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DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL PARK

FILE NO.

A HISTORY OF JOSHUA TREE NATIONAL MONUMENT

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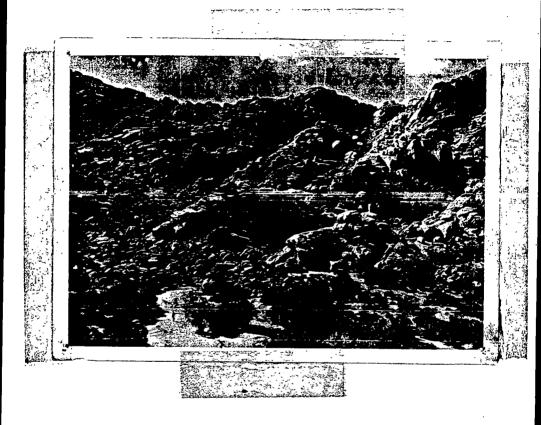
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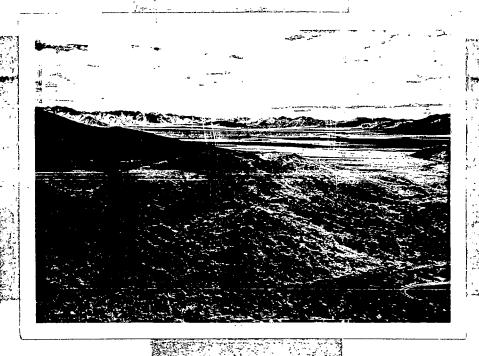
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[1954]

A HISTORY OF JOSHUA THEE NATIONAL MONIMENT



Indian Core area, Joshua Tree Matiesal Homesont (Ristory)



losking senses a portion of Pinto Zenia from the Black Mountains, Old Dale Boad in foreground.

Josima True National Monament (History)



The Old Adobe was built at the Conis in 1990 by a Mr. Aldridge of South Ann, California; with Milly Meaves and Jack Staking doing the work. It steed until 1947 when it was resed as it constituted a heart.

Joshua Tree Hational Hommont (Ristory)



Sa.ton View - Elevation 5125 feet.

Since much of this article, particularly
in its first part, is composed of verbatim quotations
from "A Handbook of the Joshus Tree Estional Momment"
by W. Fgbert Schenck and Frank R. Givens, and since
other facts from the Handbook have been extensively used,
appreciation is hereby acknowledged for their contribution.

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A HISTORY OF JOSHUA TIEF NATIONAL MONUMENT

GFOGPAPHICAL SETTING

Joshua Tree National Monument is located in south central California just north of 34 and is west of the 115th meridian. The area forms an ecctons or transition zone between California's two great deserts, the Colorado and the Mohawe.

In "A Handbook of the Joshua Tree National Monument", W. Egbert Schenck and Frank E. Givens describe the topography of the Moment as follows:

The LITTLE SAN BETNAFTINO FANGE starts in the northwest corner of the Momment and a syur extends southeast for 30 miles. The COTTONEOCO FANGE is in the southwest corner of the Mcmument. The FAGIE PANGE stretches along the Southern boundary east from the Cottonwood Range almost to the Coxcomb Fange. Another spur of the Little San Bernardinos extends east from the northwest corner. The DESERT QUEEN MOUNTAINS are a part of this spur southeast of Twentynine Falms. The FINTO MOUNTAIN FANGE parallels the east half of the north boundary. The COXCOME MOUNTAIN FANGE mostly inside the Momment, makes the east boundary. The HEXIE MOUNTAINS are in the center of the Mcmument." 1/

After making an extensive geological survey of the area in 1954, John Pogors of Fice Institute had this to says

"The rocks of Joshua Tree Estional Monument provide an ideal opportunity for the professional geologist to study processes which have occurred at depths perhaps as great as 20 miles below the surface of the earth. These rocks afford a rare chance for man to learn something of the interior of this planet." 2/

The mountain ranges within the Momment are of old rock but are recently formed. It is probable that at least part of the area was once covered with fresh-water lake deposits of the Miccene era. However, as molten masses of rock pushed up from below they often lifted the original surface far above where it had been, breaking and cracking it in the process. For this reason, the original surface was more vulnerable to erosion so that in places it has disappeared entirely. Hundreds of light to pinkish-grey rock formations are scattered over a large portion of the Momment, stamping it with a beauty of its own.

Transcontinental highways U.S. 60, 70, and 99 skirt the Momment on the south, making the area accessible to all of Southern California and the country at large.

The Southern Facific Failroad passes through Indio, Felm Springs, and Fanning to the south of the Momment. These cities are all within two hours drive from the Headquarters Fuilding at Twentynine Falms.

No airline or waterway facilities are evailable near the area, although a transcentinental air route passes over the southern portion of the Womment.

The most important population center near the Monument is

Los Angeles and environs. Also of importance are such large communities

as San Diego, Ontario, Pomona, Fiverside, and San Eernardino. Communities adjacent to the area are relatively small; the most important being Twentynine Falms, Indio, Falm Springs, and Eanning.

The bulk of the population is Anglo-American with the usual mixture of races in metropolitan districts. Comparatively large mumbers of Spanish-Americans reside in the area immediately south of the area.

The population in the Los Angeles area engages in the usual connercial types of work. The people to the west and south are principally agregian. To the south and east is the great agricultural region of the Imperial Valley.

One of the primary reasons for the steadily increasing populatity of the Joshua Tree National Monument was set down by its first Superintendent, James E. Cole, in one of his early reports:

"The people of Southern California are noted as travelers and due to favorable climatic conditions, outdoor activities probably rank first in recreational pursuits. Extended weekend motor trips are the rule rather than the exception. In the Los Angeles area auto emership per capita ranks with the leading cities of the world and is undoubtedly the highest in the Vestern United States." 3/

With the incertion of the Merine Corps Training Center at . Thentynine Palma in 1953, the use of the Menument for outdoor activities has increased greatly.

PERHISTOFIC STUDY OF THE APEA

Pinto Man

(From A Handbook of the Joshua Tree Mational Monument)

"Man's story in the Ecomment begins with a mystery tale of 'far away and long ago'. It is based on odds and ends which pre-historic men left behind. These are faint clues which may be variously interpreted; and the version which will not disappoint the imagination of the layman may not sustain the approval of the archeologist.

Fin the scutheast corner of Finto Fasin, in 1935, Mr. and
Ers. Filliam E. Campbell noted three important facts; (1) scattered
about were flint points, bits of pottery, parts of metates,
etc.; (2) the topographical features suggested that a lake had
once filled this part of the basin; (3) in the clay beds there
were fossilized tones of extinct animals such as primitive
camels and horses. If these artifacts were directly related to
the soreline of this lake, then the lake and the men who
left the artifacts must have been contemporaneous. Geological
opinion was that the lake was of the Fleistocene era. Thus
Pinto Man would have lived there probably 15,000 to 20,000
years ago. Further, if the artifacts could be positively
associated with the fossilized tones, Finto Man might well
be even older than 20,000 years.

