Sucker Creek Beds, sediments, deposits

Miocene: Eastern Oregon.

D. W. Scharf, 1935, Carnegie Inst. Washington Pub. 453, p. 98–118. Description of a Miocene mammalian fauna from Sucker Creek. The Sucker Creek beds are directly related to Payette formation as shown by the flora and such comparison as can be made between the fossil mammals obtained at Sucker Creek and those from type section of the Payette. Future geologic mapping may show that Sucker Creek beds are an integral part of Payette formation. The beds carrying the fossils consist of fine- to medium-grained pyroclastics, varying from white to green and brown. Presence of fish vertebrae and ostracod shells indicates deposition of at least part of the sediments in body of water.

Occur along lower course of Sucker Creek in eastern Malheur County. Important collecting localities are about 9 miles north of Rockville, Oreg., and about 5 miles west of Oregon-Idaho border.

Sucker Creek beds Informal 1938

Smith, H. V., Some new and interesting late Tertiary plants from Sucker Creek, Idaho-Oregon boundary: Torrey Botanical Club Bull. v. 65, no. 8

S(221)
T 64

p. 564; Name just mentioned; probably informal.

~~Taken from Univ. of Mich. Dept. Botany Papers no. [illegible]~~

INFORMAL

SE Oregon and
Owyhee Co., Idaho?

Late Tert.

Sucker Creek local fauna, 1941

Wood, Horace, E. 2nd., R.W. Chaney, John Clark, E. H. Colbert, G. L. Jepsen, J.B. Reeside, Jr., and Chester Stock; Nomenclature and Correlation of the North Amer. Continental Tertiary, Geol. Soc. Amer. Bull. vol. 52, no. 1. Jan. 1941

p. 32,

apparently in the Payette formation, early Barstovian, Malheur Co., Oregon (Scharf, 1935) p. 99-100

Scharf uses "Sucker Creek beds"

INFORMAL

but no formal description

Miocene

Sucker Creek Fm. (new) 1962

Kittleman, L. R., Jr., Geology of the Owhee Reservoir area, Oregon: Dissert. Abs., v. 22, no. 12, pt. 1, p.4320

Includes Leslie Gulch tuff mbr. (new).
1600' thick.
Overlain by Jump Creek Rhyolite (new).

Late Miocene SE Oregon

Sucker Creek Fm. 1962

Corcoran, R. E., and others, Geology of the Mitchell Butte Quadrangle, Oregon: Oregon Geological Survey Geol. Map Ser. GMS 2. Text.

Square 2
Described

Miocene E. Oregon

Sucker Creek
Payette-Sucker Creek Fm.

1963

Newton, V. C., and Corcoran, R. E., Petroleum geology of the western Snake River Basin, Oregon-Idaho: Oregon Dept. Geol. & Min. Res., Oil & Gas Inv. No. 1

(285)
q0i5i

p. 6

Middle or upper Miocene

Snake River Basin
Oregon-Idaho

Sucker Creek fm.

1964

Baldwin, E. M., Geology of Oregon: Ann Arbor, Mich, Edwards Bros., Inc.

203(285)
qB19g

Fig. 7 (p. 7)

p. 91, 133, 134

Miocene

Oregon

Sucker Creek fm. 1964

Axelrod, D. I., The Miocene Trapper Creek flora of southern Idaho: California Univ. Pubs. in Geol. Sci., v. 51.

Tables 1, 8-11, App. 1 (p. 139)

p. 68, 70, 71, 73, 90

G(276)
qUn4

Tertiary

S. Idaho

Sucker Creek fm.

1965

Corcoran, R. E., Geology of Lake Owyhee State Park and vicinity, Malheur County, Oregon: The Ore-Bin, v. 27, no. 5.

p. 81-98

U. Mio.

SE Oregon

Sucker Creek Fm. (rank raised)

1967

Kittleman, L. R., and others, Geologic Map of the Owyhee Region, Malheur County, Oregon: Oregon. Univ., Mus. Nat. Hist., Bull. no. 8.

S(285)
Un45b

incl.

Leslie Gulch Ash-Flow Tuff Mbr.

U. Mioc.

EC. Oregon

1968

Sucker Creek Fm.

Benson, G. T. and Kittleman, L. R., Geometry of Flow Layering in Silicio Lavas: Amer. Jour. Sci., v. 266, no. 4, April. S(200)
p. 265 - 276 Am48

273

Cenoz. Oreg.

Sucker Creek Fm.

