

#9

M. F. Tabor Quad

Hyden

No. 1

UNITED STATES  
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1941

Field.  
notes

- V-2 1000 ± N of NW Cor. of Mt. J. quad  
 Upper 20' ± CH to top of B. Atoka  
 (May be complete CH) Atoka Channels Blvd  
 on this mountain S. of section. Photo DBI-1C-178  
 is good exposure of Basal Atoka contact.  
 EW. trending fault mapped by Nisner extend beyond his line.
- V-3 Route 7 S. of Jasper. —
- V-4 Pitkin base to Atoka — Fair Blvd,  
 (Rattlesnakes!)  
 Come in from top on Forest Service Road
- V-5 Basal PG ± Atoka  
 Limestone above? Prairie Grove — far  
 above base of PG. ls. looks like Pitkin
- V-6 - New Road cut (fall 1956)  
 Atoka good — CH good in part at least  
 May become good if road is cut through
- V-7 - Fair Cone Hill, good PG. Basal  
 Atoka SS — Faults in road cut  
 Not enough to hurt section  
 (Passenger car can get through)

V-1 Upper 10' CH to B. AtoKa  
Where CH goes under - it is truncated by PG

V-2 1000' ± N of NW Cor. of Mt. J. quad

V-3 Upper 20' ± CH to top of B. AtoKa  
(May be complete CH) AtoKa E. Harold's Blvd  
on this mountain S. of section. Photo DBI-10-178  
is good exposure of basal AtoKa contact  
NW trending fault mapped by Shist extended beyond this line.  
Route 7 S. of Jasper. —

V-4 Pitkin base to AtoKa - Fair Blvd,  
(Rathskoskas!)  
Come in from top on Forest Service Road

V-5 Basal PG ± AtoKa  
Limestone above? Prairie Grove - - Fair  
above base of PG. ls. looks like Pitkin

V-6 - New Road cut (Fall 1956)  
AtoKa good - CH good in part at least  
May become good if road is cut through

V-7 - Fair Cone Hill, good PG. Basal  
AtoKa SS - Faults in road cut  
Not enough to hurt section  
(Passenger car can get through)

V-8 (off guard to west) to Weyton -  
Barthman road - Atoke guard -  
Bloyd Fair - DG may be good  
No CK or PITHs

Wed Oct 22  
1958

Out of Jasper

Rained Tues. afternoon & all night  
light rain during morning sun  
out at 11:00 AM. - On Hwy 7 south  
altimeters differ all along etc.

At Deer section meas. by  
Haley & Atkinson on road from Deer  
to Limestone.

Pitkin - Conc Hill contact

Conc Hill

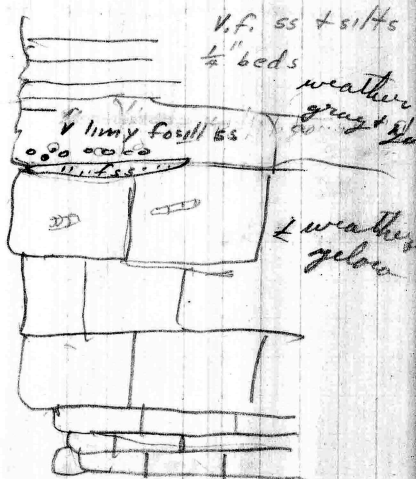
Conc Hill

Pitkin

Pitkin ls

1-2' beds, dk gy,  
V. fossil. abndt crin  
columns to 1/2" diam

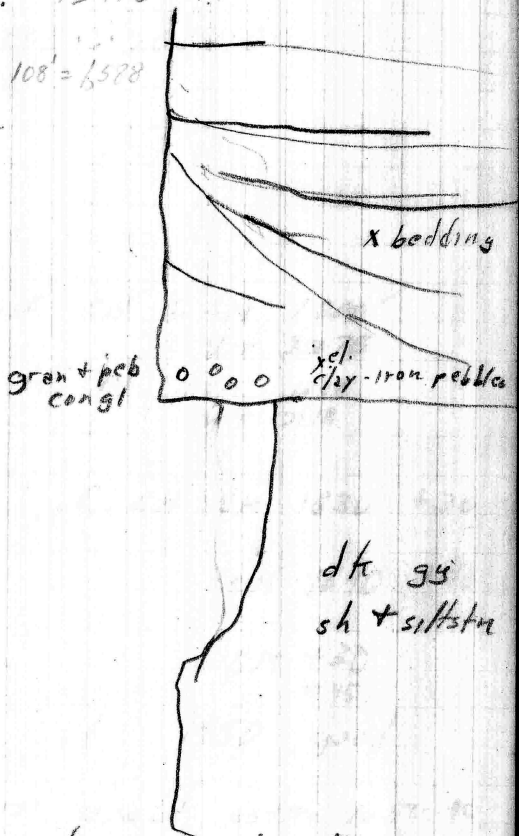
12.07 6M 1348 + 110 = 1458  
WT 2215 + 110 = 2325  
877



Top of C.H. 12:10 PM

S.M.  $1,480 + 108 = 1,588$

W.T.  $\frac{2,367}{887}$



At Rd intersection on Hwy 16

SM:  $2016 + 90$

WT  $\frac{2885 - 785}{875}$

Elev 2100

1:40

SM:  $\frac{2170}{2015}$   
875

Elev. 2285 + 2

10-23-58

10:20

BM TT 88T X1931 2039.642

knocked over

W. T. 2690

9:20 SM 2040

11:40 SM 2106

WT 2760

On road top of CH : SM 1600 ✓

WT 2270

top of Pit : SM 1430

WT 2118

11:42

12:00 On road top of CH : SM 1630 +30

2:05

SM 1640 +40

2:19

SM +30  
+45'

3:05

Top Pitkin at 1450 good

Top C.H. in doubt estim 1650-40  
covered by float

3:20 +63'

3:30 +68'

2105  
2042  
63

10-24-58

At Pothelon 8:10

El 920

SM 790'

+ 130'

Rock in front of Coal Hill Church 8:50

SM 1100

At farmhouse end of road

post coal Hill church

50-80

bluff of

At Farm (coalite)

C.H. weathered

rock to form

bench

11:30

SM 1320 top at Pothelon

+ 1160

1480

check case Hill on west side of valley.

at locality off (east) of Hwy 7 at McElroy gap. Congl at base of P.S. has what partake



1380  
177  
1477

Nov 27 - 58

Intersection Hwy 16 + Steel Creek  
Mtn rd.

SM ~~2285~~  
2285  
2125  
+160

8:25 AM

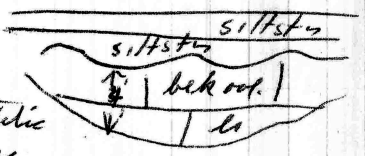
~~200~~ 2040 at intersect = 2,200

Temp bench where cow path enters  
field 2,010 + 160 = 2180 8:45 AM  
= 2161

East side of point on Steel Creek  
Hill 50' south of bend in logging  
road - <sup>down gully</sup> good exposure of Cane Hill  
uncomp. on Pitkin

H-58-1  
10-13N-21W

1190 at 11:45 2 1/2' {  
889  
1379



Siltstone is quartzitic  
ranging to v. f. ss.

temp bench 2045 at 01:55

Down gully east of Y on St. Cr. Mt.  
top of massive congl. P.G. SS

1570  
208  
1778

1570 3:08 = 1778

1310' at 4:15 still in C.H. siltstone bed 1 1/2'

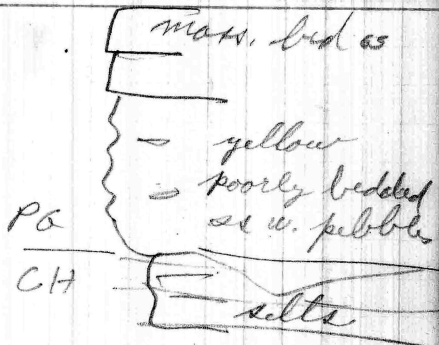
212  
1310  
1522

Nov 27, 1958

1440 at 4:40  
211  

---

1651





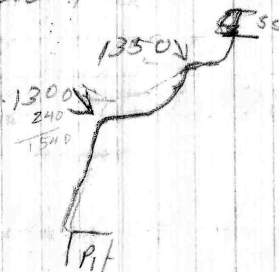
11-29-58

10:30 F (north side of large gully)

1,190 top Pitkin  

$$\begin{array}{r} 1,190 \\ +250 \\ \hline 1,440 \end{array}$$

11:00



PG

11:18 F (north side)  $1380 + 267 = 1647$

11:22 E south  $1380 + 265 = 1645$

11:40 D south on hill  $1400 + 261 = 1661$

PG beginning to come down

11:50 C Big gully  $1410 + 254 = 1664$

12:15 B south side  $1400 + 215 = 1615$

12:35

road

$$\begin{array}{r} 1420 \\ \underline{1205} \\ +215 \end{array}$$

1:00

$$\begin{array}{r} 2106 \\ \underline{1905} \\ +201 \\ \hline 1996 \\ 2197 \end{array}$$

2:25, 
$$\begin{array}{r} 1865 \\ \underline{1710} \\ +155 \end{array}$$

2.

16-13N-21W

11-29-58

Down stream off ~~the~~ west  
side Robinson rd. - all ss  
to Black Fayetteville sh.

✓

4:15

Back logging road  
Base of P. D. Tent. 1085  
first good ss ridge

4:35

Base of 25' bluff of fine x-bed  
ss. 1140'

Oct 30, 1958

At end of field south tip of  
Steel Ct Mtn SW 1/4 10-13N-21W

8:08 + 216 at BM

8:20 at cow path

216  
1986  
2182

9:15 Point A base of P.C. 1510 = 1705

10:08 B - top of Petr. ~~H-7~~

1170  
138  
1348

Dk gy x bedded + thick (2') bedded  
ool. sandy ls. overlain by  
dk gy siltstone, poor bench seen  
only in gully because of boulder wash.  
ls top is uneven     

H-57-3  
H-58-3  
SW, NW, SW  
10-13-21

10:30 C

1170  
170  
1340

10:55 D

1180 x bed silt appears  
to be documenting to east  
160  
1340

11:15 E

1193  
10-20' ledge  
153  
1340

Purkin + 1-3' siltstone form

SW, NW 10-13N-21W

11:40 E' about (100 yds no of E)

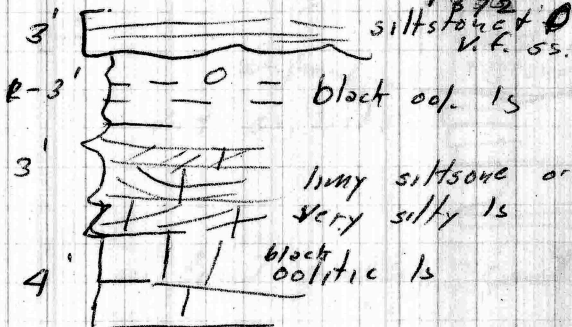
1230'

~~142~~

~~132~~

1372

H-57-H  
H-58-4



1208

F

1235'

~~130~~

1365

lose Pit

1:05 approx base of mass  
X-bed ss <sup>11600</sup> above F

Cor path  $\frac{2132}{2092}$  at 2:00 PM  
 $\frac{90}{2100}$  2:37

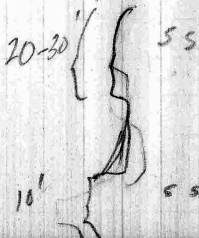
3:23

SE corner of steel ch. mtn spur

2 benches: approx  
base of lower  $\frac{1760}{-90}$

1670

contin next page



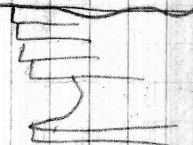
SE cor 9-23N-21W

3:30 Upper bench unconf at

1790' G  
180  
1870

unconf -  
v. f. ss, silty

Atoto  
massive  
med S, w,  
abdt qtz peb.  
+ granules



3:54

1890'  
73  
1913

in first gully east  
rain

4:28

2180  
2107  
+73

at cow path

1:10

2190  
2158  
32

~~Down go~~



Nov 3

8:02 at BM + 86

2158  
85  

---

2073

8:04 + 85

2158  
89  

---

2238

8:14 at 2158'  
845 2100 (<sup>85</sup><sub>-58</sub>) 200  
+35

9:05 Down gully 1800' <sup>congl ss</sup>  
silty sandy ~~at~~

9:20 base of X bed ~~of over~~ v  
f. thin even bed. At. 1730'

10:15 Top of Pitkin

1310  
35  

---

1345

cover  
1' dk ss ls  
E silty ls

10:45 back up point base  
of f-med rusty ss ledge 1505'

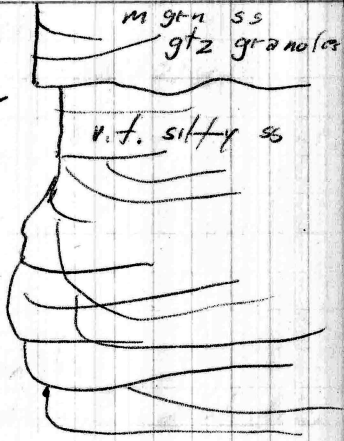
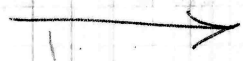
3:20 1460 top of C.H.?

