

Love Ranch Formation

Tertiary: Central southern New Mexico.

F. E. Kottowski and others, 1956, New Mexico Bur. Mines Mineral Resources Mem. 1, p. 2 (fig. 1), 6 (table 2), 13 (fig. 7), 63 (fig. 14), 69-71. Intercalated boulder-conglomerates and reddish siltstones that overlie Mancos-Eagle Ford beds with pronounced erosional unconformity. Total thickness uncertain because formation is involved in thrust faulting. May be as much as 2,100 feet thick at type locality; 100 feet and less in Organ Mountains.

Named for exposures northwest of Love Ranch, San Andres Mountains, Dona Ana County.

Love Ranch fm.

1961

*Dane, C. H., and Bachman, G. O., Preliminary geologic map of the southwestern part of New Mexico: USGS Misc. Geol. Inv. Map, I-344 (1:380,160) expl.

Tertiary

New Mexico

Love Ranch Fm.

1963

Kottowski, F. E., Paleozoic and Mesozoic strata of
southwestern and south-central New Mexico: New
Mexico Bur. Mines and Min. Res. Bull. 79

(272)

B

p. 76

Tertiary(?)

SW & South-Cent.
New Mexico

1965

Love Ranch Fm.

Lochman-Balk, Christina, Lexicon of Stratigraphic
Names used in Southwestern New Mexico: in New
Mexico. Geol. Soc., Guidebook, Southwestern New
Mexico II, Field Conf., no. 16, Oct. G(272)
p. 93-109 qN46f

107

Tert.

SW. New Mex.

Love Ranch Fm.

1969

Bachman, G. O. and Myers, D. A., Geology of the
Bear Peak Area, Dona Ana County, New Mexico:

USGS Bull. 1271-C, 46 p.

(200)

p. 1-

E

✓69 (L.R. Fm of Kottlovskai⁴⁰ et al. (1956) adopted)

Tert, low.

SC. N. M.

(coded 120 on printout)

Love Ranch Fm. (age clarified)

1969

Kottlowski, F. E., Weber, R. H., and Willard,
M. E., Tertiary Intrusive-Volcanic-Mineralization
Episodes in the New Mexico Region: GSA Abs.,
Pt. 7, Nov. Mtg. at Atlantic City. G(200)
p. 278-280 G3a

M. Eoc.

N. M. &
adjacent states

Love Ranch Fm.

1970

Hawley, J.W.(ed. & Compiler), Cenozoic
Stratigraphy of the Rio Grande Valley Area,
Dona Ana County, New Mexico: The El Paso Geol.
Soc. Guidebook #4, Ann. Field Trip, Mar.

G(245)

qEl 69f

9, 19, 25-of Kottlowski and others, '56.

Cret(?)†/Low. Tert.

SC. N.M.

Love Ranch Fm. (age clarified)

1971

Seager, W. R., Hawley, J. W., Clemons, R. E.,
Geology of San Diego Mountain Area, Daña Ana
County, New Mexico: New Mexico. Bur. Mines and
Mineral Resources, Bull. 97. (272)
p. 1 - 38 B

4-age

U. Cret. to Eoc.

SC. N.M.

Love Ranch Fm (100-2100')

1973

Kottlowski, F. E., Pre-Pliocene Rocks in La Mesa
Region, Southern Dona Ana County, New Mexico: El
Paso Geol. Soc. Gdbk. #7, Apr.

p. 37-46

38, 39, 43

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qE169f

red beds and cgl

U. Cret. or Eoc.

Organ & San Andres Mts.
sc. NM

Love Ranch Fm. (50')

1973

Seager, W. R., & Hawley, J. W., Geology of
Rincon Quadrangle, New Mexico: New Mexico
Bur. M. & M. R., Bull. #101.

p. 1-42

(272)

v(abs), 36-meas. secs, sh. 1

B

6

fanglom.

Low. Tert.

(near Las Cruces)

SC. NM

1973

Love Ranch Fm. (0-300')

Clemens, R. E., and Seager, W. R., Cenozoic Geology
of the Goodsight-Cedar Hills, Hills Volcanic-Tec-
tonic Depression: El Paso Geol. Soc. Gdbk. #7, Apr.

p. 50-55

G(245)

52

qE169f

coarse fan and talus debris fr underlying ls.

under: Rubio Peak Fm. (Eoc.(?))

