free a year.

∴ May be Archaic Sites here but later points – No.

Check with Dr. Johnson Aust Strom Hoff (?)

LANDON, R.H. the Mining and Fabrication of Copper by the Aborigines of the Lake Superior Region, the Minnesota Archaeologist Vol VI, No II April, 1940.

Map. P. 29. Copper mines area to E of Hoyt Lake

P. 36 But definitely in Part of State considered to be Plate 5 the Copper outcrop area.

BORINGS to get stratigraphy

Plate 2, p.116 Site distribution
Beach Deposit on Grand Lake 9 miles north
& Shell Mound Site on Bayou Teche
loop ca 5 miles N. and Shell Mound.
Shell midden 7 miles SSW.
Tchefuncte Mound Site. ca 18 miles WSW.
2 Troyville mound sites, 6 & 5 — above

71 Shell midden No 5. located on former distributary off
Bayou Teche. midden is now submerged below marsh
level. recovered pottery gathered from natural drainage
during construction of Intracoastal canal.
No 6. at Charenton Beach large deposit of
Shell along shore line of Grand Lake
French Fork & Black Strip pottery also from new &
Coles Creek
P125, Pl.10 c: Troyville mound site occupation of area

Fig. 1. Comparative chronology chart.
Troyville — 700–850 A.D.
note earliest is Area's Tchefuncte — about 0 B.C.
youngest — Caddoan — Natchez, Plaquemine, Coles Creek,
Troyville, Marksville, Tchefuncte.
man has been living in coastal La. for a short
time compared to elsewhere 2000 years — much of evidence
being rapidly destroyed by submergence,
alluviation, erosion & war

Co Vertical Deposit Pits.

[Stone collection Smithsonian Institution: "4 Spec. from Henderson Co

Rolingson, Martha A. and Douglas W. Schwartz.
Late Paleo-Indian & Early Archaic Manifestations in
Western Kentucky, U. of Ky Press, 1966

(How close?)

Fig. 2. Paleo-Indian Sites - Parrish Ky.
Fig. 3. Archaic manifestations.
Barrett & Butterfield - fibers
general area.

158 Including Dalton Elements (7 - 6,000 B.C.
Archaic begins as early as 5,200 B.C. in W. Ky
also Quad & Cumberland fluted points in area

∴ Barrett High Impact Risk area.

Louisiana, St. Mary Parish Charenton Drainage ditch, Site 5

McIntire, William G. Prehistoric Indian
Settlements of the Changing Miss.
River Delta. La. State University
Press, Baton Rouge, 1958

E
78
L8M15
S0A

A Compilation of major explorations in the
area.

Plate 1, p115 Coasted to index map.
Site 5 area about 3 miles NW of Franklin in Big Bend of
Bayou Teche (where Charenton Drainage canal cuts in)
only about 8 miles Gulf of Mexico water.

BASKETT, Ky, Site 9. Henderson County

BLACK, GLENN A. Angel Site, Vanderburgh Co, Indiana an introduction. Indiana Historical Society, Indianapolis, 1944.

Fig. 1. Map. Angel Mound site, 4,200 feet E-W by 3600 N-S.

Kellar, James H. An introduction to the Prehistory of Indiana. Indiana Historical Society, 1973.

p. 71. Angel Mounds State Memorial. Large Mississippian Tradition site, Houses, Stockade, Temple mound.

56. Population estimates at least 1000.

[Black, Glenn, 1967, Angel Site, an archaeological, Historical & Ethnological Study, Indianapolis, Indiana Historical Society (where is it?)]

Paleo-Indian, Archaic, Woodland, Mississippian Tradition, well represented here. Begins about 10,000 years ago.

[Schwartz, Douglas, Wright. Conception of Ky Prehistory. Lexington U. of Ky Press 1968.]

Strong development of Study of Prehistory to present (1967)

P73. Webb, William S. Visual Unionization of western area. Early Hunter, archaic & middle Miss.

Contrast with Willey

[State collections, distribution of - Smithsonian institution — No material from Rogers Co.]

OOLOGAH, Okla. Site 4. Rogers County.

Prewitt, Terry J. Archaeological Survey of the OOLOGAH Reservoir, Nowata, Rogers Counties, Okla. General Survey Report no. 10. Oklahoma River Basin Survey Project. U. of Okla. Research Institute, Norman Oklahoma 1968.

P.42. Total of 11 sites located within limits of new Flood Control area of Oologah Reservoir.
Components of Archaic through Historic affiliation represented by these sites.

P.4. Previous work in and around Oologah Reservoir area has disclosed sites relating to the following units.
1) Grove Focus lasting from perhaps 5000 B.C. until the shift to an evidently woodland economy
2) Woodland components extended to date from around 500 A.D. into early Gibson Aspect times.
3) Gibson Aspect, 4) Fort Coffee Focus showing relationship to the Plain area & to other Fulton Aspect Foci, 5) NEOSHO focus showing relationship to upper levels of the Ozark Bluff shelters & a general Upper Miss. Phase affiliation 6) Europeans & Aboriginal contact sites. No Palaeo-Indian remains have been reported but they probably exist. Isolated fluted projectile points are reportedly found in private local collections of artifacts.