11:15

~~1608~~  
 1780  
 + 22  
 1802

Now 3

m grn ss  
 gtz granules



20-30'  
 cliff of  
 v.f. to siltstn  
 X bedded

12:35

~~2158~~  
 2,152 at bench  
 + 6

1:25 Jeep

2,100  
 - 35  
 2,065

Nov 4

South end of St. Ch Mtn  
at 8:15 +40' SW cor 9-18N-21W

9:05 A on top of Pitkin, blk fgr ss rests  
on undulating sfc  
of blk cal. ls.  
petroleum smell to  
both

1400'  
+30  
1430

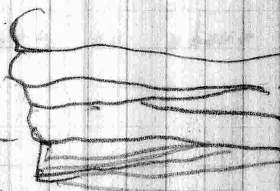
9:15 B 1400'  
-28  
1428

9:30 C. 1409  
-25  
1434

9:53 D 1745 base of P.G. ? dash line  
+23  
1768

E  
10:10 1837'  
+19  
1856

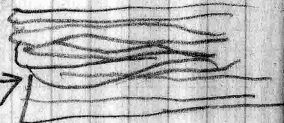
migr ss w  
qtz granules  
irreg. bedding



thin (1' to 1/2") beds  
of v. f grn. silty ss truncate  
against ss

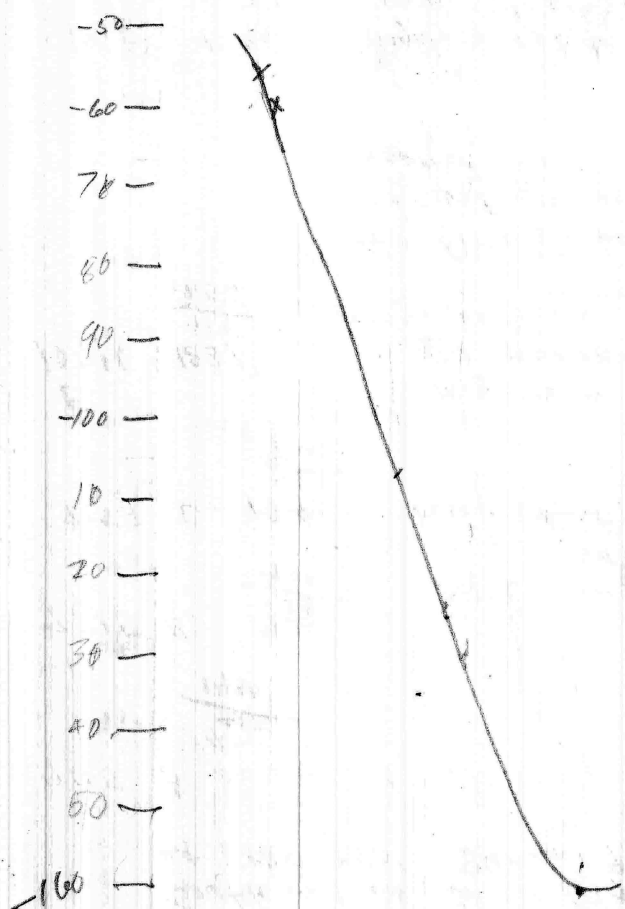
10:25 1940  
+15  
1955  
Atoka P.G.  
PG CH

Highly irreg bedd.  
congl. (qtz pebb) →  
ss over 1/2' to 1'  
reg beds of fgr ss



Jeep 2070 at 10:55 on +5

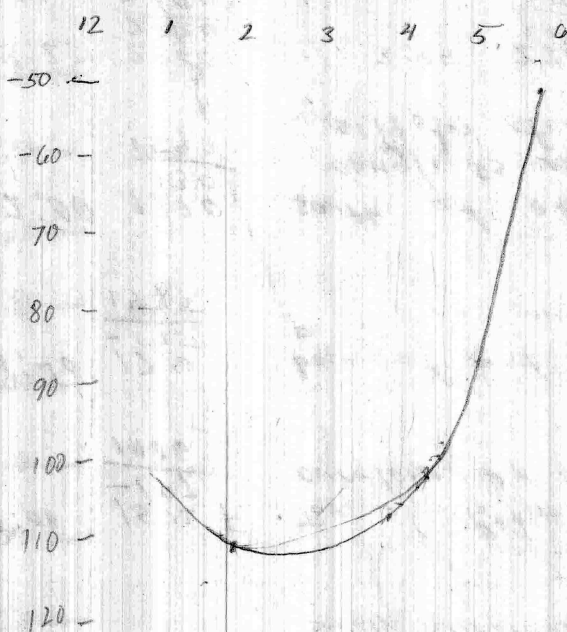
10 11 12 1 2 3 4



Nov 4

11:45	-55	1224 at jeep	2250
			-60
11		11:40 at jeep	2190
			2270
12:45	171600'	In Cone Hill, thin v. ss & siltstones over dk gy shaly siltstones	
1:08	1512	F Top of Pittin unoverl. sfc overlain by siltstone	
	-197		
	1406		
1:40	1710	base of m-f grn ss above F	
	-125		
	1585		
2:00	1720	south of above congl. ss on unoverl. siltstr sfc.	
	130		
	1590		
3:23	2360		
	2220		
	-140		
3:45	2360		
	2220		
	-140		

5:43 2300 -52



3-13N-21W

1:53  $\frac{2375}{2245}$  2:00 at peak 2352

Down creek (head of Steel Creek)

3:28 1580' slump blocks of ss in stream probably cover Pitkin contact no

H-53-5 3:52 1528 Black volcanic ls overlain by black petrolif. siltstone  
 $\frac{1528}{-107}$   
 1421

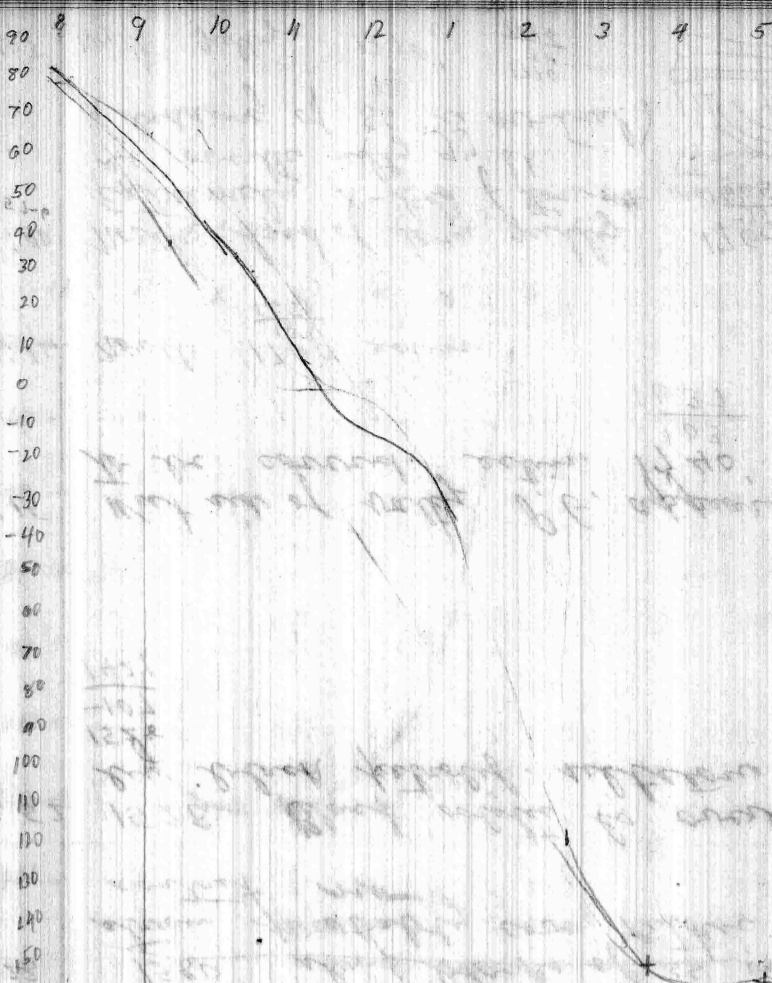
4:15 West side of valley P.C. appears to be covered. elevation 1740'  
 $\frac{103}{1637}$

4:22 North 1760 elevation  
 $\frac{101}{1659}$

H-57-6 4:40 North head of large gully extremely X-bedded ss overlies silty gy sh. (bedding of ss is vertical) 1760'  
 $\frac{95}{1665}$

4:53 top of gully 1770'  $\frac{1770}{90}$   
 1680





3-130-51M

Parker Ridge

Nov 7

8:08 at elev on rd.  $\begin{matrix} 2178 \\ 2092 \\ +87 \end{matrix}$

8:25 +78

8:33  $\begin{matrix} 2237 \\ +78 \\ \hline 2315 \end{matrix}$  at farm

9:23 1647' at head of Steele Creek  
 $\begin{matrix} 1647' \\ +32 \\ \hline 1684 \end{matrix}$   
 fine to med grn. ss overlies black fissile sh. with some nodules. ss containing pebbles of ~~meta~~ black shale & qtz; pebbles abundant near base  
 11655 at 937

11:45 1700' In gully on Parker Ridge due NE from spur on S. C. Mt.

H-57-7  
 H-58-7  
 CE-N No line  
 10-13W-21  
 can No line  
 see 10

see photo DBI-2N-106  
 in Prairie Grove or Bloyd  
 $\left. \begin{matrix} 10\frac{1}{2}' \text{ r-bedded f ss} \\ \text{contains pebbles of sh \& li. \& qtz} \\ 0 \quad 0 \quad 0 \\ 2\frac{1}{2}' \text{ blk sh.} \end{matrix} \right\}$   
 $\left. \begin{matrix} 10' \pm \\ \text{dk gy dense ls} \\ \text{v. fossilif - brachs, et} \end{matrix} \right\}$

now 7

3:28 at elev on road  $\begin{array}{r} 2320' \\ 2178 \\ \hline -142 \end{array}$

4:04 2310

4:30  $\begin{array}{r} 1760' \\ -145 \\ \hline 1635 \end{array}$  approx Base of P.O. covered in gully

5:00  $\begin{array}{r} 2187 \\ 2042 \\ \hline -145 \end{array}$  at the Y

Nov. 9, 1958

7:55 On Parker ridge road at Y  
2042  
1910  
+132

8:37 West from Y down gully (on north side)  
1575'  
135  
1710  
x-bed f-m ss, full of sh, + ls pebbles over med gy, silty, sh.