"For several seasons, the Campbells worked on those theories

with the aid of technical experts. They checked the possibilities by collecting in other places and examining the shore-lines of other Fleistocene lakes in Southern California. In the end, meither correlation could be absolutely established, although meither could be definitely ruled out. Subsequently, specialists of the Southwest Euseum of Los Engeles developed the Campbell theories. Notably, they amplified the possibilities of the Finto type of projectile point to which the Campbells had called attention. This is a distinctively shaped, crude, flint point found on the Finto site. It has a basic resemblence to the famous Folsom Foint found in Colorade and elsewhere in the western high plains in direct association with the bones of an extinct type of bison. This resemblance and the crudity, the Campbells suggested, must indicate great antiquity.

This theory and Finto points and Finto culture have found acceptance among some archeologists. Such a culture is deemed to have been so primitive that pottery was unknown as were hors and arrows. The Finto point is supposed to have tipped a dart hurled by means of an atlatl or throwing stick. And these darts were hurled by very primitive men living on the shores of a fresh-water lake in a country amply able to sustain life with seed and game.

"The time at which some such recople may have lived in Pinto Basin may be subject to adjustment, as may be the

exact nature of their culture, for other archeelogists. including those of the Anthropology Department of the University of California at Berkeley, find objections to the acceptance of the above version. (a) There are not enough artifacts to account for the very long-time residence on the site which the theory demands. Pather a short-time comm is suggested by the scant amount of material. (b) Type and Time cannot be taken as synchymous; that is, an artifact is not old because it is crude or has a certain type of crudity. Selection can divide Finto artifacts into the "crude" and the 'fine': but such selection was not made by pre-history but must be made by modern students. Crudity can result from many causes -- inexperience, havits, haste, or intractable material, for example. Moreover at the Pinto site good roints are found on the same surface as the crude ones. (c) A 'pre-pottery' culture is usually taken to mean a paleolithic culture. A 'non-pottery' culture is by no means the same thing. A lack of pottery need not indicate antiquity. Por example, the Apaches, with no pottery, appeared many centuries after peoples of the Southwest who were skillful potters. If it be claimed that the Finto site was without nottery, the conclusion that it was relectithic need not follow. Fiute culture was also without rettery.

"(d) A radio-carbon test devised by atomic research
workers has greatly reduced pre-historic sees reasoned cut

by other methods. This Carbon 14 test cannot be applied to the lithic materials of the Finto site, but the general pre-historic age reductions make the early estimates of Finto Man's age unreasonable. This in turn makes the associated Finto Lake too young to be a Fleistocene lake and takes away the climate and conditions favorable to Man's residence on the site.

"Are there other sites in the Monument of the Finto Man type? None have been found, but research has been too limited to make this answer conclusive. It is possible for example, that the site at Copper Mountain, just outside the northern boundary, is the Pinto Type."

ATCHICINAL HISTORY OF THE AFFA (Prom A Handbook of the Joshua Tree National Momment)

Chemeheuvis

The age of Pinto Han and the details of his culture are the means by which specialists would relate him to other men of other places. However, too little is known of the adjoining areas in his presumed era to permit helyful statements here. Our first story postulates that Finto Man did not know pottery. Since rot-sherds are found at the site, we must presume that the postulate is in error, or that while on the site Pinto Hen acquired the knowledge of pottery, or that he was replaced by another EarlyPeople who knew pottery. The last assumption is the least controversial. If the totality of Finto site archeology be assigned to this Early Feople, rather than only part of it being assigned to Finte Man, it then appears probable that these Early People were related to the Chembeuvi Indians. or were the ancestral Chemeheuvis. The name Chemeheuvis is used because this group of Indians were living along the Colorado Fiver only some fifty miles east of Pinto Fasin when Lieutenant A.E. Dipple was there in 1853. And from the same region Lieutenant J.C. Ives, in 1857, reported them as a wandering race which traveled great distances. Since they were blocked to the south, east and north by the Yumas, Yavarais and Mchaves respectively, it seems highly probable, aside from archeological

evidence, that they ranged in Pinto Fasin. How long prior to 1800 they may have been doing this cannot be stated.

Serrano

"Looking to the Western part of the Monument in this same dim light before history's dawn, a different group of Indiana. which may be called the ancestral Serrano, is discerned. Again, it cannot be said how long they were in the region. When W.H. (Bill) McHaney arrived at Twentynine Fales Casis in 1879, Serrano Indians were living there. Dr. William Duncan Strong has determined from Indian sources that these were of the Wildcat and Coyote clans, but that their aboriginal social organization had been well broken down. The encestral home of the Serrano was in the San Bernardino Mountains, and their cultural affiliations were with the West rather than with the Chemeheuvis. Thus, the western part of the Monument was probably the hunting ground if not the home, of a group different from those in Pinto Basin. These western people left pictographs, bed-rock morters, pot-sherds, trails, camp-sites, and other evidence of their presence. At Coyote Eoles a recent living site is strongly suggested.

Fiutes

"The Fiute story in the Monument would belong to history were it not for the lack of regional records. In 1888 McHaney saw Fiutes arrive to mix with the Serrane already at the Casis. But it seems highly probable that this was not the first visit of the Fiutes. Lieutenant Ord reported them

in Cajon Pass forty years before. They were noted as horse thieves about the same time and would have had to have waterholes where the stolen horses could be hidden. And the existence of a trail probably even earlier from the Providence Mountains to the Casis strongly suggests a Piute travel route. At any rate, these Indians, displaced by white pressure in the north, were no longer true atorigines having taken on many white customs and equipment. Yet they retained enough of the aboriginal to confuse the Indian evidence left in the Momment. For example, some of the pictographs are almost certainly Piute, as may be the wooden bow, etc. It is these Piutes that were the Indians best known to the early whites coming to the Momment.

"There were about forty Indians at the Casis in McHaney's time; and 50-60 graves in the cemetery nearby. His story of them told in 1933 is this: They were friendly and uninspiring. They lived on mountain sheep, rabbits, mesquite beans and seed. They sold sheep to travelers, and in hunting them had discovered many of the cld mines. Among those whom Bill knew were the following: Old Fiute Jim Foniface, who is turied locally; Captain Jim Pine, who made the first local collection of 'Indian relice'; Jim Waterman, who, exasperated by his father's death, Milled the attending shaman (medicine man), and the shaman's wife, herse and dog and turned his house; Captain Fachece, the best liked of the local Indians, whose son Joe married

Finte Jim's eldest daughter, Annie, and was the last
Indian to leave the Casis; Old Shepeven, who was over
100 years old; and finally, Willy Foy, who shot Indian
Mike Foniface (Jim's brother) to death when Mike refused
to give his sixteen year old daughter ('Not beautiful
but big and fat,' said McHaney) to him in marriage,
and who subsequently was an historic figure because he
was hunted down over the desert by a white posse."

THE COMING OF THE WHITE MAN

(From A Handtock of Joshus Tree National Monument)

"The early story of the Joshua Tree Hational Monument region that can be founded on written words is trief; and the events are of little apparent importance. No record of a traverse of it by the pathfinders has been found. Father Garces (1776), Fremont (1844), and Jedediah Smith (1826) tell of trails 100 miles to the north along the Mchave River. DeAnza (1770s), Facry (1846), Cooke (1847), Whipple (1849) were far to the south in Imperial Valley. Elake (1853) Williamson (1853) tecorded details of Woschella Valley. Not until 1855 do we have a written word concerning our region. Then it is a most exasperating one. The map recording Col. Henry Weshington's Land Office survey of that year shows a road leading east from the Twentynine Falms Ossis. It is labeled: 'Old road to the Frovidence Mountains'. The made this road? Was it a horse trail? Or a route where wheeledvehicles had been? One can only speculate. Perhaps the trappers of the 1820s came this way. Or maybe the horsetraders of the 1830s started their horses towards Santa Fe along this route. Or some offethe boys of the Morman Battalion may have headed home along this road in the 1840s. Frotatly before and certainly after, any of these, the Fiute Indians came down thus from their Nevada ranges. Ferhaps in time more exhaustive research than we have been able to undertake will answer these questions.