∴ Maximum risk site area at NE Power Plant probably for Archaic & Palaeo-Indian finds.

July 15 – Returned car – got receipts. Worked on map locations – involving several calls to Carpenter – my distribution not revealed. Strong thought I was come out & asking for hard directions. Phase of Study to date:

Phase I – Location of P.C. (aboriginal) sites on U.S.G.S. Quads – scanning of maps. Checking location and extents by telephone.

~~July~~ July 16, Friday – telephoned State Archaeologists and equivalents, etc. See telephone record end of Book

July 19, Monday – Visited Edgewood Arsenal to turn in "interim report" to Dr. Ward. Met Dr. Carl Pinkham, capt & zoologist, in U.S. Medical Corp. who is working on same project. Pinkham borrowed data from U.S.G.S. maps on location of P.C. sites. Ward said would try to get more specific data on P.C. site locations. Called Dr. Barry Kent, State Archaeologist Pa. for data on 4 P.C. site in Penna. Ward also said looked like on-the-ground reconnaissance might be mandatory – after July 30

July 20, 76 – Returned car – put in calls on La. Site. (See telephone record). Worked on background of Lithuanian Studies from references in my library (Willey 1965, etc.)

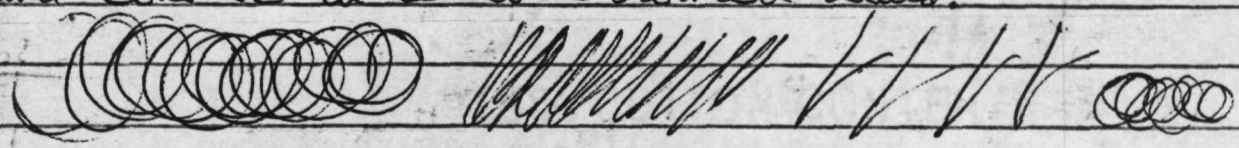
July 21, 76 – Wednesday: Spent day working calls – See telephone section to rear →

July 22, 76 – Thursday. Lib. of Anthropology, Smithsonian institution. Record, written, etc. & collections.

Get I.D. Card from Provost Marshall's office on Wednesday.
Nature of Action: Intermittent Exc Appointe 7-11-77. eff. date 07-12-76
Expert 76E-342, Pay Plan EC-0193, $145.38 p.d.
Report to DEMIL/Disposal, Ofc. Bld. 501 Mrs. Caudill
"Dr. Ass serves as an expert in providing the evaluation of the Archaeological significance of the sites proposed for potential construction by ERDA. Services include literature surveys, Scouting of museum collections, telephone & written communications with anyone knowledgeable about the Archaeological Status of any of the Sites, site surveys, and written reports & evaluation after the various stages of the Study.
July 29 - Check for 1 week. - leave
arrived Edgewood Arsenal - just before arrive in - car started to cut out - tried to start it - cuts out.
mileage - 13626
July 13, 76, Reston mileage: 2994
Ca. 530 Home. 3022
Short day at U.S. Geological Survey getting maps -
got 11 @ .75 ea. = $8.20 with receipt 3083
Gas: $3.00 at Falls Church receipt 3022
2.00 at Bonaparte Rd. receipt. 61
transportation Kanbar to marine heights to pick up
car EML 936 cost .50 ¢ on Bus. no receipt
car is Nobbit Brown - 2952 mileage
July 14, 76, Phoebe's Birthday. mileage to Reston Va
& return. 3022 - 3083. Completed SECURING Securing of
maps for project - 19 maps @ .75 ea. have receipt
returned 4 pm - left this morning at 9 a.m.
worked with Jim Y — at map & Photograph
mapping center for help on head to find locations -
Situation Surveying to date.

(July 6 - contd.) Southern Maryland Electric Cooperative, Inc.
Hughesville, Md. 20637. 301-274-3111, I talked with Robert E. Mitchell, Director Public and Personnel Relations, about a proposed archaeological survey on 230 KV transmission line in Prince George's Calvert and St. Mary's Counties. I was recommended "by the State." I indicated that I would be interested. He thought about September the Chief Engineer will contact about 6 names (same as Borland above) & make a choice. He: I hope we can be of service, as far as possible."