9:30 1260'  
140  
1400  
top of pitkin outcrop by thin bed. siltstn.

10:20 2032  
1885  
+147  
at Y

1030 1760  
+112  
~~1648~~  
1902

10:55 Top of C.H.  
1480'  
+137  
1617

11:03 1770 or +132

12:28 1730 or +102

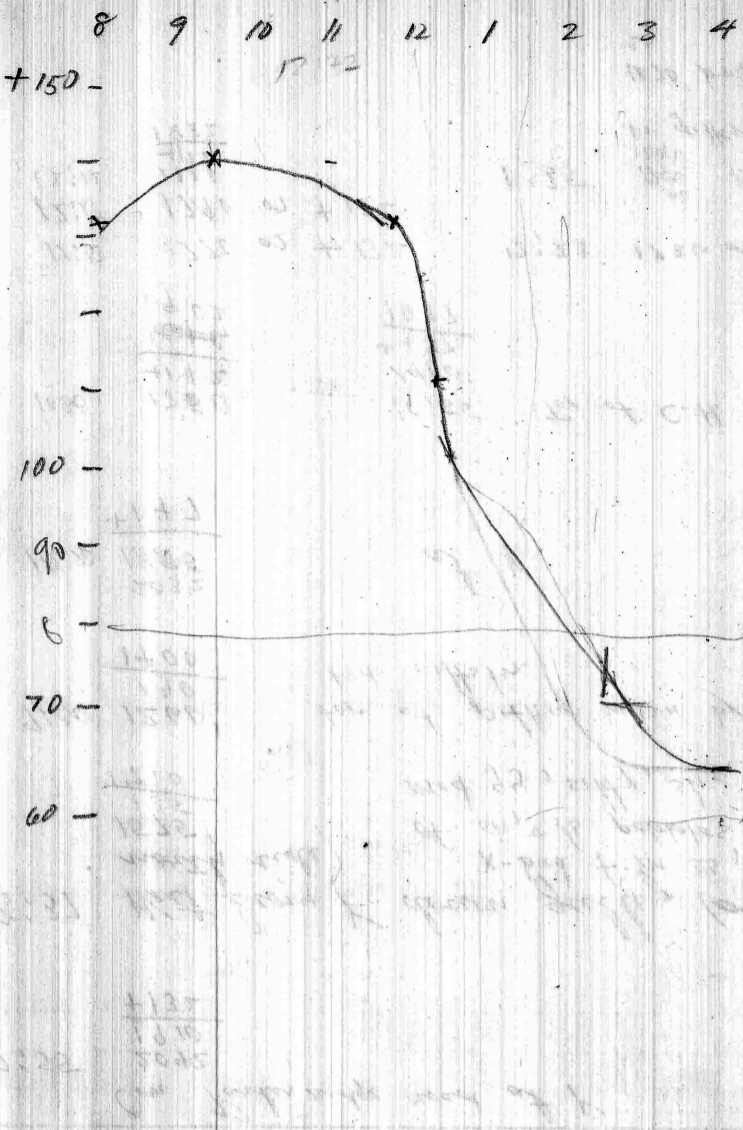
12:15 1790 or +112

12:22 1720  
+112  
1832

1:35 <sup>90'</sup>  
1750' top of pit  
1240  
in gully

1270' base of ss





West side of Steel Ch Mtn


Nov 9, 1958

H-58-8  
SW of NE  
NE, NE  
8-13N-21W

- 1:55      1210'  
          + 90  
          -----  
          1300

Channel ss, x-bed, med + coarse many qtz pebbles. Channel cuts down to 25' above pithing in gully where it overlies lamellar siltstone (laminar 1/2" and less) spring here (out of ss)
- 2:35      1365'  
          + 75  
          -----  
          1440  
          - 20  
          -----  
          1400

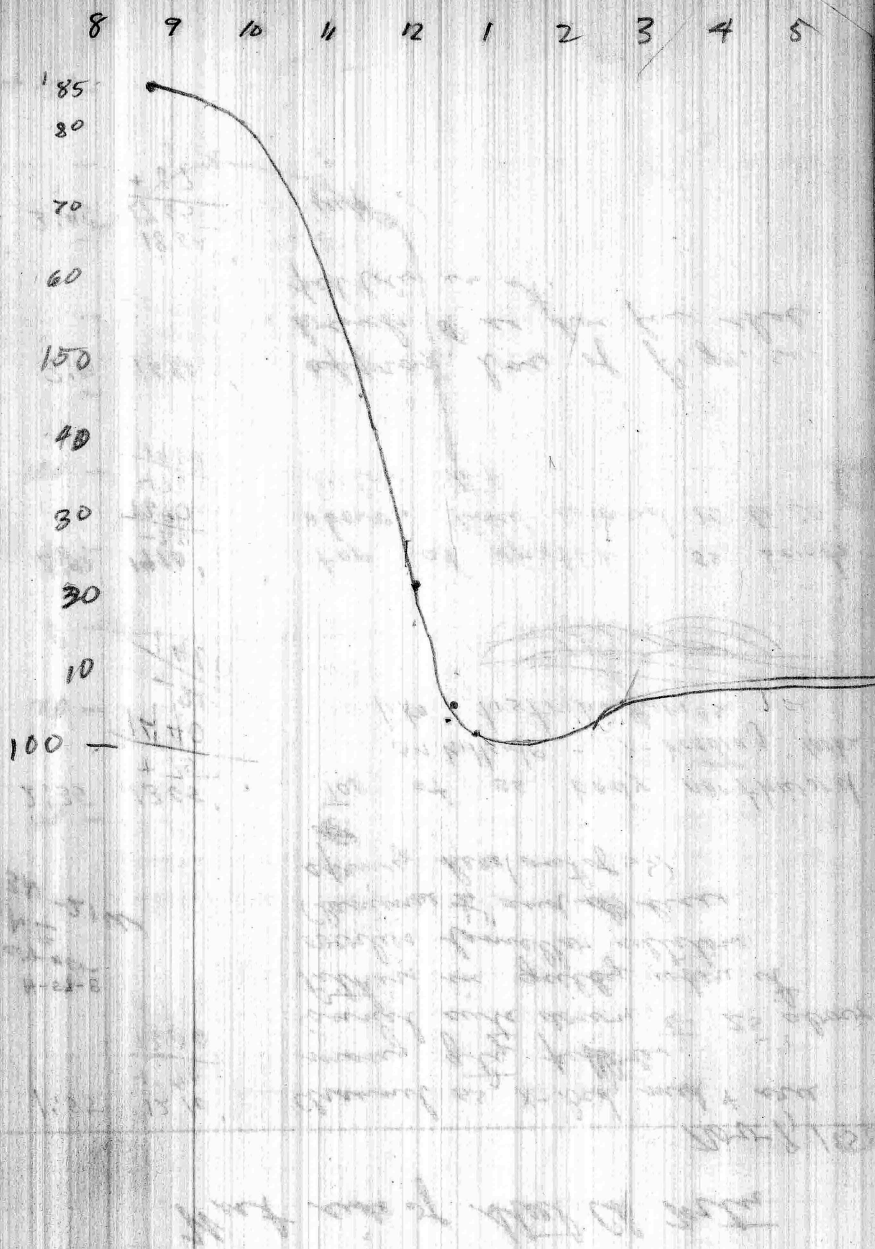
Top of ss body northward on hillside - x-bedding looks like distributaries


- 2:42      1410'  
          - 20  
          -----  
          1390  
          + 70  
          -----  
          1460

top of another ss beds above. Base covered 15 to 20' below top.
- 3:30      1680'

approx. base of f. gr. ss bench @ ss has few shale pebbles in it.
- 3:45      1832  
          1765  
          + 67

gap



Time	Elevation	Notes	Time	Elevation	Notes	Time	Elevation	Notes
8:45	$\begin{matrix} 2042 \\ 1857 \\ +185 \\ \hline 1850 \end{matrix}$			1665 at top				
				$\begin{matrix} +185 \\ \hline 1850 \end{matrix}$				
9:34	$\begin{matrix} 1425' \\ +18 \\ \hline 1410' \end{matrix}$	base of P.G. in gully here or below						
9:50	$\begin{matrix} 1325' \\ 180 \\ \hline 1505 \end{matrix}$	base? of congl. ss, qtz pebbles						
11:28	$\begin{matrix} 1330' \\ +145 \\ \hline 1475 \end{matrix}$	approx base of congl. ss south around hill from above loc.						
11:55	$\begin{matrix} 1850 \\ 1730 \\ \hline +120 \end{matrix}$	at deep						
12:15	1730 +120		12:28	$\begin{matrix} 1865 \\ 1762 \\ \hline +103 \end{matrix}$		1232	$\begin{matrix} 1738 \\ +105 \\ \hline 1843 \end{matrix}$	feet
02:00	$\begin{matrix} 1190 \\ 100 \\ \hline 1290 \end{matrix}$	cht fine sand + silt with pebbles of qtz + sh over med gy sh. in gully				1245	$\begin{matrix} 1843 \\ 1742 \\ \hline +101 \end{matrix}$	
2:30	$\begin{matrix} 1140 \\ 105 \\ \hline 1245 \end{matrix}$	look at previous Pitkin Top. 2' dk gy fossilif. ls overlain by brn v. f. ss and 15' below black sh is exposed. ls is colitic + sandy 10' below maybe ss						

0300

$$\begin{array}{r} 1175 \\ 105 \\ \hline 1280 \end{array}$$

med gy ss with qtz pebbles, irreg  
X-bedding, overlies thin, reg-bedded  
v.f. ss, irreg. contact.

0318

$$\begin{array}{r} 1111 \\ 105 \\ \hline 1,216 \end{array}$$

m-crse grn, congl ss (qtz peb)  
over shale and med gy siltstone  
contact (C.H. - Pitkin) or C.H.  
Fayetteville) is not well exposed  
here

3:30

$$\begin{array}{r} 1170 \\ 105 \\ \hline 1275 \end{array}$$

SW side of gulley congl ~~CH~~ ss  
on 4. ft reg thin reg bed ss

~~4:00~~

3:55

$$\begin{array}{r} 1180 \\ 106 \\ \hline 1286 \end{array}$$

~~CH~~ P.E. cross road (approx)

4:10

$$\begin{array}{r} 1240 \\ 106 \\ \hline 1346 \end{array}$$

base of P.E. (covered) in first  
gap SW of road.