1968

Asher, R. R., Geology and Mineral Resources of a Portion of the Silver City Region, Owyhee County, Idaho: Idaho. Bur. Mines and Geology, Pamph. 138, June.

p. 54-6, Fig. 8C (283)
P

incl. Leslie Gulch Ash-Flow Tuff Mbr.

U. Mio.

SW. Idaho

Sucker Creek Fm.

1968
pub.

Staples, L. W. and others, Cavansite, a New Calcium Vanadium Silicate Mineral: in Abs. for 1967, GSA Spec. Paper 115.

p. 211-212

G(200)
G29sp

U. Mio.

Oreg.

Sucker Creek Fm. (age) 1969

same as
~~file with~~ Succor Creek

*Walker, G.W., Some Comparisons of Basalts of Southeast Oregon with those of the Columbia River Group: Columbia River Basalt Symp. #2, Proc., Mar., p. 223-237
227

201(280)
q C 723p

of Kittleman, '62

M.-U. Mio.

SE. Oreg.

Sucker Creek Fm. 1973

Greene, R. C., Petrology of the Welded Tuff of Devine Canyon, Southeastern Oregon: USGS PP 797.
p. 1-26 (200)
qB

incl. Leslie Gulch Ash-flow Mbr.

Kittleman & others, '65

Mio.

SE & EC OR

Sucker Creek Fm. 1973

Kittleman, L.R., Guide to the Geology of the Owyhee Region of Oregon: Oregon Mus. Nat. Hist., Bull. #21.
p. 1-61 S(285)
6 (F. 1) Un45b
47-varicolored, esp. bright red
50, 53-54-spelling "Sucker Creek" vs. "Succor Creek" explained
incl. Leslie Gulch Tuff [mbr.]

Mio. SE. OR

Sucker Creek Fm. 1975

Kimmel, P. G., Fishes of the Miocene-Pliocene Deer Butte Formation, southeast Oregon: MI Univ., Mus. Paleont., Pap. on Paleont. 14. G(255)
p. 69-87 M58p
70

underlies: Owyhee Basalt [Mio.]

K-Ar: 11 m.y. (age of up. Deer Butte)
[Mio.]

se. OR

Sucker Creek fm. (formal proposal)

1965

Kittleman, L. R., and others, Cenozoic stratigraphy of the Owyhee region, southeastern Oregon: Univ. Oregon, Mus. Nat. Hist., Bull. no. 1.

p. 6
fig. 4

type sec. desig.
incls. Leslie Gulch ash-flow tuff mbr.

late Mio. (Barstovian)

SE Ore.

Sucker Creek (officially ~~rejected~~)

Bureau Land Mangmt (BLM) prefers

See Succor Creek

(~~preferred~~.)

GNC
See Correspondence:
R.E. Corcoran
12.66

AS OF 5.11.73

GVC

PREFERRED "SUCKER" GNC ruling

Sucker Creek Fm [to show use] 1968

Shotwell, J. A., Miocene Mammals of southeast Oregon:
OR Univ Mus Nat Hist Bull. 14, Aug (285)
p. 1-67 Un45b
11

incl. Leslie Gulch Ash-flow [mbr]

under: Deer Butte Fm

Mio se.OR

Sucker Creek Fm.

1970

Walker, G. W., Cenozoic Ash-Flow Tuffs of Oregon: The Ore Bin, v. 32, no. 6, June. p. 97 - 115 (285)
D3o
100

incl. Leslie Gulch Ash-flow Tuff Mbr.

also see spelling: Succor Creek

Mio.

Oreg.
EC † SE

Sucker Creek Fm.

1971

same as Succor Creek

Sheppard, R. A., Clinoptilolite of Possible Economic Value in Sedimentary Deposits of the Conterminous United States: USGS Bull. 1332-B.
p. 1 - 15 (200)
5(T.1) B
to show use

of Kittleman and others, '65

Mio. Oreg.

Sucker Creek Fm. 1974

Laursen, J. M. & Hammond, P. E., Summary of Radiometric Ages of Oregon and Washington Rocks through June 1972: Isochron/West, NM Bur. Mines & Min. Resources, Bull. Isotopic Geochron., #9, Apr. G(272)
p. 1-32 qIs72
28

tuff

K-Ar:
18.5±1.7 m.y. Malheur Co
15.4±0.9 m.y. OR

Sucker Creek Fm

1975

Bowen, R.G. and Blackwell, D.D., The Cow Hollow Geothermal Anomaly, Malheur County, Oregon: The Ore Bin, v. 37, no. 7, July. (285) D30
p. 109-121
110, 116 (F.1), 119 (F.2)

111

underlies: Owyhee Basalt (M. Mio.)