"Fren when we pass beyond this era of pure speculation, we can establish at best only a story with highlights and little importance. It is devoid of misadventures like the Donner incident and the Manly party. There were no bonanza camps. There weren't even fictional heroines like Famona. On the whole we are dealing with a group of men who knew how to take care of themselves and did. This is a major accomplishment; but one that makes for happiness and not for history. Yet it seems due to the future that a bookelike this should recall a few names, and set down a few events.

"Cur first written word is brief indeed. On June 29, 1855, Col. Henry Woshington made this entry in his notes: 'From this corner an Indian Wigwam (near a spring of good water, supposed to be permenant) bears N 51°W, and a small cluster of Cabbage Palmettos bears N 27°W. Such is our first view of the Twentynine Palms Casis. In 1866 A.P. Green's surveying party ran the interior lines for Washington's township corners.

"About this same casis, Green recorded this: 'There are some 26 fine, large Falm trees in Sec. 33 from which the Springs take their name "Palm Springs". There are a few Indian huts in Sec. 33, etc.' On the map accompanying these surveys is shown a 'Road to the Falm Springs' (i.e. to the Casis from the mest), as well as the road to the Providence Mountains above mentioned.

"Some of the implications of Green's words may be mentioned.

(1) He speaks of 26, not 20, palm trees. (2) The place had a name in English which indicates that people whom we cannot now discern were familiar with the region. (3) The 1856 name of Palm Springs persisted until well into the 1880s teing so designated on a county map of that period. However, the name Twentynine Falms was in common enough use by 1872 to be used in describing a mining claim by McKenzie and Germain. This McKenzie was witness to the sale of a nearby mine in 1861. In these early days, the now femous Falm Springs in Fiverside County was known as Agua Caliente.

"1860s - 1870s. During these two decades unknown men continued to acquire unrecorded knowldge of the region.

Many of these men were not Americans. At that time there were booming gold camps in the San Fernardino Mountains, along the Colorado River (as at La Faz), and further east in Arizona. Indians of various tribes, Edwicans and Chinese worked in these camps and traversed the roads to them. Euch trucking to the eastern camps ment from the Coachella Valley via Dos Falmas to Ehrenburg (i.e. via the Fradshaw Trail). At times the teamstern returned by more northerly routes. For example, 'Chuck' Farren, of Earrens Well in Yucca Valley, once returned via Clark's Pass and Twentynine Falms Casis where he found no Indians living. At another time he returned as for north as Kelso where he found his future wife and family stranded in the sand dunes. The information gained in such traverse led to the

filing of land and mining claims. A few typical claims are listed below. First it may be well to explain that in this era, and in our account, all 'mines' are gold mines.

"In 1865, M. Frown filed on the 'Jeff Davis' claim in Fattlesnake Canyon, then known as Lone Valley and now confused with
Indian Cove. This is the earliest claim we have located in
the Momment. A guess might be made as to why the owner of
a 'Jeff Davis' mine was in so semote a spot. An old Mexican
type smelter was in this same area in 1870. And J. T. Wilson
had a claim there in 1873.

"In 1970, there existed a Cottonwood Station for truckers at Cottonwood Spring. This unusually good water surply must have been a focal point of the region. Indian trails, mine workings, a long pipe line, an adobe house long gone (in 1952) all confirm a relatively great interest and activity. Unfortunately we have no record whatsoever.

"In 1889, 'The Islia Pale' claim was a relocation on the 'Santo Pomingo de Lopes'. The date of the original location and the Spanish names involved seem significant.

"On Merch 17, 1873, J. Boshay (sic) filed on the Twentynine Falms Casis as a homestead. This French-Canadian (?) name is suggestive both with reference to the early trappers (the father might well have come south with them), and to the existence of Foshay Spring in the Trovidence Mountains.

"1880s - 1890s. In 1879 cur direct knowledge begins with the arrival at the Casis of Villiam H. McHaney from Davis Courty, Missouri. He came with cattle up the Santa Ana Fiver, down Mission Creek, and on to Twentynine Falms Casis. Thereafter, he lived in or near the Monument for 58 years, and died in 1937 at the ranch of Fill Keys who himself first came to the region in the Fall of 1910. McHaney did enough work for others to support his mining ventures. Fart of the time he lived at the Casis, or as he called it 'the Palma'. Part of the time he lived in a most unusual edifice he called a wickiup in upper Musick Valley. Here on a May day in 1933 Mr. Walter E. Ketchum and the present writer took down a rather exhaustive account of Bill's life. This story checks reasonably well with the data acquired from other sources and as corrected furnishes the thread upon which to string some early names and events.

"In the 1880s, Lou Curtis (who first discovered placer mines near Old Dale on Dale Dry Lake, first known as Eurts Dry Lake), C. A. Finkham (who had many claims in the Momment), Alfred G. Tingham (Scuthern Facific Failway Agent at Indio with mining fever), Ed Holland, and others began to interest themselves in claims within the present Momment boundaries. So did Jonatham (Dirtyshirt or Hardrock) Wilson, one of the most vivid and energetic of the old timers. In 1883, he came to live in Wilson's Cove (or Cave or both) which is the present headquarters section of the Joshua Tree National Momment at the Casis. He also gave his name to the Wilson Mountains, now the Fintos, and to Wilson Wash -- the big wash below Stirrup Tark. Eilly Meaves built the Old Adobe at the

Casis in 1888. This served as a store and station for the truckers to the Dale region. It was long a landmark; and was the first house near the Casis. Neaves also planted the fig tree, the large willow and the cottonwoods in Wilson Cove. The willow came out from Covington's Fanch as a teamsters whip. The Serrano Indians planted the trees near the present Twentynine Falms Inm.

"McHaney by direct assertion and Eashington and Green by inference indicate that only resquite end palm trees were pre-white at the Casis. In 1896, Neaves was responsible for another first. Fith John Thurston, he built a rock house near the Cove which later became the first school-house of the region. In 1897, John Lang (whose grave is on the road to Salton View) started, near the rock house, the first salcon. And at Sneak-eye Spring at the west end of Indian Cove a still was operated by John Stull, a lame man.

"In the 1890s, a few of the many claims became small-scale mines. Dutch Frank Diebold filed on the Lost Horse in 1893; Jim EcHaney on the Desert Queen in 1894. Tingman and Echland operated the Homestake and Dewey in the Pinyon Mountains using water from Pinyon Well (originally a spring). This region -- Pinyon Mountains, Pleasant Valley, Pargo Campon, Berdoo Campon -- saw a considerable proportion of the activity of this time and a little later.