4:40

$$\begin{array}{r} 1843 \\ 1734 \\ \hline 106 \end{array}$$

8:17

$$\begin{array}{r} 1865 \\ 1657 \\ +208 \end{array}$$

8:30 +207

8:35

$$\begin{array}{r} 1635 \\ 207 \\ \hline 1842 \end{array}$$

Jepk

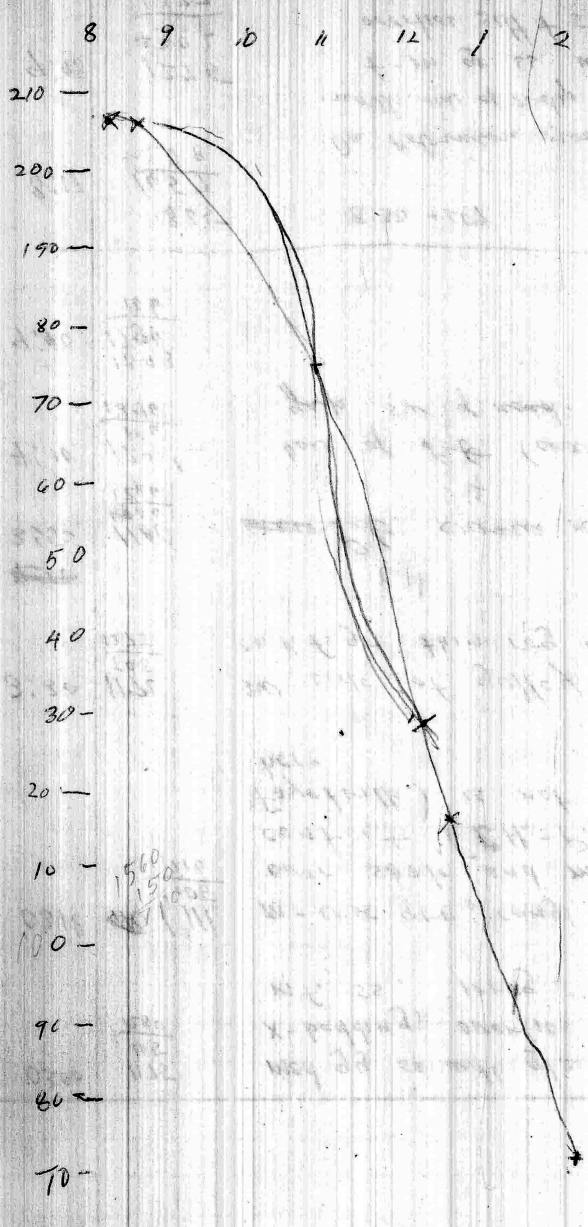
On Robinson road off Parkers Ridge  
north side of ridge

9:48

$$\begin{array}{r} 1275 \\ +202 \\ +113 \\ \hline 1477 \\ 106 \end{array}$$

f-m gr ss w qtz granules,  
overlies silt + sh (base of C.H.?)  
intbed blk sh + siltstn 25'± below  
base exp

Nov 11



11-11-56

- |                  |  |  |
|------------------|--|--|
| 10:20            | $\begin{array}{r} 1393 \\ +185 \\ \hline 1578 \end{array}$   | up gully toward jeep - fine gr ss with sh. pebbles - base covered overlies silt + shale (base of P.G.?)                                    |
| 10:35            | $\begin{array}{r} 1533 \\ +190 \\ \hline 1723 \end{array} \quad \begin{array}{r} 1750 \\ 1713 \end{array}$ | further up. f. grn ss w. sh. pebbles over block sh. (base of P.G.)   |
| <del>10:50</del> | $\begin{array}{r} 1865 \\ +140 \\ \hline 1725 \end{array}$   | base of Atoha.   |
| 10:55            | $\begin{array}{r} 1690 \\ +175 \\ \hline \end{array}$  | 1107 1047 or +168   at jeep. 1705 = +168   |
| 11:53            | $\begin{array}{r} 1575 \\ +140 \\ \hline 1715 \end{array}$   | east of large gully in small gully fine gr. ss with shale pebbles  |
| 12:13            | $\begin{array}{r} 1745 \\ +128 \\ \hline \end{array}$  |  |
| 12:48            | $\begin{array}{r} 1832 \\ +112 \\ \hline \end{array}$  | $\begin{array}{r} 1865 \\ 1749 \\ \hline +116 \end{array}$<br>Jeep 1253; 1720 = +112<br>0205; @1760 = +72<br>2'                            |
| 1:23             | $\begin{array}{r} 1560 \\ +93 \\ \hline 1653 \end{array}$  | <del>Above</del> In gully above last place is found below C.H. unconf. F grn ss with sh. pebbles, over thin bed silt-ty Unconf not obvious |

110

100

90

80

70

60

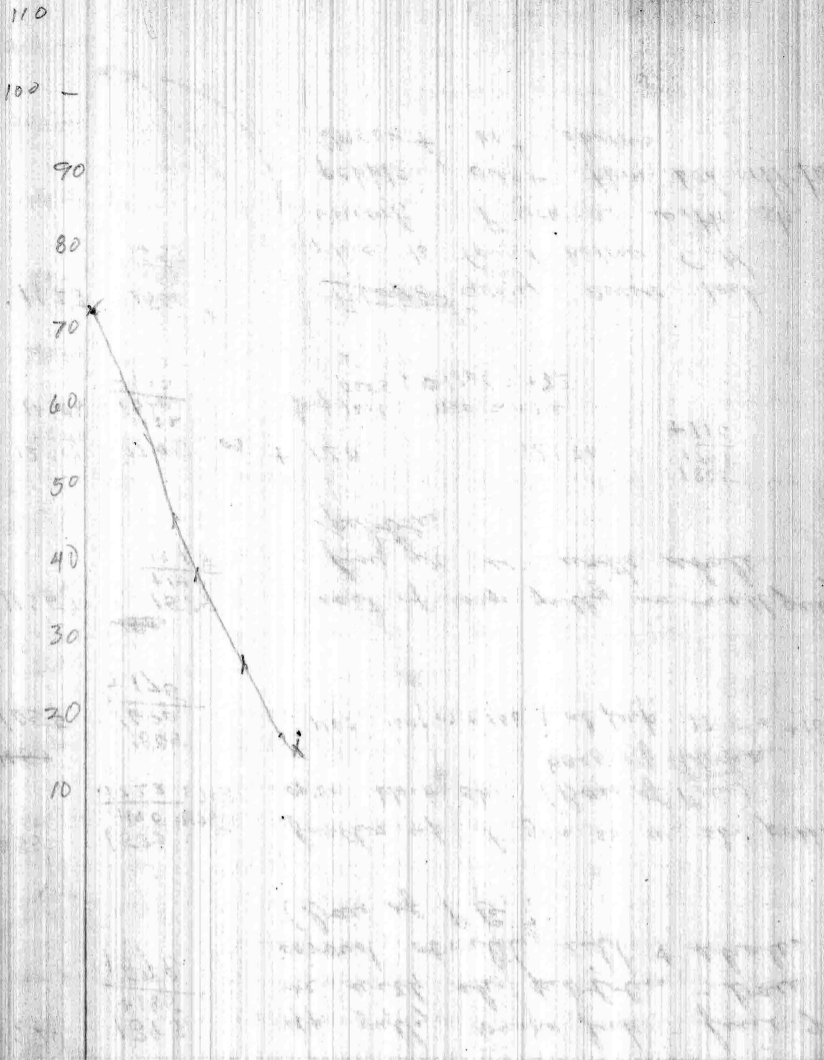
50

40

30

20

10



11-11-58

1:45 1582'  
+80  
1662

head of gully above C.H. - lost  
ls. outcrop

H-58-7

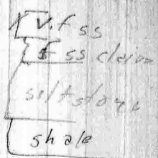


2:35 1865  
1805  
+60

2:47 1785 = 460 at dup  
2:58 1780 + 55  
4:43 1765 + 15

3:10 1645  
45  
1690'

Base of P.G. or 20' below it  
(covered above)



3:30 1370

f grn ss over siltstone

3:40 1350  
38  
1388

med grn congl ss (sh + 1/2 pebbles) over v.f. silty ss

4:05 1350  
27  
1377

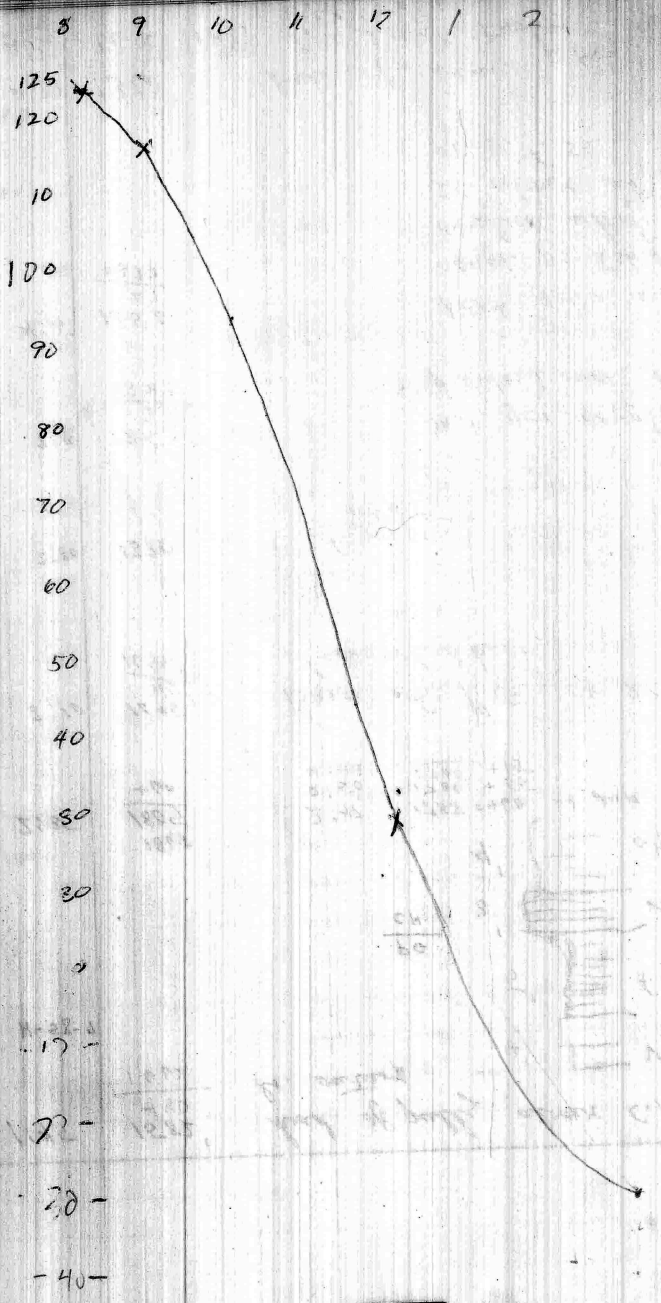
Next gully west, med grn congl. ss (sh + 1/2 pebbles) over silty ss. 20' above is 5' bed of v.f. ss.

4:27 1300'

base of bench p.s.

4:32 1290' (1708)

on point of low cor

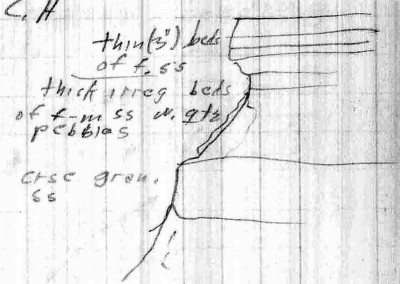


Nov 13

8:15  $\frac{1865}{1742} + 123$  11:42  $\frac{1865}{1815} - 60$  8:21  $1723 = +123$  at deep change level  $\frac{1865}{1915} - 50$   $1725 = +140$   $1730 = +126$  11:48  $\frac{1865}{1837} - 28$  11:5  $119$

9:35  $\frac{1605}{103} - 1708$  med grn ss w. qtz gran. + peb. base covered (P.G.)

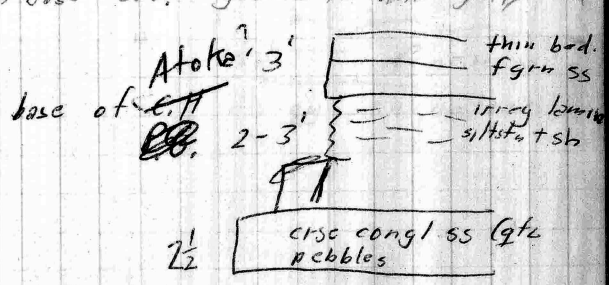
H-58-8 10:04  $\frac{1360}{92} - 1452$  base of C.H.



