

G. Arthur Cooper - Field notes, 1964

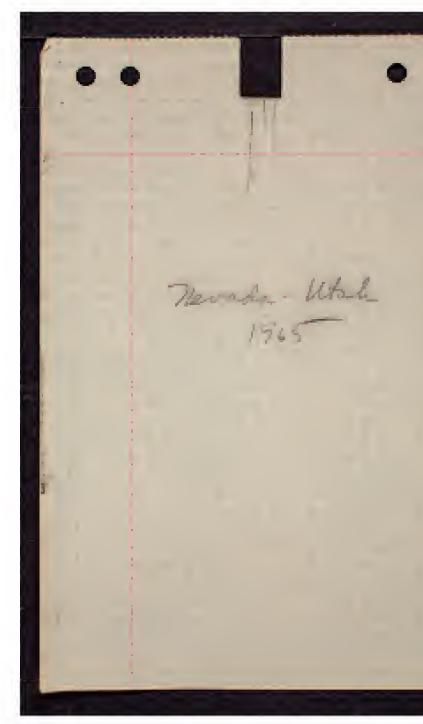
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Nevada-Utah 1965



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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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Toff Unstrington 6:15 and avived Definer at 9:20.3 mit us; striged at Homesterd mitel Lodging \$4:12.

Hant River of Ealer part & ant What River of Ealer part & ant What HO to the all that for the night Breakfart 1134, Luch and and angept 2062, Bookging Vernal 5.35.

Ang 29 hund to minister that have been to arrow winted Basin Dennel to Manila, manila to trease Kines + Manila, manila to trease Mest these and napred at 8:32 in Logan. One woll taken in Princence Stark and on way between Varial and Breas Ringer. One inst of teles take.

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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.

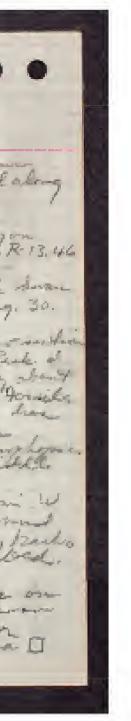
In Green Canyon saw section from UE through Swan Peak. I collected home - Garden City about 300' strating. above The E. fossils few. Lower Swan Peak has [[limey?]] beds in which occur Anomalorthis and Syntrophopsis. Fossils rare above middle Swan Peak.

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]]

ano 30, some of and along Sum Parti B- 1.20 , hands \$ 50: 5- 4,00 Blang Barn Rel tric between 250 26, TAN, RICH for high Some Peake, lost locality on ling, 30. Quer Co from U.E. Mungled Sure Park. 300'strating about The Er goniches Louis Some Pride dress hedre in which occurs lashalorthis and synthy by mentalle with more above Park. and and the second han 7 preptoliter, Sporte lobets in shalo local et. Elent manitera

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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

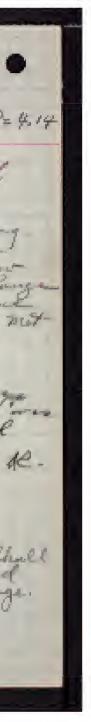
- 11 .5 of rd. Skull [[Rock?]] Pass
- 12 Fillmore Skull Rock Pass
- 13 Confusion Range And with lava cap.
- 14 Fault S end Confusion R. Warm Point

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]].

B-1,24, 6/2 125 31 5=2,20 R= 4.14 10 - Thread Place I nelo Hopki'. Left Legan early in morning called on J. Hilly and sont callettins from Emprison Rev after conference with It we can't Sa to thattan for The night. met Peresaran Flower here George CAP 14 - Freel Warm forat The Barn D, Wtah Sopt. 1 = about 1 min SW of Shall Rock Past at junction of Abad South with confusion Rouge. notele Back D.

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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 Mesa.



Sapst 12 - Long sestion 1/4 mile 5 of Forial metry Whit 9030-225-14W. He Board D. Lestion started in upper Wahnsch. Collected Hageemoride bad, about I' Rink at top of Wahnsch. Just contained what opposis to Orthambouides antolates Throughout and with anonador this opposing at The top.