"Coincident with this interest in gold was an interest in pasturage. Owners ranged their cattle further and further

into the desert. Possibly because it took so many acros to support one 'cow', such business was early monopolized by a few large cattlemen; namely Cram, who operated from the Hayfields in the Cottonwood Spring area; Talmadge Eros. and Barker and Shay, who operated out of Whitewater Fanch on Highway 99. The cattlemen dug wells, built dams and improved springs. Time has wrecked some of these, as at Ivampah Tank, Liveoak Tank, Squaw Tank, Fattlesnake Tank. Others are good Momment watering places: Barker's Dam, Willow Holes, Stubby Spring, White Tanks.

"1000s - 1010s. Mining was now at its yeak in the Pale Fistrict and to a less r degree in the Farle Mountains and Fleasant Valley. The size of the operations is attested by the census figures for Pale Township, the scene of the greatest activity: 1900, population 60; 1910, 120; 1920,1. There was Sam Joyner who had once been a bar-tender in Pale. March 10, 1903 Maria Fleanor Whelan died at the Casis while enroute to Eaton's Camp where her mother worked. (Faton's Camp was near the 1952 Iron Age Mine south of Dale). Here is the grave seen at the Casis.

*1990s - 1930s. Luring the 1920s many veberans, and their friends, began to homestead in the area just north of the Momment. The story of the activities in the Momment becomes blended and lost in the durrent history of this larger community.

"In the 1930s there was a flurry of mining activity in

the Momment due to the depression of those years. No mine resulted that has continued to operate.

1936. Joshua Tree National Monument was established on August 10 by Presidential Proclamation. It was not until 1940 that funds were available for the establishment of an office and administrative personnel in Twentynine Falms.

CFFATION AND APPLIESTFATION

(From the <u>Handbook of Joshua Tree National Momment</u>)

"Among the homesteaders of the 1920s and their friends and visitors were many who quickly perceived the unusual character of this region. Discussions and plans for the protection of the area resulted. This interest and sgitation produced the ressage of tills by/both houses of the California Legislature creating a State Park. This was never signed by the then Covernor James Ealph, Jr. largely because Mrs. A. Sherman Hoyt intervened with the plea that time to given for the Federal Covernment to act in establishing a national monument.

Wirs. Hoyt was passionately fond of the region; and her vigorous advocacy of its protection was a major factor in the creation of the Homment. She devoted time and thought and money to the project. She kept interest alive and secured the assistance of able and influential people. She inspired the production of descriptive articles (notably one on totanical resources by Dr. P. A. Eunz). She got together albums of pictures and exhibits. With all this she demonstrated to proper authorities the desirability of preserving this remarkably characteristic desert region for the enlighterment and enjoyment of generations.

"As our historical chapter has indicated, the area is of no historical importance. However it was recognized in Washington, as it has been in Twentynine Falms, that as a scientific exhibit it was cutstanding and that aesthetically it offered a wide variety of unique natural features. Time has endorsed this recognition. The influx of population into the desert has emphasized the need for protection. And the scenic attractions have enjoyed a tremendous increase in popularity with each passing year. Fo one could have predicted in 1930 this great increase in popularity and population. It is hoped that this unpredictableness will guide the Public and the Park in the future.

"The end result of all these efforts was an Executive Order by the President dated October 25, 1933 withdrawing from entry approximately 1,136,000 acres of Federal Land in Riverside and San Bernardino counties, California. Then on August 10, 1936 a Presidential Proclamation established a Joshua Tree Rational Momment of 838,258 acres. On September 25, 1950 Congress revised the boundaries of the Momment so that in 1952 it comprised a gross acreage of 557,934."

HOUNDARY CHANGES

Were deleted from the Momment and returned to the pullic domain. These were the areas where it was thought that minerals in commercial quantities might be developed. Subsequent activity in the deleted portions has not disclosed any substantial yield of precious metals. Some idea of the relative value of the minerals taken and potential may be gained from the following report:

POFTIONS OF MINEPAL REPORT

bу

Fdward N. MacKenett, Geological Survey Edward J. Matson, Eurean of Mines

Mineral Production and Mining Activities

*Production records in the San Francisco office of the Foonomics and Statistics Division of the U.S. Eureau of Mines and the 25th and 41st Reports of the California State Mineralogist show that the principal products mined have teen gold and silver. The combined gold and silver amounted to about 16,000 cunces estimated as 23 percent silver and 77 percent gold, total value about \$434,200.00, based on current prices quoted as follows in the *Fingineering and Mining Journal* for Movember 1950: gold \$35.00 per ounce and silver, 80 cents per cunce. In addition one of the gold mines also produced 33,800 pounds of lead valued at \$5,746.00 based on the current price of 17 cents per pound. The mines which produced the above metals

that are within the present boundary of the National Momment ceased production between 1896 and 1938, with the exception of one mine which had a production record of 500 ounces of gold and 66 ounces of silver up to 1942.

Whith one exception, all mines and prospects visited in December, 1950 were idle; none within the revised boundaries is known to have been active since the the start of World War II, and many have not been worked since the late '90's.

*The one exception was Mymine operated by a lone prospector, Dr. F. Smith, in Sec 35 (?), T. 1S., R. 9E., San Bernardino Base Line. At this location an 11 foot shaft has been excavated, and work is being continued in an endeavor to find a hidden gold deposit. However, no wein or other indication of ore is exposed in the workings.

*Examination showed that most of the mining was done from vertical or inclined shafts, and the long period of idleness has left these in tad condition. Eachinery and other useable surface equipment has been rather completely stripped and taken away. Fehalilitation of the mines, which would be costly, would be necessary before new operations could start; even to prospect for new ore in cld mines would be costly.

"Two concentrating plants about 1 mile apart were noted within the present limits of the National Monument. One, which is to use cyanide methods for recovery of gold, was under construction; when completed it will be able to treat about 60 tons of one per day. The operators also expect to

install some flotation units and increase the caracity to about 100 tons per day.

"The other plant's equipped for flotation and is capable of treating 25 tons per day.

"For both plants the ore will come from mines outside the National Monument boundaries.

Ore Feserves

"No definite estimates of reserves can be given because to gain this information would require many months of detailed exeminations. The fact that the mines closed long before restrictions adverse to gold mining (Far Froduction Board Limitation Order L-208, October 8, 1942) indicates strongly that their ore zones were depleted.

General Appraisal

"In general terms, the outlook for mineral production from the area within the Momment is as follows:

"Gold and silver. — The gold-silver ore deposits mainly quartzvveins, commonly within shattered, sheared, and trecciated fault zones that attain 30 feet in width. The quartz veins range from a few inches to 2 or 3 feet in width, mainly strike within 25 degrees of north, and dip steeply. Minor amounts of hematite, limonite, pyrite, chalecpyrite, exidized copper minerals, calcite, and barite are present in some of the veins. It is extremely doubtful if any of the gold-silver deposits within the Memument can be profitably mined.

*Lead. -- No lead minerals were noted during the present survey; however, lead has been mined as an accessory metal in one of the Gold-silver mines.

"Iron. -- Small, iron-rich segregations, mostly of magnetite, are found in the intrusive rocks at a few places, and minor quantities of iron-learing minerals occur in some of the quartz veins, but all of these lack commercial possibilities.

"Cuartz. -- Minor amounts of quartz have been mined at one locality (west of Cottonwood Pass), ostensibly for the manufacture of silica glass.