10:18  $\frac{1370}{85} - 1455$  CH ground point westward

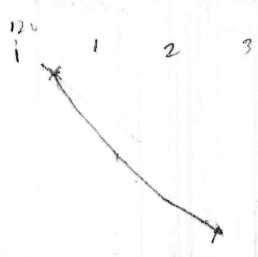
10:23 1420 CH base cov. guess in next gully west

H-58-9 10:53  $\frac{1363}{68} - 1431$



11:28  $\frac{1625}{43} - 1668$  base of P.G. approx. (cov) just below saddle on north side of Rob. Ridge

-10  
-20  
-30



1153  
1690  
28  
1718

12:30 1730 = -12

2:23 1750 = -32

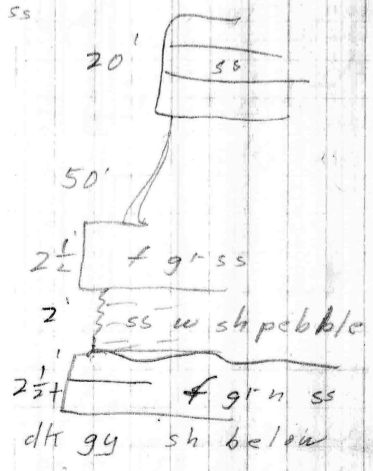
1235  
1710  
76  
1786

base of P.G. (ss w shale)  
below jeep (pebbles)

~~H-58~~  
H-58-10  
20-13N 01:15  
121  
~~H-58~~

1440  
-22  
1418

m-f grn ss abundant sh  
pebbles cruddy bedding  
over f. gr ss



11-18-58

8:18 1932  
1837  
+95

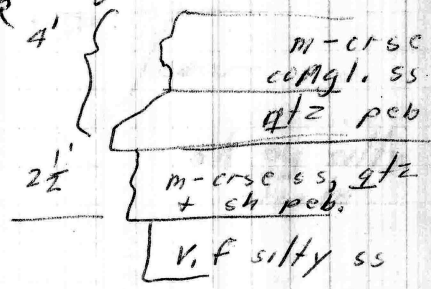
8:23 1800  
95  
1895

at deep  
saddle in P.A.  
road south of  
Rob. R. turn off

H-58-11

7:08 1410  
+95  
1505

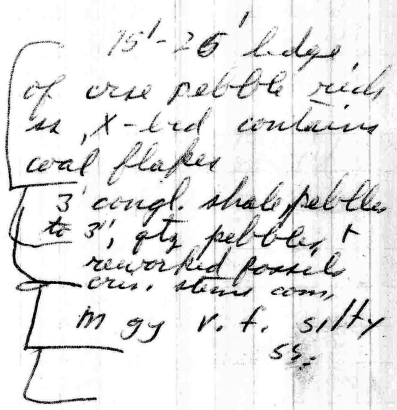
Downy main valley  
of Rock Creek  
Ledge 4'  
Atoka



H-58-12

9:48 1310'  
+90  
1400

Atoka



In first gully west on  
n. side of valley

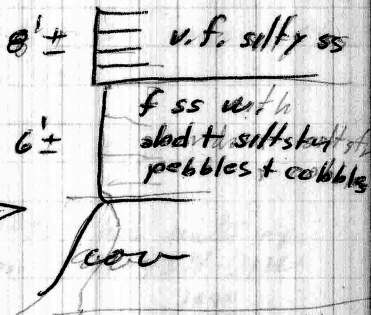


11-18-53

12:23

1070  
90  
-----  
1160

Base of Atoka  
in Rock Creek →



12:43

1200

same gully med. grn ss w.  
occas. gtz. peb.  
X-bed overlies  
v. f. grn silty  
thin bed. ss

1:42

1720

f. crse poorly std  
(gtz. peb) X-bed ss  
overlies v. f. ss

1:53

1630

ledge of f ss with  
somen. sh pebbles

3:30

1575  
1840  
-----  
285

3:50

1932  
1852  
-----  
+80

3:52

1790  
+80  
-----  
1870

at fork

4:58

1790 = 1870

9:24 1420  
 80  
 1500'

with 2" pebb of ls + sh  
 X-bed m-grn congl ss  
 overlies 20' mass wt.  
 grn ss

8:17 1932  
 1707  
 + 225

Nov 19

8:25 1690 Jap center of  
 8:42 1700 21-13N-21W  
 1690  
 220  
 1910

9:55 1270

atoka

In main gully, west  
 side of Parker Ridge ~~and~~  
 south end of map. Pebble  
 + cobble congl only  $\frac{1}{2}$ ' to 3"  
 thick overlain by fgr ss  
 and underlain by dk grey  
 siltstone. Can't get down  
 over 50' ss cliff to base  
 of C. H.

10:45 1710 = +205 at Jap

11:00 1720 = +205 Jap moved back to  
 to tri-ridge interval

11:17 1600 = +205 Jap at saddle on non-road  
 1805 ridge east off Parker Ridge

1:40 1605 = +200

11-19-58

12:30

1290'

same gully as above CA-16  
contact about 20' below  
20' ss over pebble congl base  
covered



1:45

1040

+200

1240

Just below stream joint 40-50' ss  
pebble congl w reworked fossils  
at base, black shale below  
base of C.H

3:00

1250

+165

1415

Base of a sandstone cliff  
about 30', x bedded with  
zones of qtz pebbles.

3:35

1805

1648

+157

4:07

1570

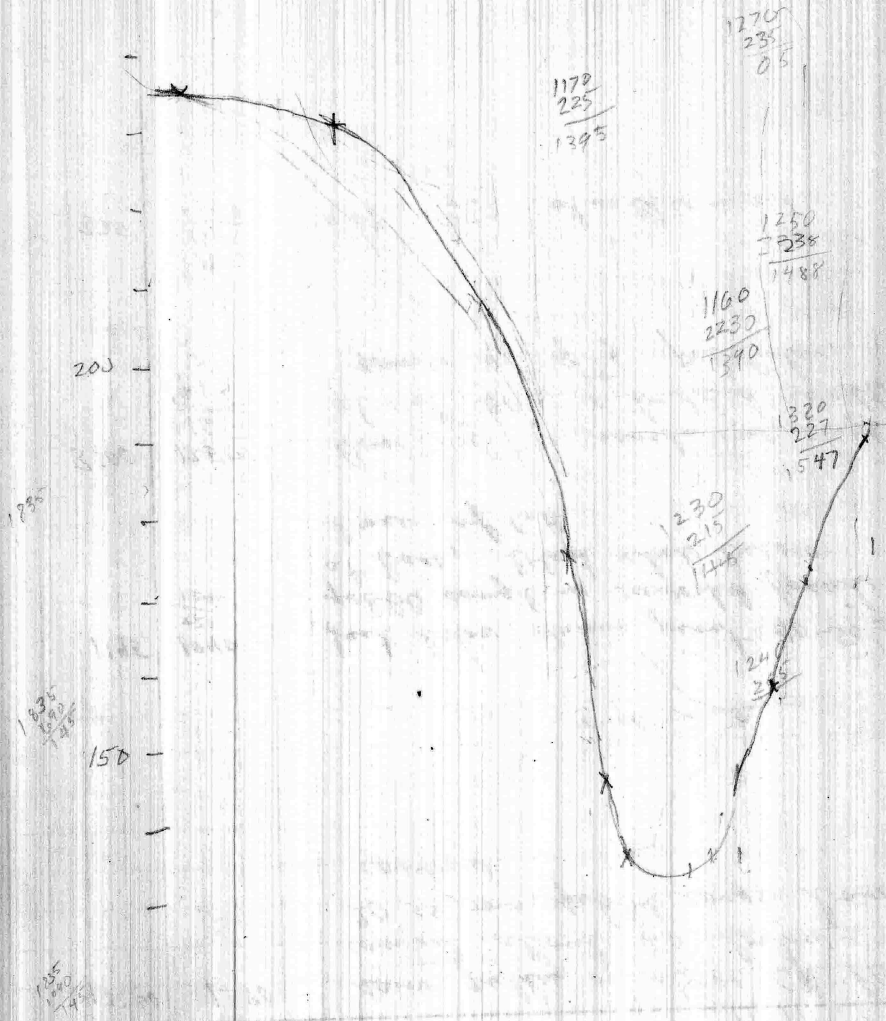
159

1727

at saddle on road

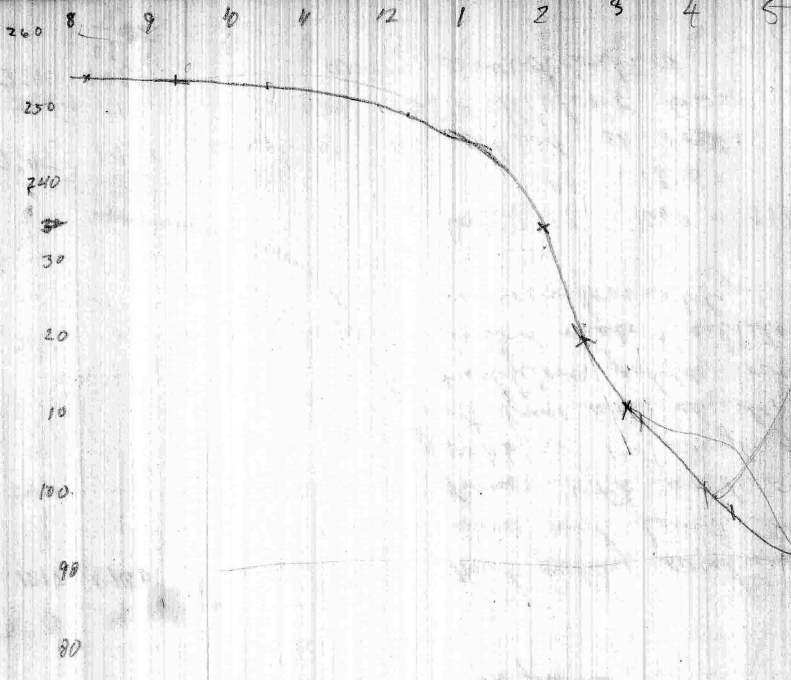
9 10 11 12 1 2 3 4 5

250 →



11-20-58

8:25	1865 1630 +235	at Bee corner
8:30	1600 +235 1835	
10:07	1150	about 30' of hard siltstone conc. ss. at base with sh + gtz pebbles, conglomerat at base
10:17	0150	next gully west canyon above and points toward house vts with sh pebbles 1-2" congl. zone at base with sh, loc gtz + siltstone pebbles overlies interbed shale + siltstone unconformably
		Jeep 1:18 1660 = +175 1:40 1890 =
2:45	1450	congl. ss w. int bed sh + gtz on sh + siltstone base above covered bottom
3:00	1480 0135 1615	



1160  
245  
05

1210  
245  
1305

1195  
108  
1303

1260  
108  
1368

1053  
1735  
114

1260  
108  
1368

1530  
188

11-20-58

3:52  $\begin{matrix} 2042 \\ 1895 \\ +157 \end{matrix}$  4:20  $\begin{matrix} 1360 \\ 0170 \\ 1530 \end{matrix}$  South down gully from saddle on millcreek rd. thin bed (1/2-3") of ss about 5' thick overlies 1' and less congl. pebbles of sh. + siltstone in ss. which in turn overlies gy. silty sh of P. 16.

