

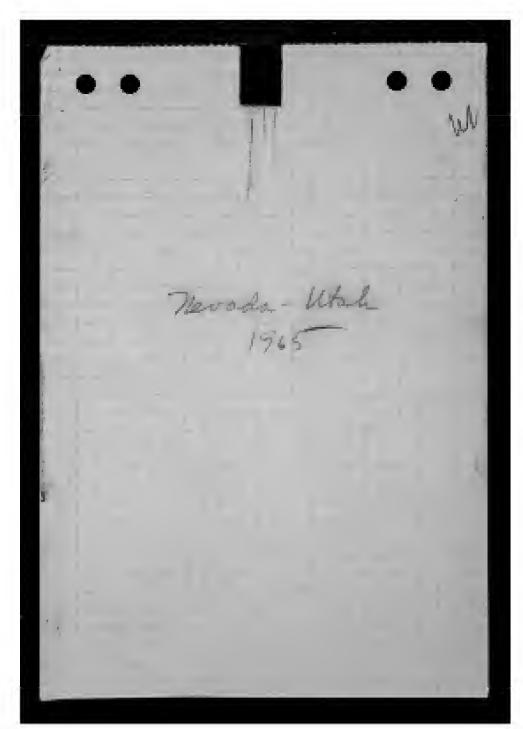
G. Arthur Cooper - Field notes, 1964

Extracted on Oct-12-2015 09:35:02

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August 27

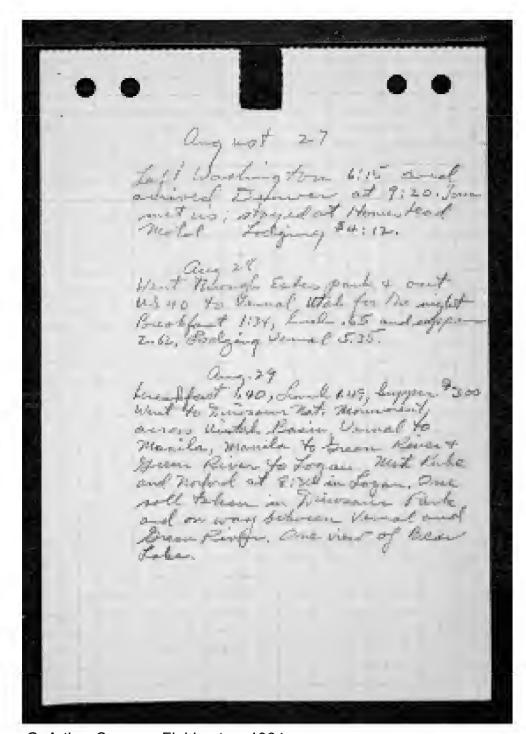
Left Washington 6:15 and arrived Denver at 9:20. Jove met us; stayed at Homestead Motel. Lodging \$4.12.

August 28

Went through Estes park & out US 40 to Vernal Utah for the night. Breakfast 1:34, lunch, .65 and supper 2.62. Lodging Vernal 5.35

August 29

Breakfast 1.40, Lunch 1.49, Supper 3.00. Went to Dinosaur Nat. Monument, across Uintah Basin, Vernal to Manila, Manila to Green River & Green River to Logan. Met Rube and Norford at 8:30 in Logan. One roll taken in Dinosaur Park and on way between Vernal and Green River. One view of Bear Lake.