"Vermiculite. -- A "vermiculite' deposit in the western part of the area appears to consist largely of biolite and, consequently, is not of commercial importance.

Geology of the Area

"The geology of Joshua Tree National Monument is fairly simple, and the rocks of the area form good exposures. With the exception of alluvium, which covers about one-third of the Monument, the area is a crystalline rock domain, practically devoid of rossibilities of petroleum production. In all likelihood the alluviated areas are underlainly crystalline rocks similar to those expected.

"The climate of the region is semi-arid, and the vegitation consists mainly of chararral, several varieties of cactus, yucca, and Joshua Trees. Access to the area is provided mainly by oiled roads and improved dirt roads, the majority of which are maintained by the Fark Service.

"The most alundant and oldest known rock type in the region is an igneous-metamorphic complex that is composed of a few highly metamorphazed sediments which were first intruded by gabbroic or dioritic magma and later by granitic magma. This unit makes up about 40 percent of the exposed rock and is probably pre-Cambrian in age. The Messazoic (?) White Tanks quartz monzonite constitutes about 25 percent of the cutorop area within the Momment.

"Cranite, quartz dicrite, pophyritic monzonite, and gabbro make up about 20 percent of the cutcrops. Meta-velcanics and meta-sediments of the mesozoic (?) McCoy Mountain formation occur in the southern part of the Coxcomb Mountains. Two olinine baselt flows of probable Tertiary Age lie within the Monument, and Fleistacene (?) lake beds underlie part of Pinto Essin. Fire-grained Tertiary dikes, both acidic and basic, have a small distribution. Pematitic and aplitic dikes are associated with most of the preveously mentioned intrusive rocks.

"Possibly thorough prospecting would reveal small amounts of radicactive minerals in some of the regmatites; however, it is highly improbable that commercial quantities of uranium or thorium exist in this area.

"No tactite-bearing roof pendants, such as might be favorable for the occurance of contact-metemorphic scheelite or iron deposits, are known to exist within the Monument.

"Faults are common and probably control the trend of many

of the mountains. Many of the granitic rocks weather to picturesque and unique forms that enhance the scenery.

APHINISTPATION

Headquarters for Joshua Tree National Monument was established in Twentynine Falms on September 19, 1940.

Local support for the establishment of the Nomment was good for the most part, minor complaints were heard regarding the prohibition against the removal of wood from the Momment for fuel.

Another source of complaint on the part of a small group was the rule prohibiting mining and prospecting on Momment lands.

Superintendent Cole accomplished much in reconciling these conflicting interests during his administration as superintendent by pointing out the larger values inherent in the Monument which were of broad national interest and continuing in character.

Superintendent Cole continued as administrative officer until October 30, 1942, when he volunteered for service with the United States Army during World War II. He was replaced by Er. Walter G. Atwell who served until December 8, 1942, when he was replaced by Duane Jacobs who served as Acting Superintendent until December 2, 1943, when he was called to service with the United States Navy.

Mr. Walter E. Metchum succeeded Mr. Jacobs as Acting Superintendent until he was relieved by Frank Givens who served as Superintendent until March 5, 1944. Mr. Givens was replaced by Mr. Cole on May 6, 1944 on the latter's return from military service. Mr. Cole served as superintendent until March 4, 1947, when he was promoted to the

position of Biologist in Region Three; Mr. Frank Givens succeeded Er. Cole and served as Superintendent until he was promoted to the superintendency of Acadia National Park. Er. Givens was succeeded by Samuel King. who presently occupies the position of administrative officer.

First Ranger

The first Fark Ranger appointed was Harold S. Hildreth who served from January 20, 1941 to July 19, 1941, when he resigned.

Next came John W. Stratton who served as Clerk-Ranger from Cotoler 1, 1941 to March 12, 1942, when he was recalled to active duty as a 2nd Lieutenant in the U.S. Army. He returned after the war to serve from May 9, 1946 to November 11, 1948 in the same capacity.

Eastel L. Earenfight succeeded Mr. Stratton on April 1, 1742 and served until August 13, 1942 when he was called to the colors.

Ealter E. Ketchum replaced Mr. Parenfight as Clark-Fanger and served from Cotoler 5, 1942 to August 4, 1945, when the latter returned from military service on August 6, 1945. Eanger Farenfight was subsequently promoted to the position of Supervisory Panger which position he holds today.

The personnel roster in the appendix shows all personnel who have served in various capacities from inception of active administration to date.

Foads and Trails

The development of the road system was initiated early in 1941 with the appointment of Fobert S. Lake as Grader-Operator. Field engineering for the new roads was furnished by Engineers Theodore Goodwin (later superintendent of Leath Valley) and Walter Atwell whose alignment selections for the various routes have proven to be properly located from the standpoint of public use and maintenance. The program thus initiated has propressed with remarkable results through the years, culminating in a road system comprising some 91.43 miles of primary and secondary roads. Of this total approximately 68 miles have been given a dust palliative surface and the balance is gravel. A rather remarkable achievement since to date this has been accomplished with maintenance funds with the exception of \$10,000 alloted to repair flood damage in 1941.

Public Use

Consistent with the read development has been the ever increasing use of the Monument by the public as indicated by the travel figures. Starting with some 27,364 visitors in 1941, substantial increases have been reflected nearly every year, with an all-time record of over 250,000 in 1954.

The list of visitors to the monument would include many famous names as well as just interested men and women; many scientific students as well as laymen. As no records were maintained in the earlier days, it is not possible to list those names that would be meaningful to present readers.

FLORA AND PAUNA

Botany

(From A Handbook of Joshua Tree National Monument)

*Over 550 species of native plants have been identified from Joshua Tree National Monument. Of these, 60 are rarely found in California except in the Momment of the nearby area. No equal area of our western deserts has a richer representation of families, or species, or produce finer individual examples of those relatively rere plants. The flora is typical of an extremely arid country. Two life zones are represented. The Lower Sonoran, ranging from 0 to 3,000 feet altitude contains such plants as mesquite, encelia, and ghost flowers. In the Upper Sonoran Zone, 3,000 to 5,000 feet, are found pinon pines, blackbrush, and Hohave Besert Star. Further, the Monument is a transition area between the Colorado Desert and the Mohave Desert so that plants characteristic of each desert are present. For example: ocotillo, border palo verde, and frost-mat belong to the Colorado Desert, while Joshua Tree, Cheesebush and desert mariposa are typical of the Mohave. 1/

As previously mentioned, the area is one of interest, especially to such scientists as Dr. Fhilip A. Munz and Dr. Fomund Jaeger. These men and others did much to collect, identify, and

classify the plants of Joshua Tree National Monument. Mrs. Sara M. Schenck collected much data and made one of the earliest and most extensive collections of the flora of the region.

It was Superintendent James Cole who started the first herbarium for the headquarters of Joshua Tree National Momment. This excellent collection is still being used by Momment personnel.

Ranger Charles F. Adams Jr. first compiled a master check list of flowering plants of Joshua Tree National Monument. *

Wildlife

(AFcm A Handbook of Joshua Tree National Momment)

*W. E. Johnson (subsequently famous as 'Pussyfoot Johnson')
was Indian Agent for a region which included part of Twentynine
Palms Casis. About 1909 driving across Fried Liver Tash in
Finto Easin with an Indian, they jumped a jack rabbit. Then
Johnson reached for his gun, the Indian put out a restraining
hand and asked, 'Thy?'. In relating this, Johnson added,
'I laid aside my rifle then and many times later was ashamed
of such a silly impulse.'