NW, SW  
13-14N-20W

4:50  $\begin{matrix} 1190 \\ 188 \\ 1378 \end{matrix}$  base of 30' cliff of 1 bed ss

5:12  $\begin{matrix} 1728 \\ 1540 \\ 188 \end{matrix}$  at base

---

11-21-58

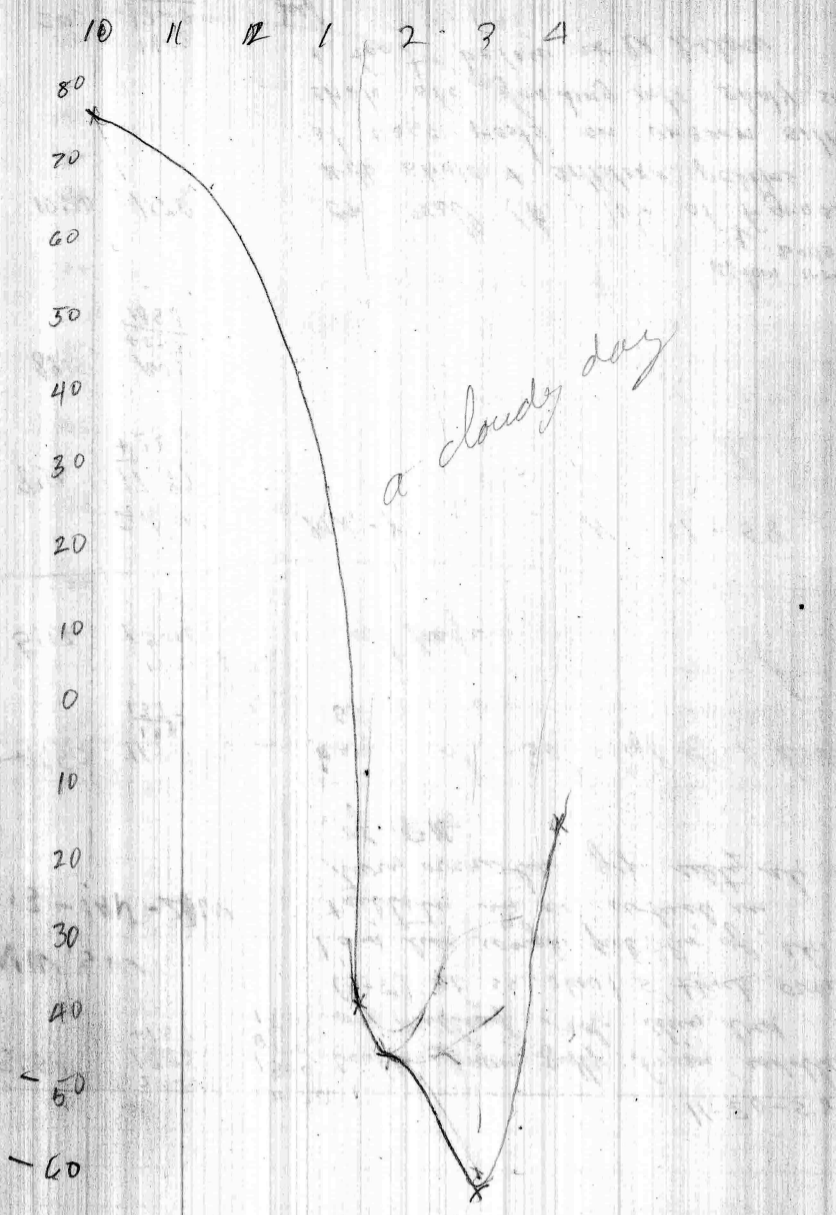
3:02  $\begin{matrix} 2042 \\ 1789 \\ +253 \end{matrix}$  M.D.-Y

8:15  $\begin{matrix} 1600 \\ +253 \\ 1853 \end{matrix}$

10:30 1170 on mill Cr. 10' of fgnss with shale + siltstone pebbles at base rests on uneven silty shale sfc grading into shaly silt a foot below + 1' below

200  $\begin{matrix} 1853 \\ 1700 \\ +133 \end{matrix}$  Jeep 2:45 1745

thin irreg beds



2:53 ~~100~~ 1070  
 $\frac{110}{1180}$  On road going down to mill creek

3:05 1310 = +110  
 $\frac{110}{1420}$  at gap on end of hill above CH

5:15 ~~1420~~ 1330 = +90  
 $\frac{90$

11-22-58

10:17  $\frac{2042}{1966} +76$

10:18  $\frac{1658}{76} 1726$  Jeep on ridge road under Alcho ledge  
 10:36 1660 + 66

1:40 -44

1:53  $\frac{1600}{45} 1555$  Jeep on road at or below base of CH

2:43  $\frac{1380}{-15} 1365$  Jeep on hairpin curve at CH-PC contact

2:53  $\frac{1400}{1325} -75$

3:05  $\frac{1765}{1726} -39$

3:06 on saddle  $\frac{1760}{-39} 1721$

11-22-58

3:22 1580'  
-45'  
1535'

Prime  
horst

North side of ridge below saddle  
fg ss with sh pebbles to  
1" thin irreg beds lie  
discont. on 3' fm gr ss full  
of brachs & crinoid stems

3:48 1420'  
-20'  
1400'

ss with gr pebbles,  
base cov. poor. exposure

4:07 1760'  
1745'  
-15'

8:53 2042  
1862  
480

11-24-53

Mills pass

9:03 1638  
+175  
1813

Jeep

9:35 1420'  
175'  
1595'

In P.G.

① West side of Hurricane Creek  
NE, NE ~~11-13 N-20 W~~  
fg ss w. thin irreg beds  
contain rounded fossil shells & striae  
pebbles in part truncates bedding  
of underlying fg. fossilif ss

10:05 1230  
175  
1405

② ss ledge base cov

12-13N-21  
1170  
1170  
1350

5' ss, fm gr with sh pbb.  
& pelyc & brach shells at base  
overlies gy slt sh + siltstone  
slightly undul. contact.

12:23 1640 or 1715 jeep

2020

12:56  
2042  
1877  
165

1:00  
1855  
165  
2020

jeep on saddle north  
of Von Muller's Knob

3:05

1465  
1163  
1330

Close out of base of PG up  
Hurricane Creek - 3' of pebbles  
congl. exposed. pebbles are  
sh siltstone + ls. also, large  
crinoid columns, Archimedes  
pebbles to 2"

NW cor.  
SW, NE  
11-13N-21W  
slusher Hollow

5:20

1900 at jeep

Nov 25

8:40

2121  
2210  
- 29

9:25

1510

at jeep at base of trail down  
to Hurricane Cr.

9:40

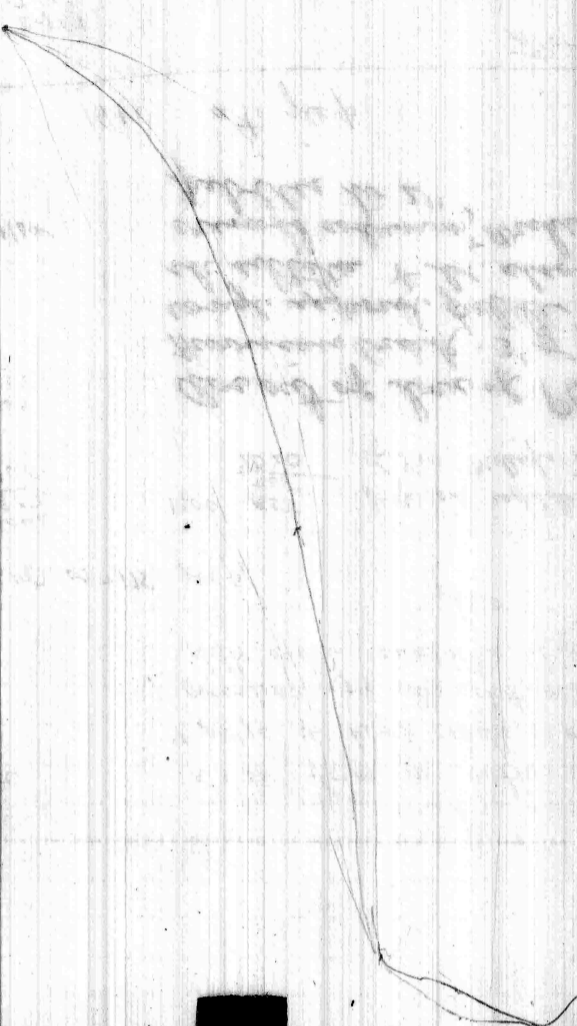
1490  
- 30  
1460

at Crab



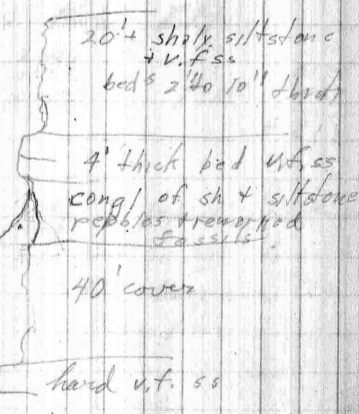
9 10 11 12 1 2 3 4 5

0 -  
10 -  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150



Nov 25

1205 1435'



1253 1560'

Base of P.G.

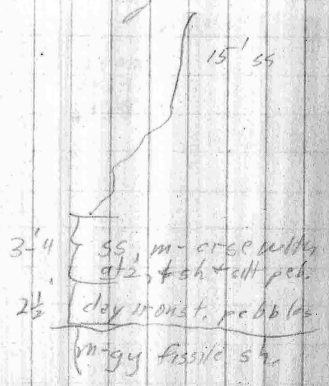
2:30 1610  
1460  
-150

at top 3:07 1605 at 1415

3:30 1690  
1460  
-1550

PG-CH boundary on east side of Hurr. valley

3:40 1620 at top  
1460  
-1160



11-26-58

8:30 2038  
1830  
+208

SAS Rnb BM

9:20 2042  
1822  
+220

9:25 2178  
1967  
+211

9:00 815  
208  
1023

9:50 1340  
220  
1560  
gap at last  
above in red downy  
to Mexican Cr  
Gran Dur

12:15 2178  
1988  
+190

12:25 2760  
190  
1950

North rim of Slesher Hollow

12:45 = + 1770  
180  
1950

1:25 1335  
160  
1495

Congl s in sh pebbles at  
head of Slesher valley  
above fork in stream

1:53 1795 m +153

2:15 ~~2038~~  
40  
2178  
2018  
+160

2:18 2042  
1885  
+157

2:35 1125  
905  
+220

2:50 930  
220  
1150

Rain

Dec 1

8:23

12150 -  
465  
750

1215  
465  
750

8:33

2433  
1725  
708

Rained all night  
Rain morning

Dec 2

12:00 at cabin

W.T. 1460  
S M 717  
743

12:32

Deer Fire Tower

WT 2818  
2191  
+ 627

SM 2191  
2150  
+ 41

1:55

at 2110

WT 2710  
2110  
- 600  
1083

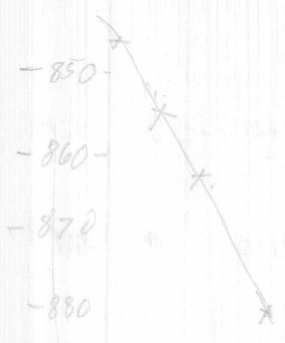
SM 2015  
2110  
+ 91  
2056

1:10

DFT. WT - 2832  
2191  
- 641

SM 2150  
2110  
+ 40

9 10 11 12



Dec 3

8:30 SM 2320  
 $\frac{2191}{+129}$  WT 3010  
 $\frac{2191}{-819}$

8:45 SM 2187  
 $\frac{2042}{-145}$  WT 2887  
 $\frac{2042}{-845}$  2042  
 1962  
 $\frac{1190}{772}$   
 179  
 39

9:05 SM 1320  
 $\frac{-145}{1175}$  WT 2035  
 $\frac{-845}{1190}$

11:05 2070 =  $\frac{-845}{-35}$  2170  
 $\frac{-880}{1320}$  1962  
 850

11:25 1385 = -200 1112

11:35 Cub creek SM 1260  
 $\frac{-200}{1060}$  WT 790  
 $\frac{-890}{1070}$

12:10 " " 1980  
 $\frac{710}{1070}$  1990  
 $\frac{-720}{1070}$

2015  
 $\frac{900}{1115}$   
 East side of cong of Cub Cr. in American  
 m-grn ss w/ congl ss at base  
 mont. pebbles to 2" of sh + siltstn  
 overlies siltstone + fss (20')  
 the siltstone weathers back  
 but the contact is not sharp

1246

WT 2000  
- 827  
1100

SM 1305

Jeep

3:35

WT 2020 = -940

SM = 1315

5:10

WT 2972  
2098  
- 874

2386  
- 874  
1512

270  
925  
1345

Dec 5,

7:20

WT 1540

at home

SM 1000

2370

7:35

WT 2842

SM

40°F

Gun

2097

+ 795

8:00

WT 2882

1790

2882

2106

1038

2855

+ 776

+ 752

27

8:25

2795

2042

753

Doc 9-59  
Northwest tip of George mtn  
Prairie Grove forms 40-50' bluff  
58-12-1 composed of fine to med. sd,  
occasional zones of gty + sh  
pebbles.  
NE  $\frac{1}{4}$  19  
15N-20W

Cane Hill almost all  
shale at north end of mtn  
at 20'± zone of siltstone  
58-12-2 ledge under PG contact to  
south.