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Aug 30,

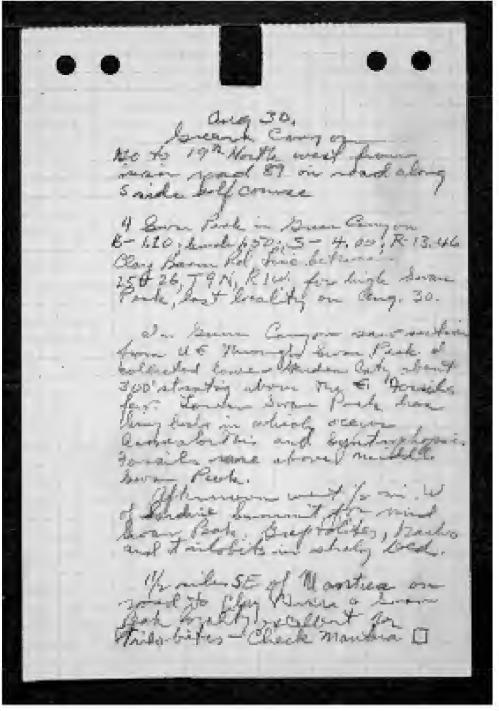
Green Canyon
Go to 19th North west from main road 89 on road along S side golf course.

4 Swan Peak in Green Canyon B- 1.20, Lunch 1.50, S-4.00. R -13.46. Clay Basin Rd, Line between 25-26, T9N, R1W, for high Swan Peak, last locality on Aug. 30.

In Green Canyon saw section from UE through Swan Peak. I collected home - Garden City about 300' strating. above The E. fossils few. Lower Swan Peak has [[limey?]] beds in which occur Anomalorthis and Syntrophopsis. Fossils rare above middle Swan Peak.

Afternoon went 1/2 mi W of Sardine Summit for mid Swan Peak. Graptolites, bracho and trilobits in shaly beds.

1 1/2 miles SE of Mantua on road to Clay Basin & Swan Peak locality excellent for Trilobites - Check Mantua [[drawing of open box]]



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August 31
B - 1.24, L = 1.25 S = 2.20 R = 4.14
\$2 for Williams
10 - Thrust Paleozoic (Nebo Thrust of [[Eerdley?] N side of Nephi.

Left Logan early in morning and went S to Provo. Here called on L. Hintze and saw collections from Confusion Range. After conference with H we came SW to Delta for the night. Met Rousseau Flower here.

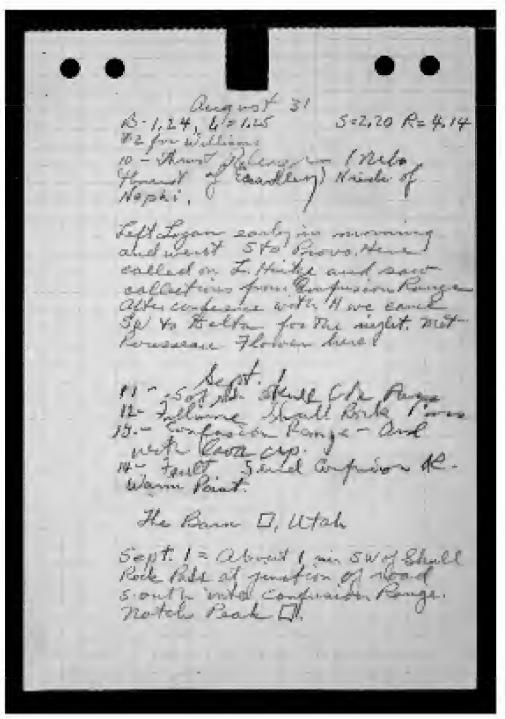
Sept. 1

11 - .5 of rd. Skull [[Rock?]] Pass 12 - Fillmore Skull Rock Pass

13 - Confusion Range - And with lava cap.14 - Fault S end Confusion R. Warm Point

The Barn [[image of square]], Utah

Sept. 1 = About 1 mi. SW of Skull Rock Pass at junction of road South into Confusion Range. Notch Peak [[image of square]].