Kannak no darken shale with anomalor this which is arth anomalor than which is comman appeared K-11. At the top of K-11 it is a fundant i <u>Cruchaeley</u> extend to the top of that instances d't is expectedly abundant in K-10 and the town helf to those K411. A smaller Orthanbouite, systems at base of K-12. Deamonthis appeared at top of Konorth.

Supt. 13 - Waharah anylets within bala, conflict Heavenon onice Inthe his and hypotrophopein. We collisted

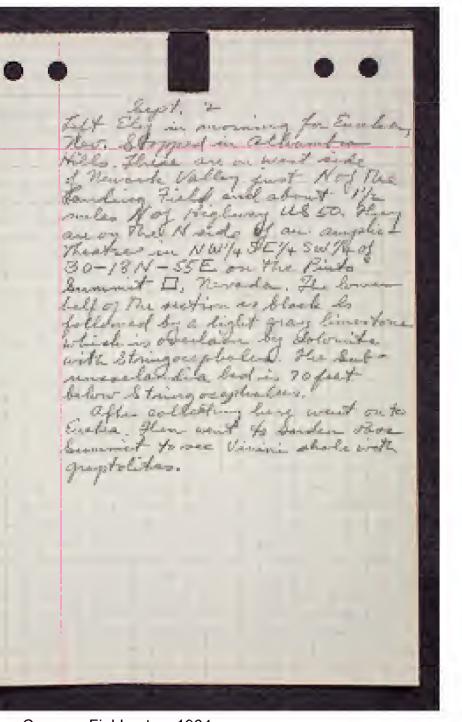
fillenere formation and lower part of realized displayed

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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 Stringocephalus. 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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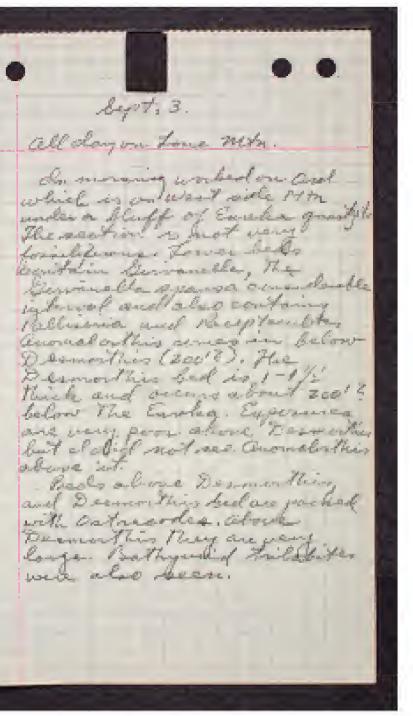
Sept. 3.

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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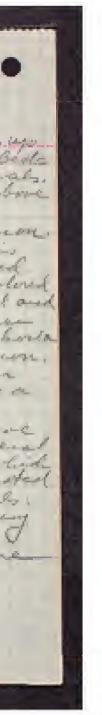
Sept 3'

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 ls. but not from the Oriskany equivalent. Probably mostly pinonensis zone

Auger 3 to see Barrowsan , 1400 added at X, Formant Bests couply. we soddle am Collected for about 100 above seddle where churcher macrostriatics where arminer above This top price a ion and day collected Thronglis The light and orlow. plate Olimestonles with red yellow fints. In To ydiduly are avoilmen obe The believesticia to The south clied Inab darks anon in attendency andy forfailes. allow and wordf bore in the a bade of dolomite, one of have the tower plater is Incit from The Quist

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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.



Morning went to 11 each anall knowld a min Nainal of mariting R contained a long section of antalogee Vallang for Soprat Top of and land produced second knot and from 0-10' below the first quarterste Rube found a scentrice forma which second to have Valengen platembonitides and which borned like <u>Dequarthis</u> What live and what the figure about 0,4 mile SSE0; 1427 come alogies with lighthousen for forver yellow part a somethic quere about 100 Thicle with howeverysterand other formals. appender alogues of a galling dontained The Ox optimid forma . Indones part was ing, followed tog with districts. Higu allowed de, C atenthis days intrania, fiere to -Remarka Star Ship & with the annel

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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.