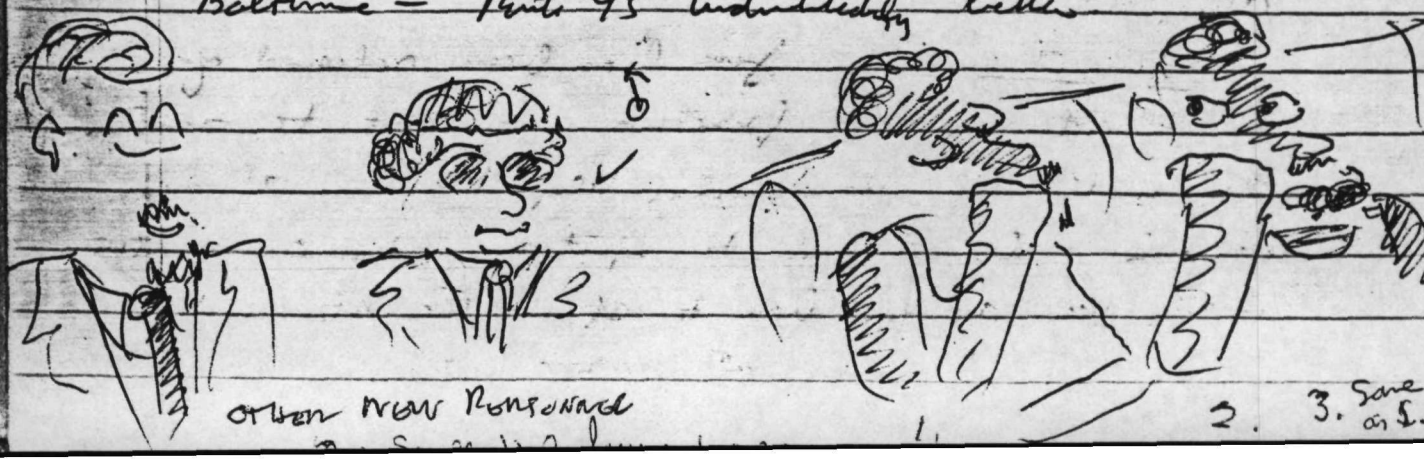
Now I am writing the way I was taught - on the ham of my forearm, with virtually stiff fingers and control in a well rounded hand.



It is supposed to be more relaxed and easier. And I can feel this immediately (immediately).

Fuel Tax VW July 12, 1976, 7:50 a.m. reported to Aberdine Proving
EML 217 Ground personnel division. Left Home at 6 a.m. 1/4 tank gas.
Mileage at Home: Tunnel Fee at Baltimore — .75 receipt.
Mileage at Aberdine: 13611 Remedy Hwy 95 to Aberdine
from Baltimore .25 no receipt.

Note: I took Washington - Baltimore Parkway to Baltimore - Route 95 undoubtedly better.



OTHER NEW PERSONNEL

2. 3. Same as 1.

10:25 a.m. July 6, 1976, Tuesday. A cool summer morning in old East-over Washington groggily recovers from the Bi-centennial birthday par and we are well launched into the 3rd Century of the U.S.A.

I am taking this occasion to project our dear family into the future in a renaissance of activity encouraged by several interesting phone calls this morning.

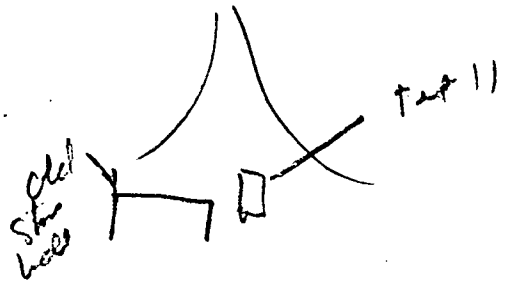
Catoctin Furnace. Ms. Margaret Ballard called (283-6887, Baltimore, Maryland State Highway Commission) asking if I were interested in an intensive archaeological survey of the proposed dual highway at Catoctin Furnace on U.S. 15. Tyler Bastian suggests at 10-15 day + dig to guide the choice of 3 alternates. She knew of my work there and said I had the "qualifications" to continue on, time schedule not for a month or two, but they have the money. I told her I was very interested. She will advise a get together with Engineer involved if I am chosen.

I would like to write clearly so that there could be no doubt about what I am saying. This means a slowing down and also choice of words.

Dr. Brick. Brick who sent me a bill for $209 with no explanation is send me a multipaged letter — giving details of what they did for Mary Alice, the Sweetheart.

Jim Chandler. Jim has been relieved of his Education director position and sent to another desk in USAID. He sounded very terse — always laconic — he seemed to epitomize non-communication. Really, Ken, do you have to storm the stone wall repeatedly? Try some other organizations.

Checks	Tests	Features
1. Geary site at 15 & 605 on right (E)		
2. " on W.		
3. Dam & "Forge"	1 – at water wheel	1. Filled in area & [illegible] S of Dam
	2 – "	
	3 – Left "wheel" & [illegible] part	2. charcoal zone
	on edge – 4A-F – [illegible] Parts	2A – Little pit
	5 A+B on top of Dam wall	
	6 – "old wall" fence – [illegible]	
	7 – "Spring" by old [illegible]	
	8 – rose [illegible] 16' S of old [illegible] & Spring (?)	
	9 – edge of terrace	
	10 – Stone wall stratigraphy !	
	11 – S of creek at wedge 806 & 15.	



Brighten the Corner where you
are
Some far from Home
may need a guiding Star.

SOPA. contributed
Sec of Prof.
Andrew Alpine
Board.

Anthropological Journals

Kenneth G. Orr
5003 Winthrop Street
Oxon Hill, Md.
July 6, 1976 —

B18