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Sept 1[[superscript]] 2 [[/superscript]] - Long section 1/4 mile S of Fossil Mtn. NW 1/4 30-225-14W.,

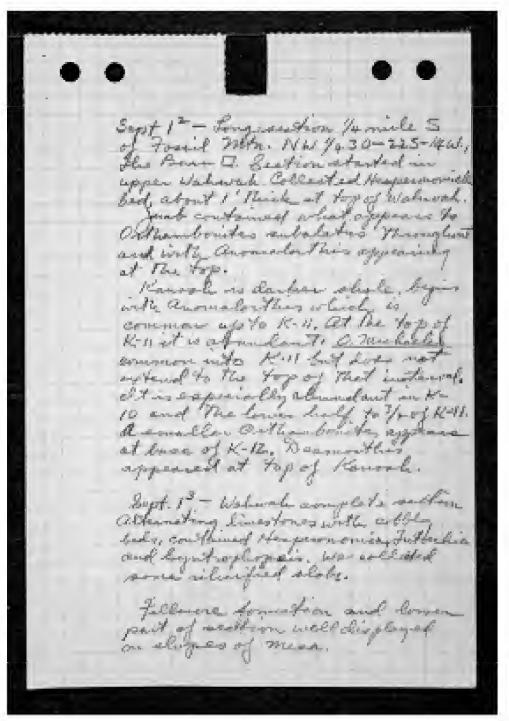
The Barn [[image of square]]. Section started in upper Wahwah. Collected [[Hesperonomicle?]] bed, about 1' thick at top of Wahwah.

[[?]] contained what appears to Orthambonites subalatus throughout and with Anomolorthis appearing at the top.

Kanoah is darker shale, begins with Anomalorthis, whish is common up to K-11. At the top of K-11 it is abundant. [[underlined]] O. Michaelis [[/underlined]] common into K-11 but does not extend to the top of that interval. It is especially abundant in K-10 and The lower half to 3/4 of K-11. A smaller Orthambonites appears at base of K-12. Desmorthis appeared at top of Kanosh.

Sept 1[[superscript]] 3 [[/superscript]] - Wahwah complete section Alternating limestones with cobbly beds, contained Hesperonomia, [[Tretbechia?]] and Syntrophopsis. We collected some silicified slabs.

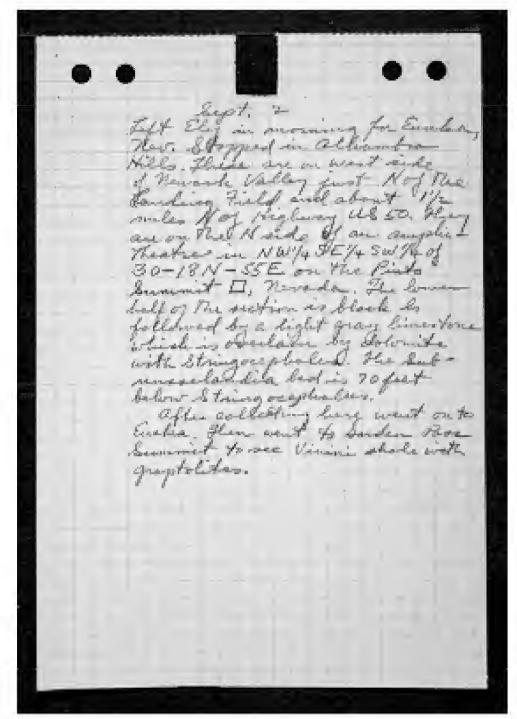
Fillmore formation and lower part of section well displayed on slopes of



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Sept. 2
Left Ely in the morning for Eureka, Nev. Stopped in Alhambra Hills.
These are on West side of Newark Valley just N of the Landing Field and about 1 1/2 miles N of Highway US 50. They are on the N side of amphi-Theatre in NW 1/4 SE 1/4 SW 1/4 of 30-18N-55E on the Pinto Summit [[box symbol]], Nevada. The lower half of the section is black Is. followed by a light gray limestone which is overlain by dolomite with Stringocephalous. The Subrensselandia bed is 70 feet below Stringocephalous.

After collecting here went on to Eureka. Then went to Garden Pass Summit to see Vinini shale with graptolites.