NW  $\frac{1}{4}$   
20-15N-20W

Pitkin is poorly exposed along  
NW side of George mtn; mostly  
in float

58-12-4 Conglomerate in fine grain. ss matrix  
at base of CH, sh, ls, ironstone +  
reworked crin. columnals.

58-12-3 Very fossiliferous ss including  
cephalopods in lower Prairie  
Grove

Dec 10, 1958

northwest side of George  
Mountain. Prairie Ghost forms  
20' bluff but base is covered.

58-14-5 Basal ss of C.H. exposed at 10' <sup>to</sup>  
ledge. Finny, fairly zone weathered  
out. DK grey sh. below, Good  
Pitkin ls. in place 100' below

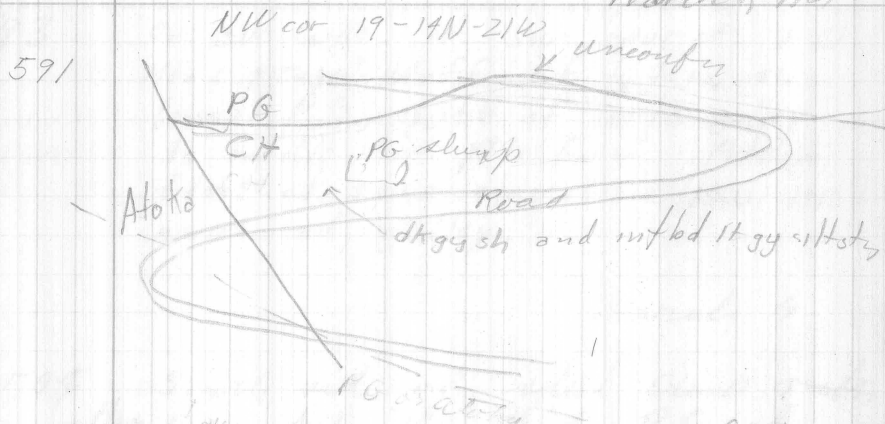
58-12-6 15' ledge of C.H. ss. 1

Dec 11, 1958

58-12-7 30'± Basal P.G. - Shaly with  
conglomerate of sh. + siltstone pebbles  
in basal part.

58-12-8 cephalopod collection

March 1, 1957



Fault separating CH and younger rocks must nip hairpin curve, as good cone Hill fines shown in road, and coarser ss are below road and on side of Hill up (NW) Mill creek.

March 2, 1959

592

Mapping Atoka beds. Basal Atoka? m. grn. ss with abdt gtz pebbles to  $\frac{1}{4}$  some to  $\frac{3}{4}$ " some shaly pebbles irregular x bedding, bed. appear massive overlie fine grn ss + siltstn - thin regular beds. Northeast side of Millcreek valley.



March 3

593 On SW side of SW spur of Steel  
Mtn: 75-80' bluffs of f. to m. ss  
(basal P.G.) south of large gully  
to saddle or plot farm. Pitkin  
float at same elevation (1360-1410')  
north of gully.

March 4

594 South side of Steel Creek  
valley cans hill 100' thick P.G. channel  
cuts down 10' going eastward 40'  
17-13N-21W  
P.G. is f to m grn with sh peb. to  
 $\frac{1}{4}$ "

March 5

595  $\frac{1}{4}$ ' f ss CH  
undulating contact  
16-13N  
21W  
Pitkin cal. li.  
10' above contact is base of  
sometime 0-20' ledge of thin bedded  
siltstone with shale laminar and small  
( $\frac{1}{2}$  foot) lenses of f. ss.

March 9

596  
NE corner  
of ~~the~~ 13  
13N-21W

Up Hurricane creek on northeast  
bank of Jonesome hollow.  
20' above Pitkin is 15-25' ledge  
of siltstn. to v.f. ss. thin 2" beds  
also combined in 4-5" beds. Very hard  
silica cement. P.G. caps thin

597  
NW-SW-12  
NW, SW 12  
13N-21W

Trib. gully on west bank of Herr. Cr  
valley



598

20' cliff on north side only of trib  
hard arg. ss; overlies 40' of f+m ss  
ss, soft and clayey

March 16

17

March 17

March 18

On west side of George Mts north  
of Sams throne 20-30' <sup>bed of</sup> ss,  
~~ss~~ regular bedding  $\frac{1}{4}$ '-2' lies above  
Pitkin, basal C.H. ss,

March 24

SW corner

20-

NW, NW

20-14N

19W

West bank of Cave Creek  
15' of ss, reg bedding  $\frac{1}{4}$ -2' dips  $40^{\circ}$  W  
stripes N  $30^{\circ}$  E. 20' above 10-20'  
edge of w. f. ss is horizontal

To the south east across Cave  
Creek 15' of f-m ss, w. reg bedding  
appears to be horizontal.



595

April 7  
Down valley from Mineral Springs  
West side of valley  
NW cor of SE of 8-14N-2NW

Good exposure of CH-Pitkin contact  
2-4 bed, ~~thinly~~ laminated wavy  
laminar of siltstn overlies 3' bed  
of oolite ls. + mud ls below contact  
is parallel to bedding.

SB

April 26

59-6

1150'

at close-out of C.H. on Cave  
Creek 15-20' ledge of fss contains  
conglomerate zone of ls. pebbles +  
fossils 6-10' above base 2-3' zone  
appears to lens out to the south

April 7

at 1120 also on Cow Creek  
to black sh. beds 1' or less in  
roof ls. beds, 1-3' between shales.  
Apparent dip  $15^\circ$ ,  $S 15^\circ E$ .

on north side of Cow Creek 20-30'  
cliff of f-m ss + siltstone overlies  
dark gray sh of Putney ls. ls. outcrop  
15 feet below

middle  
of No. 10 band  
see 19

59-7

April 9  
Southside of Coog Branch  
Basal congl. of P.H. at base of  
30' cliff has qtz pebbles to  
 $\frac{1}{4}$ " shale + claystone pebbles  
and cobbles to 5" or max  
diam. 3' of congl exposed  
80' of c.H. below

April 10

On north side of Campbell  
Creek valley leading to Big Creek  
north half see 27 + 28 - 14N - 21W

Basal sandstone of cone hill farm  
ledge from a few feet to 20'±  
high mostly w. f. sd, but also  
fine & red. Bedding is regular  
& parallel ranging from  $\frac{1}{2}$ " to  
2' in thickness



April 11

North end of Hudson Mts

Cave Hill base  
at 11520'



Cliff of v. f. to f. ss at base  
of C. H. 0-25' around north end  
of Mtn. beds are from 1" to 3"  
and are parallel.

April 12

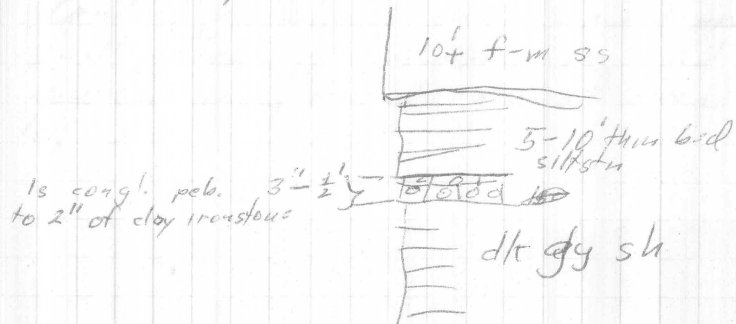
French Bay	1660	1705
	-502	1158
	<u>1158</u>	-547

April 14

SE, SW  
9-14N-20W

On ~~weather~~ <sup>southern</sup> saddle of Kickett's  
Mtn. - East side - Dry creek

Basal P. & ss is well exposed  
and 150' below basal ss of C.H.  
is well exposed



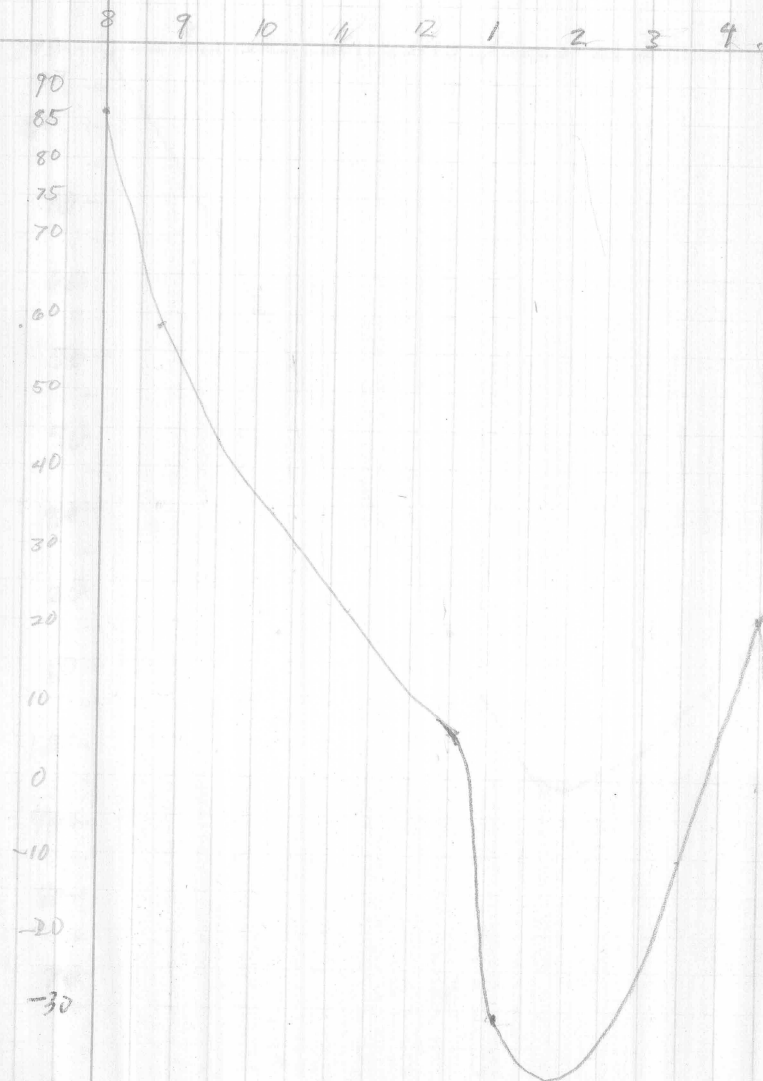
April 17  
Up Barbary creek in SW part  
of Quad.