"The Ecomment has more animals to 'not-kill' but to enjoy than a newcomer might suspect. Early white explorers, remembering their greener lands, reported the desert as the home of only rattlesnakes and noxious reptiles. This reputation has been as enduring as it is false. The per square mile population of animals in the desert is indeed less than in areas of greater rainfall; but there is a definite population both as regards species and

^{*} This project is in final stage of completion.

individuals.

"How can animals live in a land of little food and no apparent water? Fart of the explanation lies in the fact that some animals eat others; and that nearly all plants are food for something. Given suitable rains, the plant-eating animals increase; and the following year the carnivorous animals prosper. Thus the key to the animal population is the condition of the flora. Of this flora only a few species are avoided by animals. Some of the most forbidding plants are eaten.

For example, certain pack-rats depend on cholla cacti; rabbits eat creosote; deer browse on yucca.

"However, water is the determining factor. There is generally enough food present to support a larger population than the supply of available water permits. The ability of desert animals to get along on the water available is dependent on several factors not readily perceived. (1) More water is actually present than is apparent. Aside from known springs there are hidden tanks and remote seeps. Also there are pools on the tops of rocks that contain water for a month or so after rains. And, at places in stream teds, underground water exists. Holes, made by coyotes in digging for such water, are frequently observed. (2) Desert animals require less water. Their habits of life conserve their bodily water; i.e. they spend much of their time underground, or out of the sun, and are most active in the coodest hours—not unlike some experienced human dwellers of the desert. (3) Certain animals get water

from eating succulent plants. (4) Other animals obtain needed water through metabolic processes; i.e. through chemical reactions in digestion. Kangarco rats can live indefinitely with no water and only dry seed for food.

"All mammals of the Komument are shy and wild and natural. Therefore, quietness, patience, perseverance and some luck, are required in meeting them. Femember, the right place and the right time depend upon the habits of the animals and not those of the visitor. 1/

ð.

PHYSICAL DATE CYCMENTS

Campground facilities were gradually expended over the years until a total of seven were established at suitable places in the Momment. These are all equipped with concrete tables and fireplaces. Fit type latrines with open tops were installed throughout the various campgrounds. One area at Sheep Pass has been designated as a "group camp" to accommodate the large organizations.

Frobably the greatest single problem confronting the Service through the years has been the matter of acquisition of private lands within the exterior boundaries of the Momment. Buch has been accomplished in acquiring private lands until at this writing some 80,000 acres remain in private ownership, as compared to an original total of approximately 265,000 acres. This has been achieved through the combined efforts of the field personnel and the Regional and Tashington Offices.

A substantial amount of tax-deeded lands in Pinto Essin will probably be acquired through condemnation proceedings and reimbursement to the State of California in 1955. It is hoped however that Congress will one day appropriate sufficient funds so that the remaining private lands may be acquired by purchase.

In 1950 some 289,000 acres of lands were deleted from the Monument under the Fhilips Fill H.F. 4116 and returned to the public domain. These deleted lands were alleged to contain large deposites of valuable minerals. Subsequent activities in the deleted lands do not substantiate this contention, as only two claims have been filed up to 1954.

Another important land transaction transpired in 1950 when the National Park Service acquired 58 acres of land including the Twentynine Falms Casis by donation. This valuable area played an important part in the pre-history of this region and was likewise important during historic times as a source of mater for early explorers and settlers. Farly in 1954 a modern administration building was erected at the eastern extremity of the Casis which is a credit to the Service as its design has been heralded with acclaim by everyone. The largest room in the building was designated for display of natural history materials and as an information center for Romment visitors. The building was formally dedicated on April 3, 1954, with a crowd of over 500 people in attendance. Dr. Thilip A. Munz, emiment botanist and Director of the Santa Ana Botanic Garden at Claremont, gave the dedication address. Many civic leaders and scientists were also in attendance and each contributed appropriate remarks. It also marked the occasion when John Hilton, famous painter of desert scenes, contributed an inspiring painting depicting a scene in Lost Horse Valley to the National Fark Service.

INTERPETATIVE SERVICES

During the early period of the Joshua Tree National Monument, all interpretive services were performed by the Super-intendent. The program consisted mainly of talks to the tourists at the Monument office. When the staff became larger and a Fark Ranger was added, talks were given at the camp sites.

With the addition of the Casis to the Monument, a series of Wature Trails was born. Now, in addition to the trail at the Casis, the Monument boasts five such trails: Cap Rock, the Cholla Garden, Indian Cave. Salton View and Indian Cove.

The outstanding animal of Joshua Tree National Momment is the lesert Pighorn. During the year many inquiries are received about this animal and many visitors are afforded the opportunity of seeing these marmals in their natural surroundings. The visitor is directed to Stubby Spring over a one and one quarter mile trail from the Juniper Flat Road and many times are successful in observing sheep and in getting good pictures.

Exter has also been made available at Cottonwood Spring for the tirds and animals and the visitors and campers enjoy the many birds resident to that area, and also abserve gray and kit foxes, badger, and Desert Fighern. Fater has been developed at Elack Fock Spring and the occasional visitor there sees Desert Fighern, deer and quail in that area.

In addition to this good trails exist over which visitors may hike to desert eases such as Fourty-nine Falms and Lost Falms Canyon.

MISCFLIANDOUS

Fires

The greatest fire loss in the history of the Monument was experienced June 23, 1948 when flames ravaged the 49 Palms Casis.

Although the fire encompassed little more than an acre, no greater damage could have resuted from a fire several times that size in any other portion of the Monument. Forty-four of the large Washingtonia palms were entirely consumed, except for their trunks, six were partially burned and only three were untouched.

This fire was fought by National Park Service, State Division of Forestry and volunteer personnel. Two teen-age boys picked up near the fire admitted their guilt.

Attention was given at an early date to the protection of the vegetative occur from fire; since the botanical display was considered to have no equal in the high desert terrain of Southern California. In fact the whole area is a truly magnificent plant sanctuary.

Eeginning in 1942 Fire Control Aids were assigned to duty during the hazardous part of the summer season. Many small fires have occured, but none of major proportions except the one mentioned above and another in July of 1942. Approximately 1(5 acres were burned over at the western extremity of Lost Horse Valley on Couthern Facific Failroad lands. This fire was man-caused and unfortunately was responsible for the death of Foad Foreman Fete Mahrt, who succumbed to acute pulmonary edems while suppressing it.

Traffic Teaths

The first person killed in the Momment by traffic accident after active administration by the National Park Service was a young girl. Carol Anna Privatt, age nine, was killed on November 2, 1952 when she fell out of her father's pick-up truck while traversing the Finto Fasin Road.

On June 21, 1954, Sgt. John A. Wing, United States Marine Corps, was killed when the car in which he was a passenger failed to negotiate a turn near Smeakeye Spring and over-turned.

Air Crash

On July 4, 1944, eight men were killed in a mid-air collision of two Liberator bumbers. Seven men bailed out of one of the crippled planes, the pilot and co-pilot having landed it at the Falm Springs Airbase. The pilot of the other plane was the only survivor of that ship.