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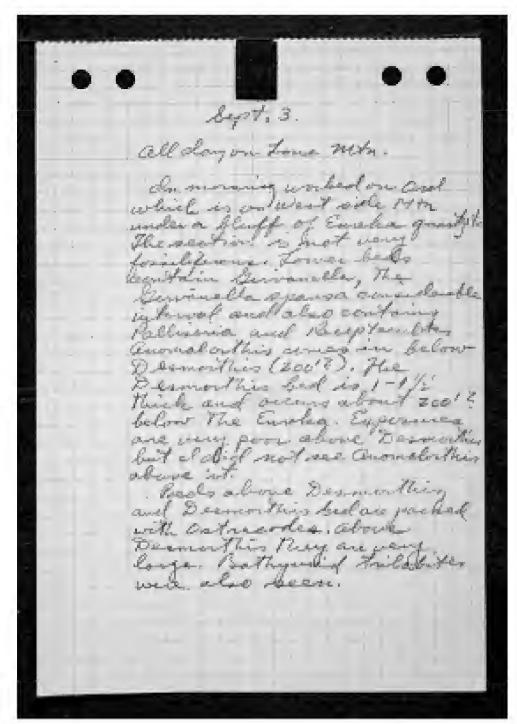
Sept. 3.

All day on Lone Mtn.

In morning worked on Oral which is on West side Mtn under a bluff of Eureka quartzite. The section is not very fossilferous. Lower beds contain Girvanella, The Girvanella spans a considerable interval and also contains Pallisana and Receptaculites

Anomalorthis comes in below Desmorthis (200'?). The Desmorthis bad is 1-1 1/2' thick and occurs about 200'? below the Eureka. Exposures are very poor above Desmorthis but I did not see Anomalorthis above it.

Beds above Desmorthis, and Desmorthis bed are packed with Ostracodes. Above Desmorthis they are very large. Bathyurid trilobites were also seen.

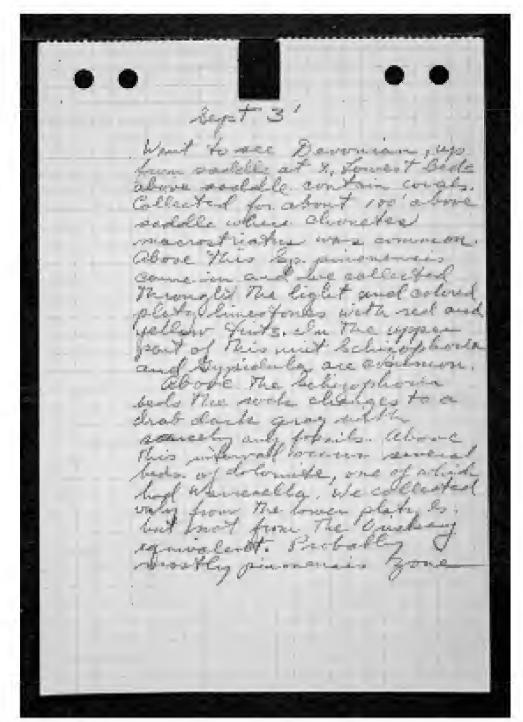


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Sept 3'

Went to see Devonian, up from saddle at x, Lowest beds above saddle contain corals. Collected for about 100' above saddle where clionetes macrostriatus was common. Above this Sp. pinonensis came in and we collected through the light and colored platy limestones with red and yellow tints. In the upper part of this unit Schizophoria and Gypsidula are common

Above the Schizophoria beds the rock changes to a drab dark gray with scarcely any fossils. Above this interval occurs several beds of dolomite, one of which had Warrenella. We collected only from the lower platy Is. but not from the Oriskany equivalent. Probably mostly pinonensis zone



