## LIFE EXTENSION BULLETIN

## 4 IN 1 - D. M. S. \& B.



Artist's Conception of the Cause of the D, M. S. \& B. Fossil Beds-Palos Verdes Hills.
WHAT WE WANT TO KNOW IS When Smith Left Home, and How He Got Out of the D. M. S. \& B. FOSSIL BEDS


IOTFI Selitilit Sit Speclililis fouin AT LIME CUMRRY

Torrance Lime and Fertilizer Company Heartily Commended by Prof. Bailey The poet speaks of the everlast-
ing hills," because they are longing hills, because they are long.
lived in comparison to the short life
of human beings. The fact is that hills, mountains
and valleys are all born, reach ma turity and pass away, and then maa
is simply $a$ series of UPS AND 18 simply a series. ote clouds for
DoWNS, elevated to the beneath the
a time and sinking
waves of the ocean, only to be rewaves of the
born again.
born again.
Each hil, each mountain, beari
the mark, the scars, of tis battles
for existence, and the work of the geologist is is o stud
find out the causes. find out the causes.
The San Pearo Hill, or range, is
plainly marked from Head to foot
whe with scars, and these "Notes" are
for the purpose of calling attention
to a fow of them, and trying to
 are a low range Immediately west
of Los Angeles Harbor, cumininating
In San Pedro Hill 1482 feet above
 min.
The range measuring from point
Firmin northwest to Flat Roek Firmin northwest to Flat Rock
Point is ten miles long and the
width is about 4y miles. It is
bounded on the east by Los Angeles bounded on the east by Los Angoleg
Harbor (the Clity of San Pearo,
on the south and wiest by the Pacif on the south and west by the Pacific
Ocena, and on the north by the
Moneta-Downy Plains. Te land riser to the summit in a
sertes or waves that
correspond to the sy stem of terrace serires of wave-ut terraces that
correspond to the system ot terrace
that oxisit Son Clemente Isand
and others that may be observed all and others that may be observed all
along the Coast Hine of the State.
GENERAL GEOLOGIC SECTON Rent Pariod-Strand Formation-
Rearine Bands Terrace Epoch-
Mated Marine bands. Terrace Epoch-
Raised beaches datrige at various
times from the Inter-Glacial to after the San Pedro epoch, Speristocene Periono
Epoch-(2) Upper S. P., soft sandEpoch (2) UDper S. P., soft sand-
stones and. indurated sandst (1)
Lower S. P., marls and light-colored Panilocene Period-San Diego For-
mation, red and yellow standstone. mation, red and yellow standstone.
Mocone Period-Monterey Forma-
tion, bituminous shale and sand-


 period are exposed at the heads of
sereril canyons near the summitt of
the range. (2) Elevation-The Sierras mese
born at the end of the Jurassic
period. The Franciscan rooks were period. The Franciscan rooks were
probably elevated a little, forming a ow Hiand,
(3) This range of hills was prob-
abw 1 sland through the Ore-
tace the and taceous and Eocene periods, as no
sedimants of thase times are ound
around the flanks of the hille
 mation-During the Miocene perrod
this low sland sunk to a depth of
500 fathoms beneath the waves, and
50, ${ }^{m}$
 best in. Mrocene Sea, covered most of
Southern Californala, reaching to the
the foot of the stiarra Madre. The The
Montery Tormation is well know,
it eontaing the petroleum of the
 showling the Monterey for 100 to
300 fot in thickness, the Hhales dip-
ping to the north. At TImms Point the Monterey is overiatd by the Sam
Diogo formation, whith yith from
5 to 30 dogrees' east. In the City 5 to 30 dogrees east, In the city
of San Pedro a well penetrated the
Monterey to a donth of San Pedro a well penetrated the
Monterey to a depth of 850 foet,
showing barown ahale, with a little heary oil and consitcerable asphalt.
The seliments were latd down in in
water less than 500 fathoms deen water
but far enough from shore (north o o
PRanadona) to be Ane, clayey and
silt-1lke,
The general strueture of the
ange
han made up of the Monterey
hales and standstones, and theso
 (6) Mlevation-Coast Range Born
-Just aftor tho monterey bedimonts
were laid down the rocks were fold(Prof. Baifoy's Goological Report
Continued on Page
and two.)