M. Mio. or older

EC. OR

Sucker Creek Fm [geog. ext. fr. OR] 1975

Pansze, A.J. Jr., Geology and Ore Deposits of the Silver City-De Lamar-Flint Region, Owyhee County, Idaho: ID Bur. Mines and Geol. Pam. 161, Dec. (283) P
p. 1-79
42(F.16)...corr. ch.
of Kittleman et al, '65 & Asher, '68

equiv. to pt. Silver City rhyolite (Mio.)

under: rhyolite at Owyhee Dam (Mio.)

Mio. OR, sw ID

Sucker Creek Fm. 1975

Bennett, E. H. II and Galbraith, J. H., Reconnaissance Geol. and Geochem of the Silver City-South Mtn. Region, Owyhee Co., Idaho: ID Bur. Mines & Geol. Pam. 162.
p. 1-88 (pl. 1 in pocket)] (283)
8 (F. 4) P
19, 20
altered tuff, volc. ss. & sh.
vitric tuff, arkosic ss., cobble cgl.

U. Mio. sw. ID

1977

Sucker Creek Fm

Erikson, E. H., Preliminary study of the uranium favorability of Malheur County, Oregon: Bendix Field Eng. Corp. for U.S. DOE, Grand Jct. office, GJBX-91 (77). P(200)
p.1-14 En27gjbx
6 (T.2)

under: Owyhee Basalt (Mio)

altered volcaniclastic ss, ss, sh

M (?) Mio.

se. OR

Sucker Creek Fm 1977

Warner, M. M., The Cenozoic of the Snake River Plain of Idaho: WY Geol Assoc Gdbk 29.
p. 313-326 [purpose of study: fuel search] G(282)
324..summary qW98f
313..detailed lith

under: Owyhee Rhyolite (Mio)
over: Jarbidge Rhyolite (Mio)

Mio ne.ID

Sucker Creek Fm (815 m) 1981

Wood, S. H. and Anderson, J. E., Geological, Hydrological, Geochemical, and Geophysical Investigations of the Nampa-Caldwell and adjacent areas, southwestern Idaho: ID Dept Water Resources Bull. 30, part II, Dec., Chapter 2..Geology P(283)
p. 9-31 qR24w

17..monotonous brown claystone and siltstone w/ welded and non-welded ashy tuffs and a basalt flow

18..age based on Barstovian mammalian fossils

under: Owyhee Basalts: 13.6-13.1 m.y.

u.Mio sw.ID

Sucker Creek Fm [age refined] 1982

Satchell, Loretta, The stratigraphic distribution of broad-leafed and conifer pollen in Miocene volcanic sediments -- a continuous pollen record in the Sucker Creek Formation, Oregon: AASP Ann. Mtg. #14, Abs. of Proceedings (part 1).

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p. 291.. age from pollen record based on 60 meter section of tuffaceous siltstones

G(200) g Am 35a

middle Miocene

ID - OR

Sucker Creek Fm (isotopic age) 1985

Brown, D. E. and Petros, J. R., Geochemistry, geochronology, and magnetostratigraphy of a measured section of the Owyhee Basalt, Malheur County, Oregon: OR Dept Geol and Min Ind, Oregon Geology, v. 47, no. 2, Feb (285) p. 15-20 D3o

15, 19..age is determined by Kittleman, L. R., Milhollen, G. I., Leeman, W. T. and Davis, D. A. (in prep) Neogene volcanism and chronology of the Owyhee Upland, nw. Great Basin, OR

under: Owyhee Basalt (14.5 m.y.)

K-Ar: 15.5 m.y.

Mio ec.OR

Sucker Creek Fm 1986

Scott, D.F., Mineral resources of the Honeycombs study area, Malheur County, Oregon: USDI, Bur. Mines, Mineral Land Management (MLA), Open File Rept #30-86 (w/ USGS) p. 1-26 402(200)
8-9 Un34msi
9..incl. Leslie Gulch Ash-Flow Tuff Mbr which contains the gemstone "picture jasper"

under: Deer Butte Fm (Mio-Plio)

Mio ec OR

Sucker Creek Fm [continued use] 1988

Walden, K.D., A stratigraphic and structural study of Coal Mine Basin, Idaho-Oregon: OR Geol, v. 50, no. 1, Jan (285)
p. 8--Abstract D3o

major emphasis of study: composite strat sec of predominantly volcaniclastic fluvial, lacustrine, and deltaic sediments called Sucker Creek Fm; meas 265 m; 21 plant and 2 animal fossil zones precisely placed

Coal Mine Basin
Mio OR-sw. ID