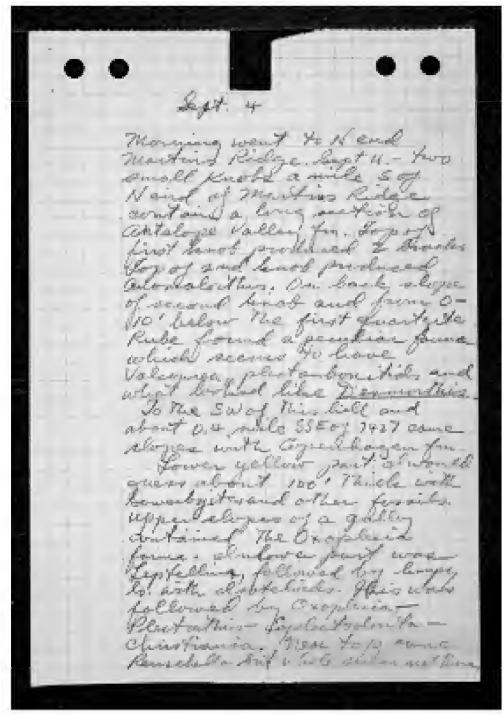
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Sept. 4

Morning went to N end Martins Ridge. Sept 4. - two small knobs a mile S of N end of Martins Ridge contains a long section of Antelope Valley fm. Top of first knob produced 2 brachs. Top of 2nd knob produced Anomalorthis. On back slope of second knob and from 0-10' below the first quartzite Rube found a peculiar fauna which seems to have Valcourea plectambonitids and what looked like [[underlined]] Desmorthis [[/underlined]].

To the SW of this hill and about 0.4 mile SSE of 7427 came slopes with Copenhagen fm.

Lower yellow part I would guess about 100' thick with Sowerbyites and other fossils. Upper slopes of a gully contained the Oxoplesia forma. In lower part was Leptellina, followed by lumpy Is. with Isoteloids. This was followed by Oxoplesia - Plectonithis - Eoplectodonta - Christiania. Near top came Reuschella but whole section not there.



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Started new roll of film with 2 pictures of abandoned buildings of [[Curti?]] Ranch. Pictures of prior roll closed with views of north end of Martins Ridge

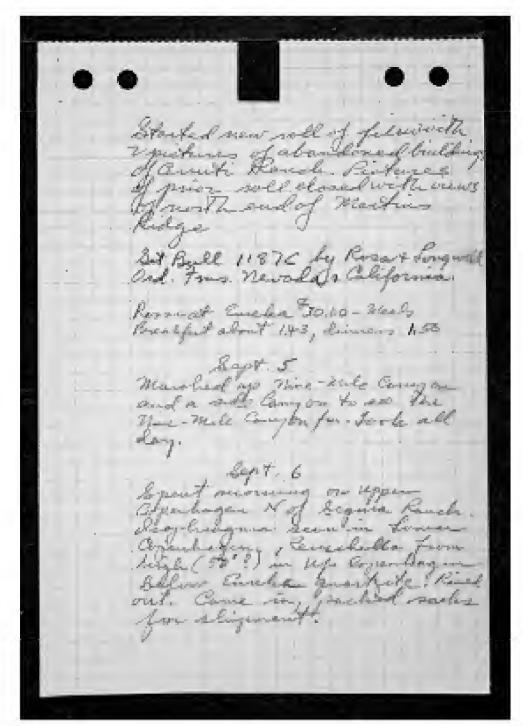
Set Bull 1187C by Rosa & Longwell Ord. Fms. Nevada & California.

Room at Eureka \$30.00 - Meals Breakfast about 1.43, dinners 1.58

Sept. 5

Marched up Nine-Mile Canyon and a side Canyon to see the Nine-Mile Canyon fm. Took all day.

Sept. 6
Spent morning on Upper Copenhagen N of Sequia Ranch.
[[Isophagma?]] seen in Lower Copenhagen, Renschella from high (50°?) in Up Copenhagen below Eureka quartzite. Rained out. Came in, packed sacks for shipment.