(local unconformity)

over: unnamed ls., dol., sh. (Paleoc. & Cret.)

Low. Tert.

sc. NM

Love Ranch Fm. (200')

1975

Seager, W. R. and Clemons, R. E., Middle to Late
Tertiary Geology of Cedar Hills-Selden Hills Area,
New Mexico: NM Bur. Mines & Mineral Resource, Circ.
133. p. 1-23, 10(T.1), X-sec. in pocket

(272)
qC

under: Palm Park Fm. (Eoc.)

boulder cgl., red ss., sts.

Eoc.

sc. NM

Love Ranch Fm.

1975

Seager, W. R., Geologic Map of South Half of San Diego Mountain Quad., New Mexico: NM Bur. Mines & Min. Resources, no. 35. (text on back).

under: Palm Park Fm. (Eoc.)

over: Abó Fm. (Perm.)

under rocks dated 42 m.y. (text)

Low. Tert.

sc. NM

Love Ranch Fm (50')

1975

Glover, T. G., Geology of the Central Organ Mountains,
Dona Ana County, New Mexico: NM Geol Soc Gdbk 26.

p 157-161

G(272)

qN46f

157, 159

cgl

under: Orejon Andesite (Eoc?)

over: Hueco Fm (Perm)

Love Ranch Fm.

1976

Seager, W. R.; Kottowski, F. E.; Hawley, J. W., Geology
of Doña Ana Mountains, New Mexico: NM Bur. Minest
Min. Resources, Circ. 147.
p.1-36, sheet 1 in pocket

(272)

qC

on map only-grid 20

mapped w/Palm Park + Cleofas Andesite(new, f.p.)(U. Eoc.)

U. Eoc.

sc. NM

Love Ranch Fm (age info)

1981

Lucas, S. G. and Ingersoll, R. V., Cenozoic continental deposits of New Mexico (an overview): GSA Bull, v. 92, no. 12, Dec p. 917-932

G(200)

G29

921..Seager, 1981, says Love Ranch-McRae spanned Late Cretaceous-Paleocene interval w/ Love Ranch continuing into the Eocene after termination of Love Ranch deposition; Love Ranch intertongues: Palm Park Fm (Eoc)

U.Cret to Eoc

NM

Love Ranch Fm [continued use]

1988

Seager, W.R., and Mayer, A.B., Uplift, erosion, and
burial of Laramide fault blocks, Salado Mountains, Sierra
County, New Mexico: NM Bur Mines and Mineral Resources,
"Geology," v. 10, no. 3, Aug (272)
p. 49-60 Nmg

51 (fig. 3)..columnar section of sedimentary and
volcanic rocks exposed in Salado Mountains

interfingers: Rubio Peak Fm (l. Eoc-e. Olig)

late Eoc

sc. NM

Love Ranch Fm [age extended]
[to Paleocene]

1989

Seager, W.R. and Clemons, R.E., Geology of the
^{Las}
Cruces area, New Mexico, in Drewes, Harald,
Tectonics of the Eastern Part of the Cordilleran
Orogenic Belt, Chihuahua, NM, and AZ : 28th
Int. Geol. Cong Gdbk T121, June/July '89.

p. 11-15

11, 13.. text and Fig 8 →

div: upper + lower
members

201

In 393f

Paleoc or Eoc.

sc. NM

Love Ranch Fm

1989

Seager, W.R., Geology beneath and around the West
Potrillo basalts, Dona and Luna Cos., New Mexico: NM Bur
Mines and Min Res, "NM Geol.," v. 11, no. 3, Aug (272)
p. 53-59, fig. 2..strat col Nmg

..West Potrillo Bas (Hoffer, 1976) consists of lava
flows which bury older rocks and structures whose current
ages and geometries are here summarized

55..sequence resembles Eoc Love Ranch Fm of Caballo-
San Andres Mtns area (correlated by Seager and Mack..in
press)

under: Rubio Peak Fm (l. Eoc-e. Olig)
unconf. over: Lobo Fm (L. Cret-e. Tert)

Late Cret/Eoc

sw.-sc. NM