Thick 50' or more of P.G. covers  
PG-CH contact with float

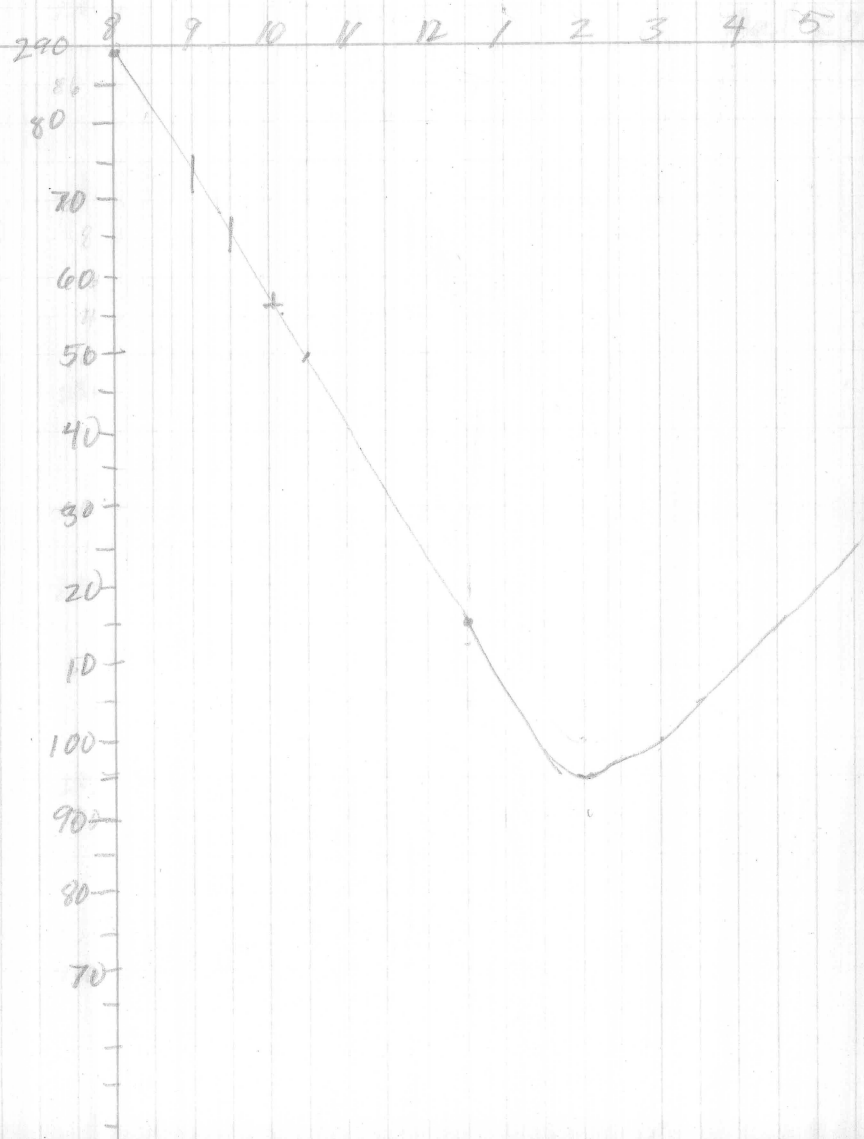
20' of very fossiliferous <sup>(see)</sup> sandy  
ls. and being fine in creek.  
unusually overlie dk gy ls.  
at 10' to 15' of ~~ls.~~ above  
~~the~~ ~~of~~ ~~20'~~ of 1-m  
with 4' zone of pebble congl.  
ls.

Contact is sharp and lenses of  
2'-4' thick of conglom. ls. and  
pebble conglomerate are at base  
of ls.

Nov 3



Oct 29



8  
10  
11  
12 1 2 3 4 5

270

Dist. 29

260

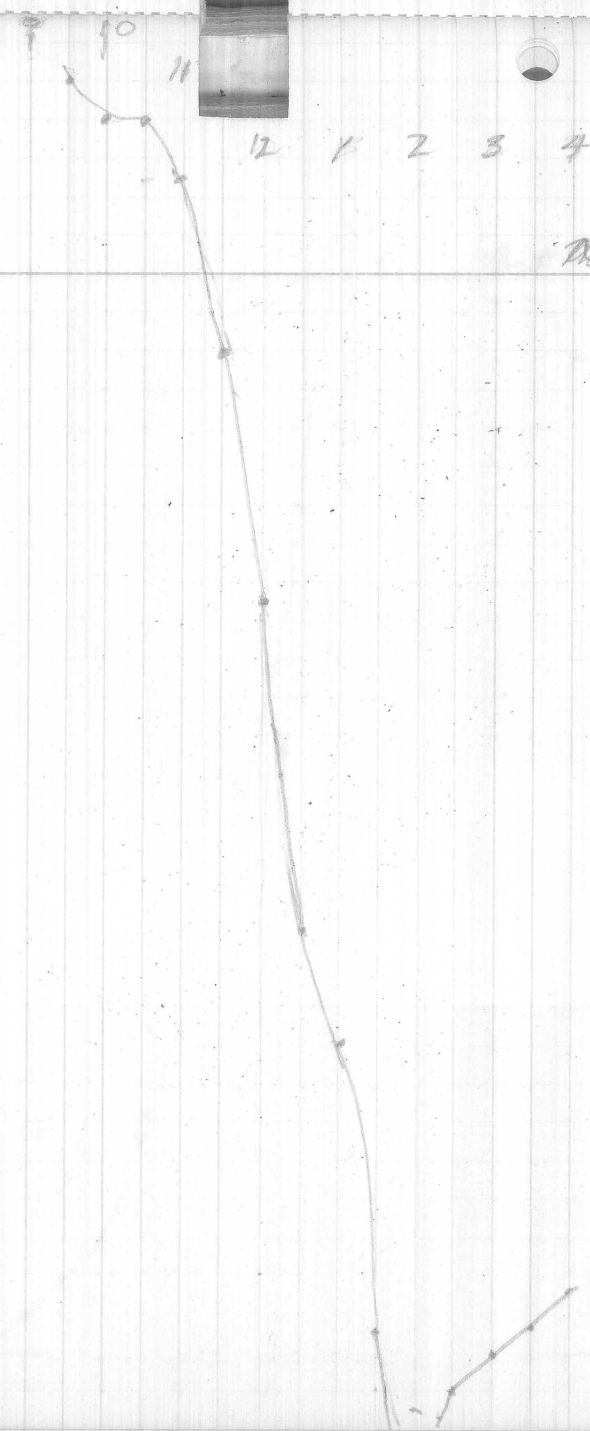
250

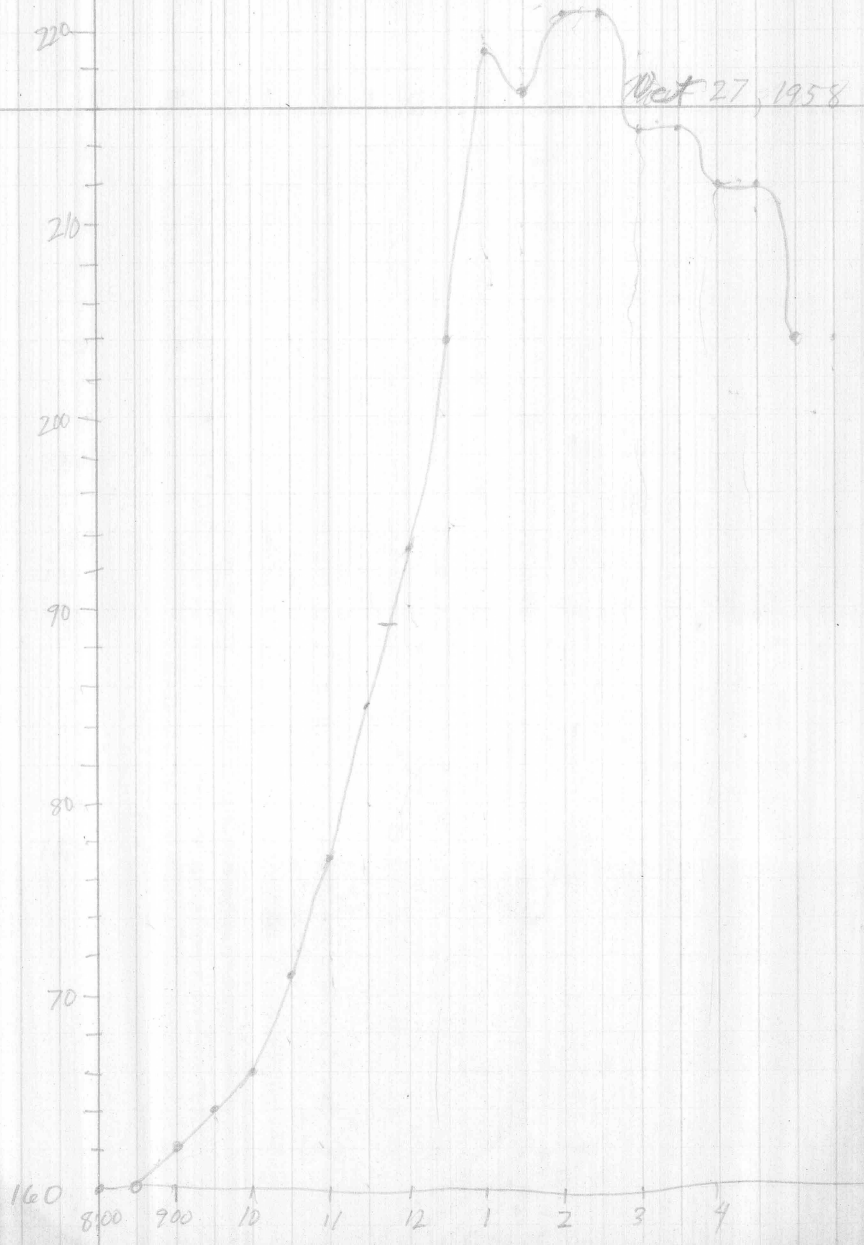
240

230

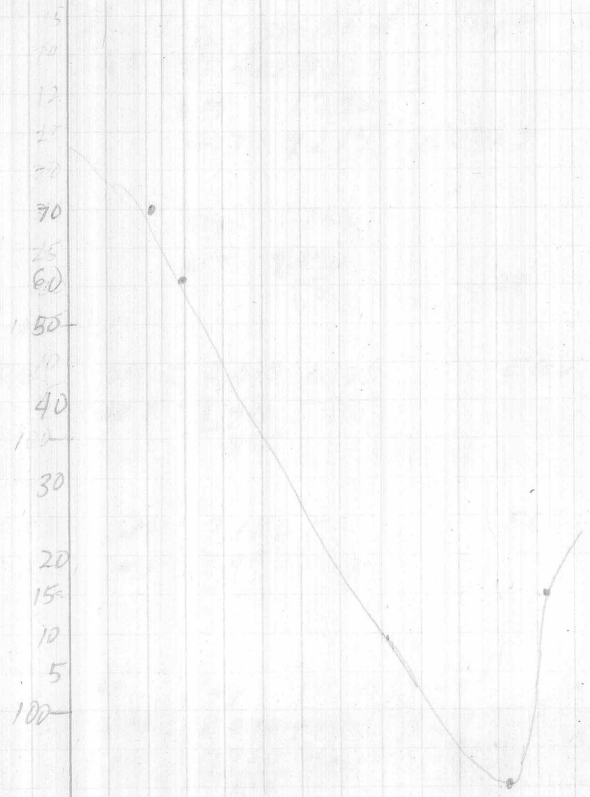
220

210





8 10 9 12 10 11 4 12 1 2 3 4





Oct 22, 1958

2 miles south of Jasper on Hwy 7  
at  $\frac{N}{W}$  (4292): 8:10 AM

SM: 1292

WT: 2215  $\sim 1023$

8:40

SM: 1,712

WT  $\frac{2,890}{7}$  1,128

9:06

SM: 2,015 +170

Elev 2191 - 5 =  $\frac{2905}{2185}$

WT:  $\frac{2,900}{885}$  -715

9:28

SM: 2,180 +161

Elev  $\frac{3067}{2351}$

9:4

WT:  $\frac{3,052}{1,872}$  -701

$\frac{2351}{2180}$   
161

At Hwy 16-7 junct 2:05

SM: 2070 +115 E1 2191-5 2185

WT  $\frac{2950}{880}$  -715  $\frac{2185}{2070}$  115