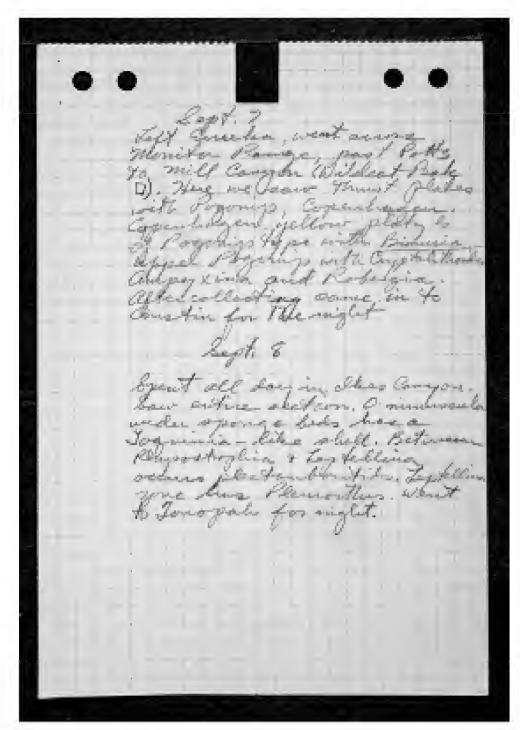


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Sept.7
Left Eureka, went across Monitor Range,past Potts to Mill Canyon
(Wildcat Peak [[image of square]]). Here we saw thrust plates with
Pogonip, Copenhagen. Copenhagen yellow platy Is of Pogonip type with
[[underline]] Bimuria [[/underline]] upper Pogonip with Cryptolithoides
Ampyxina and Robeigia. After collecting came in to Austin for the night.

Sept. 8

Spent all day in Ikes Canyon. Saw entire section. O. minuscula under sponge beds has a Toquimia-like shell. Between Rhysostrophia & Leptellina occurs plectambonitids. Leptellina zone has Pleurorthis. Went to Tonopah for night.

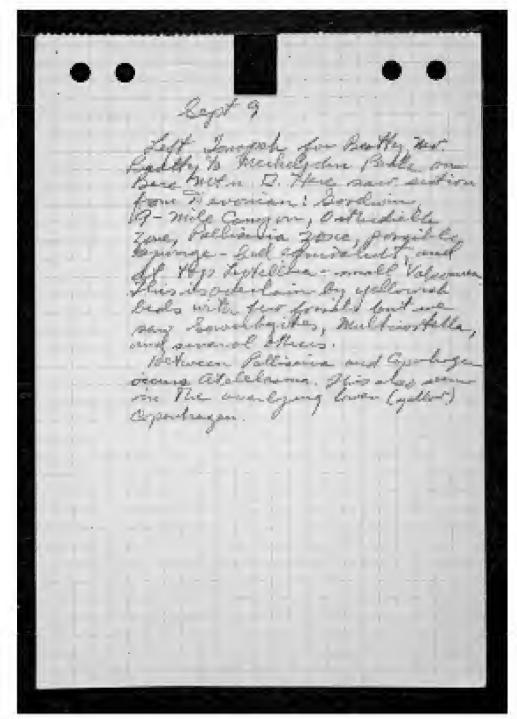


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Sept 9

Left Tonopah for Beatty Nev. Beatty to Meiklejohn Peak on Bare Mtn [[image of square]]. Here saw section from Devonian: Goodwin 9-Mile Canyon, [[Orthidiable?]] Zone, Pallisonia Zone, possible sponge - bad equivalent, and at top Leptellina - small [[Valecrocea?]] This is overlain by yellowish beds with few fossils but we saw Sowerbyites, Multicostella, and several others.

Between Pallisonia and Copenhagen occurs Atelelasma. This also seen in The overlying lower (yellow) Copenhagen.