Suicides

On October 27, 1954, two sisters, Edna and Clara Walsh committed suicide near the south boundary by use of carbon-monoxide gas from their automobile.

Publications

The August 1954 issue of Le Vie del Mondo, printed in Milan, Italy, contained an article on Joshua Tree National Momment written by W. Egbert Schenck and Samuel A. King. This article was widely circulated in Furore.

SCHE FRIENDS THO HAVE PARTICULARLY HELITED THE HOMERENT

Frenk Eagley Elizabeth F. C. Campbell D.A.R., Twentynine Palms Chapter Arthur E. Demarcy Desert Trail Newspaper Newton E. Drury Ton Hopkins Isaac Walton League Dr. Edmund Jaeger Harry James Falter E. Ketcham Dr. N. Mellor Joseph Monyer Dr. Phillip A. Muns Dr. Alden H. Miller National Audulon Society F. Egbert Schenck Sera H. Schenck Congressman Harry Sheppard Sierra Club C. Edward Graves Dr. Ian Campbell

Dr. E. W. Gifford

Sherman Clark

Twentynine Palms, California Tuscon, Arisona Trentynine Palms, California Washington, D.C. Twentynine Palms, California Secremento, California Twentynine Palms, California

Riverside, California Banning, California Twentynino Palms, California Corona, California San Bermardino, California Claremont, California Ferkeley, California

Twentynine Falms, California Twentynine Falms, California Mashington, D. C. San Francisco, California Carrel, California California Institute of Technology, Pasadena, California Museum of Anthropology, University of California, Borkeley, California Twentynine Palms, California

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- ** Mr. and Mrs. F. Johansing
 Kalter E. Ketcham
 Dr. N. Mellor
 Joseph Komyer
 Dr. Fhilip A. Munz
 Dr. Alden E. Miller
 Kational Auduben Society
 E. Egbert Schenck
 Sara M. Schenck
 Congressman Harry Sheppard
 Sierra Club

Twentynine Falms, Calif. Tueson, Arizona
Twentynine Palms, Calif. Eashington, D.C.
Twentynine Falms, Calif. Sacramento, California
Los Angeles, Calif.
Twentynine Falms, Calif.
Pasadena, California

Riverside, California Eanning, California Pasadena, California Twentynine Palms, Calif. Corone, California San Bernardino, Calif. Cleremort, Calif. Ferkely, Calif.

Twentynine Palms, Calif. Twentynine Falms, Calif. Washington, D.C. San Francisco, Calif.

[•] Deceased

^{**} Donors of Casis Site, where Headquarters was established.

APPENDIX A
PERSONNEL OF JOSHUA TREE NATIONAL MONUMENT

Superintendents	From	То	E.O.D.	C.O.E.	
James E. Cols	Jr. Park Nat. Yosemite	Superintend. Joshua Tree	Sept. 17, 1940	Nov. 9, 1942	
Walter G. Attwell	Assoc. Fngr. Region Engr.	Act. Supt. Joshua Tres	Nov. 10, 1942	Dec. 8, 1942	
Duans D. Jacobs	Dist. Ranger Yosemite	Act. Supt. Joshua Tree	Dec. 9, 1942	Mar. 3, 1943	
# П П .	Act. Supt. Joshua Tree	Act. Custodia Joshua Tree	an Mar. 4, 1943	Dec. 2, 1943	
Walter E. Ketcham	Clerk Ranger Joshua Tree	Act. Cust.	Dec. 2, 1943	Feb. 1, 1944	
Frank R. Givens	Dist. Ranger Yosemite	Act. Cust.	Feb. 2, 1944	Hay 5, 1944	
James E. Cole	U. S. Kemy	Custodian	May 6, 1944	Mar. 3, 1947	
Frank R. Givens	Cust. Pinnacle	s Custodian	Mar. 4, 1947	Nov. 22, 1948	
90 18 15	Custodian	Superintend.	Nov. 23, 1948	Apr. 11, 1953	
Semuel A. King	Supt. Saguare	Supt. JTNM	April 12, 1953	3 To Date	
Rangers		•			
Harold S. Hildreth	Yosemite	Park Ranger	Jan. 20, 1941	July 19, 1941	
John W. Stratton	Lassen	Clerk-Ranger	oct. 1, 1941	Mar. 12, 1942	
Hesmel L. Earenfight	29 Palms	Clerk-Ranger	Apr. 1, 1942	Aug. 13, 1942	
Walter E. Ketcham	29 Falms	Clerk-Ranger	Oct. 5, 1942	Aug. 4, 1945	
* Hesmel L. Earenfight * John W. Stratton	U.S. Air Force U.S. Army	Clerk-Ranger Clerk*Ranger	r Aug. 6, 1945 r May 9, 1946	To Date Nov. 11, 1948	
* Note: Converted to Park Ranger Sept. 8, 1946					
George F. Swan	Lessen	Fakk Ranger	Dec. 27, 1948	May 15, 1950	
Charles F. Adams, Jr	•	Seasonal	Dec. 1, 1949	To Date	

Rangers (Cont.)				
Herbert D. Cornell	Seasonal Park	Ranger	Sept. 20, 195	3 To Dete
Technical Staff	•		120 10, 275) 10 Dave
John S. Adems	Yósemite	Landscape Architect	July 1, 1958	To Date
Fire Control Aids	•			
Charles F. Adams Jr.			April 15,1950	To Date
Elmer R. Camp			July 22, 1942	To Date
Joseph W. Tuberdyck			Sept. 11,1951	
Clerk-Typist & Recept	ionist		• •	
Maisie Van Tassell	Clerk Typist		July 9, 1951	Sept. 17,1954
Wildred I. Miller	Clerk Typist		Nov. 8, 1954	To Date
Ronald D. Miller	Information Re	ceptionist	April 10, 1954	To Date
Maintenance Crew				
Alva D. Connor	Laborer		Jan. 10, 1941	Dec. 10, 1941
# # #		Truck Driver	Mar. 1, 1949	Aug. 20, 1949
н н н	Oper	ator General	Aug. 21, 1949	Mar. 9, 1952
H H	Mixed	Gang Foreman	Mar. 10, 1952	To Date
Robert S. Leke	Yosemite	Equip. Op	Mar. 1, 1941	June 30, 1941
H H H		н н	Oct. 24, 1941	Jan. 15, 1943
H H H		n w	Dec. 12, 1945	Dec. 11, 1946
n n	Mixed	Gang Foreman	Feb. 23, 1947	Apr. 15, 1953
John F. Bianco		Laborer	June 11, 1951	July 7, 1951
п н п	Tr	ick Driver	July 7, 1951	July 3, 1954
п п п	Oper	ator General	July 4, 1954	To Date
Harrison Y. Eoling		Laborer		July 31, 1942

 Harrison Y. Boling
 Truck Driver
 Aug. 1, 1942
 Oct. 5, 1946

 **
 Laborer Leadway
 Oct. 6, 1946
 Apr. 30, 1953

 Fhil D. Smith
 Yellowstone
 Laborer
 Feb. 17, 1941
 To Date

 Paul E. Kats
 Laborer
 March 14, 1954
 To Date

APPENDIX E FROCIAMATION BY THE PRESIDENT OF THE UNITED STATES ESTABLISHING JOSHUA TREE NATIONAL MONUMENT Signed by President Franklin D. Poosevelt. August 10, 1936

WHEFFAS certain public lands in the State of California contain historic and prehistoric structures, and have situated thereon various objects of historic and scientific interest; and VHEFEAS it appears that it would be in the public interest to reserve such lands as a national monument, to be known as the

Joshua Tree National Momment:

NOW, THEREFOFF, I, FRANKLIN D. ECOSEVEIT, President of the United States of America, under and by virtue of the authority vested in me by section 2 of the act of June 8, 1906. ch. 30c0, 34 Stat. 225 (U.S.C., title 16, sec. 431), do proclaim that, subject to existing rights and prior withdrawals, the following-desciribed lands in California are hereby reserved from all forms of appropriation under the public-land laws and set apart as the Joshua Tree National Momment.