Started new roll of felwindthe upictures of abandone of built prior sold closed with beaus north and of Martins ida a But Bull 11876 by Rosart Singuril and Frus. nevald's Colifornia. Porrado Euclia 30.10 - Heals Recalified about 1.43, dimens 1.50 Marched up Time- sule Consigna-and a sufficienty on to see the of mile Compon for Jorde all day. Sept. 6 menoring on upper 1 Envielation ten and productions

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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.

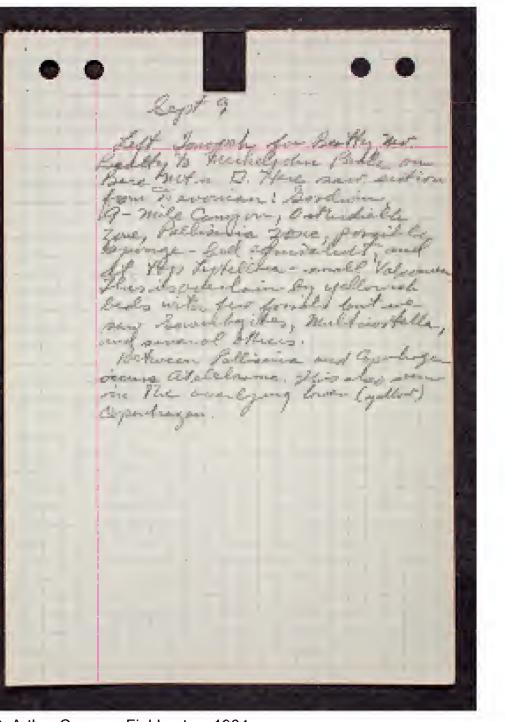
rection, weat agains a 8 Canada a milf Congress the D). Here we leave therest Poponia. orgenings the par win aut pay & inter and Robelgia. aut pay & inter and Robelgia. Alter collecting come in to Lept. 8 bjent all say in Shess Conyon. Law entrie skation, 9 numbersula under sponge hels have a Sogninia- tike shell. Between Physiskophia & tas telling schuss pleaten blow tits. Lightlin your hus Plemostlins. Went to Jono you 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.

Sept. 16-17 Jackie Mtr. 7 125 wm General up to 2:00 PM in Death Valley New won't to mercury to Check in. Ridge E of Frenchman Flat Former 75' arthibille gone with sparsely scattered officients Sugnine growth but norther breat abundance of bracking office upper 50'-750. Estimato fra desire in al parts of arthibille gone. Browell. above astrictically deale groundan nortes abound in Pallishia. anomalorthis is common with and above talliseries. In top and above talliseries. In top bide of antilopen Valley there ficheraria and Coffetenia. Rule also has identified Mannalia here. In the in the Ensetie quality a few brechingtons we back strath mithies talla

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Sept. 12

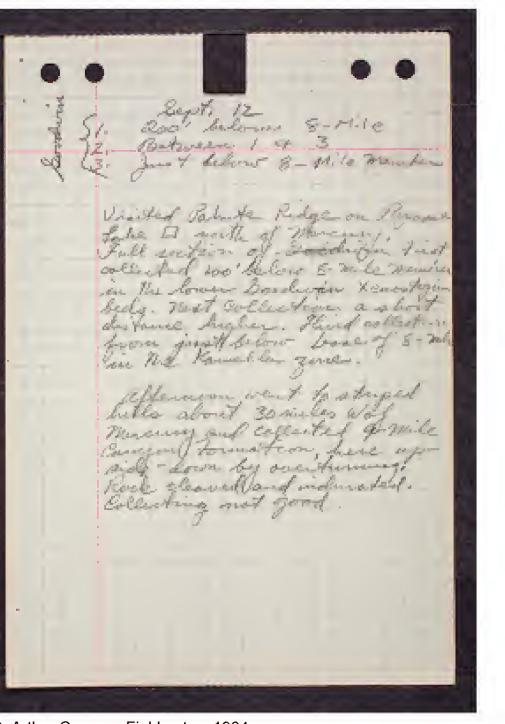
[[written sideways]] Goodwin [[/sideways]]

{ 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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