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Sept. 10

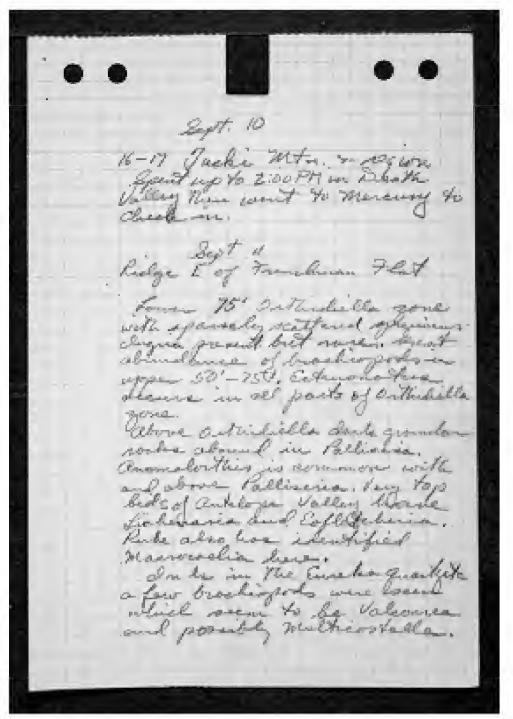
16-17 Tucki Mtn. & region Spent up to 2:00 PM in Death Valley then went to Mercury to check in.

Sept 11 Ridge E of Frenchman Flat

Lower 75' Orthidiella zone with sparsely scattered specimens. Ingria present but rare. Great abundance of brachiopods in upper 50'-75'. Ectenonotus occurs in all parts of Orthidiella zone.

Above Orthidiella dark granular rocks abound in Palliseria. Anomalorthis is common with and above Palliseria. Very top beds of Antelope Valley have Lichenaria and Eofletcheria. Rube also has identified Macrocoelia here.

In Is in the Eureka quartzite a few brachiopods were seen which seem to be Valcourea and possibly Multicostella.



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Sept. 12

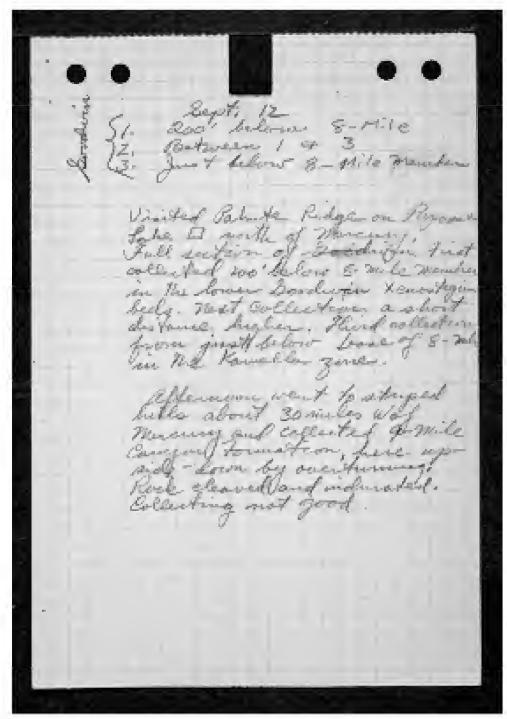
[[written sideways]] Goodwin [[/sideways]]

{ 1. 200' below 8-Mile { 2. Between 1 & 3 { 3. Just below 8-Mile Member

Visited Pahute Ridge on Papoose Lake [[drawing of open box]] north of Mercury.

Full section of Goodwin. First collected 200' below 8-Mile Member in the lower Goodwin Xenostegium beds. Next collection a short distance higher. Third collection from just below base of 8-Mile in the Kainella zone.

Afternoon went to striped hills about 30 miles W of Mercury and collected 9-Mile Canyon Formation, here up-side-down by overturning. Rock cleaved and indurated. Collecting not good.



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