SAN BERNAPDINO MERIDIAN

T. 18., R. 5E., secs. 19 to 36, inclusive.

T. 25., R. E., secs. 1 to 6, 11 to 13, inclusive, and those parts of secs. 7, 8, 9, 10, 14, 15 and 24 lying north of the north boundary of

the Colcrado River Aqueduct right-of-way.

T. 15., R. 6E., secs. 19 to 36, inclusive.

T. 25., R. 6E., secs. 1 to 18, 21 to 26, inclusive, and those parts of secs. 19, 20, 27, 28, 34, 35, and 36 lying north of aqueduct right-of-way.

T. 3S., R. 6F., that part of sec. 1 lying north of aqueduct right-of-way. Ts. 1 and 2S., R. 7E. (Partly unserveyed)

T. 35, F. 7E., secs. 1 to 6, 8 to 16, 23 to 24, inclusive, and those parts of secs. 7, 17, 18, 21, 22, 25 and 26 lying north of aqueduct right-or way.

Ts. 1 and 25., R. SE. (Partly unsurveyed)

F. 3S., R. EE., secs. 1 to 30, 33 to 36, inclusive, and those parts of secs. 31 and 32 lying north of aqueduct right-of-way.

T. 1S., P. 9E,, secs. 5 to 9 and 16 to 36 inclusive.

Ts. 2 and 3S., F. YE (Fartly unsurveyed)
Ts. 1 to 3S., F. 10E (Partly unsurveyed)

F. 53., R. 10 E., secs. 1 to 30, inclusive, and those parts of secs.

31 to 36 lying north of aqueduct right-of-way.

Ts. 1 to 4S., F. 11E (Partly unsurveyed)

T. 5S., P. 11E., secs. 1 to 30, inclusive, and those parts of secs. 31 to 36 lying north of aqueduct right-of-way.

T. 6S., R. 11E., those parts of secs. 1 to 6 lying north of aqueduct right- of-way.

Ts. 1 to 5S., R. 12E. (Partly unsurveyed)

T. 6S., P. 12 E., those parts of secs. 1 to 6 lying north of

aqueduct right-of-way.
Ts. 1 to 45., R. 13E. (Partly unsurveyed)

T. 5S., R. 13E., secs. 1 to 24, inclusive, and those parts of secs. 28, 29, 30, and 31 lying north of aqueduct right-of-way. (partly unsurveyed)

Ts. 1 to 3S., P. 14E (Partly unsurveyed)

T. 4S., P. 14F., secs. 1 to 11, 14, to 23, 27 to 34, inclusive, and those parts of secs. 12, 13, 24, 25, 26

and 35 lying west of aqueduct right-of-way (unsurveyed)

Ts. 1 and 2S., F. 15 E. (Partly unsurveyed)
T. 3S., F. 15E., secs. 1 to 19, inclusive, and sec. 24; those parts of secs. 20, 21, 22, 23, 25, 26, 29, 30, and 31 lying north of aqueduct right-of-way (partly unsurveyed).

T. 4S., R. 15E., those parts of secs. 6 and 7 lying west of aqueduct right-of-way:

containing approximately 825,340 acres.

Warning is hereby expressly given to all unauthorized persons not to appropriate, injure, destroy, or remove any feature of this monument and not to locate or settle upon any of the lands thereof.

The Director of the National Fark Service, under the direction of the Secretary of the Interior, shall have the supervision management, and control of the monument as provided in the act of Congress entitled "An Act To Establish a National Fark Service, and for other purposes." approved August 25, 1916 (ch. 408, 39 Stat. 535, U.S.C., title 16, sees. 1 and 2), and acts upplemantary thereto or amendatory thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and caused

the seal of the United States to be affixed.

PONE at the City of Washington this 10th day of August, in the year of our Lord nineteen hundred and thirty-six and of the Independence of the United States of America the one hundred and sixty-first.

/s/ Franklin D. Pocsevelt

By the President /s/ William Phillips Acting Secretary of State. AFFENDIX C
ADDRESS AT DEDICATION CEREMONY OF
HEADQUAFTERS EUILDING OF JOSEUA TEFZ NATIONAL MONUMENT,
TWEMTYNINE FAIMS, CALIFORNIA
AFFIL 3, 1954

by

PHIPIP A. MUNZ RANCHO SANTA ANA EOTANIC GARDEN CLAFFMONT, CALIF.

Superintendent King, distinguished guests, ledies and gentlemen, I believe you can understand something of my interest in the developments that we have come today to acknowledge and dedicate then I tell you that my first visit to this spot was in April, 1921. 33 years ago this month. At that time I was teaching at Pomona College and we had as a visitor and lecturer from Harvard University for one month a distinguished zoologist, Dr. George Parker. During srping vacation my colleague, Dr. F. A. Hilton and I wider the guidance of Mr. Edmund Jaeger of Fiverside and Mr. M. French Gilman. of Fanning, nbroughtring, Parker to see the desert. Mr. Jaeger as most of you know, is an old hand on the desert and French Gilman, who was born at Eanning, was of course another. His brother Arthur Giltan of Basming, Raymond B. Cowles then a student at Tomona and now Professor of Herpetology at U.S.L.A., and a high school senior from Fiverside, David D. Keck, now head curator at New York Estanical Garden, were also in the Party. It was a dry season and very little was in flower, but Mr. Jaeger took us to a number of out of the way places, such as Firyon Wells and through great rock formations which he called "Garden of the Cods" and which are now in the present Momment. There we saw evidences of early Indian occupation. Finally he brought us to this spot. So far as I can remember I saw only one building here and that was a tumble down adobe without inhabitants of human nature, at least. We were delighted with Twentynine Palms. Here in this very dry year we found an casis with all that the name implies. It was a green spot with a small sheet of water. It was teeming with birds and Mr. Gilman made a bird census. It was on this trip to that we apent some days in the area and saw no other human beings save one or two men at some of the semidefunct mining claims. When we got back to Claremont, Dr. Farker said, "You could not have taken me to a more interesting region; I felt all the while as though we were on another continent."

I could not help thinking this morning as we drove over from the coastal side to the desert, how rapidly change has come to this whole region. Twentynine Falms is not now on another continent. In fact, it looked to me as though it might not be many years until the road from Korongo Valley east will have to be zoned, so thick are the settlements becoming. I was impressed again by the importance of a region like the Joshua Tree National Homment being set aside not only for the enjoyment of those who want to visit the desert, but to preserve in as nearly its original form as possible the life of that desert.

Those of us who used to think of the desert as a place that belonged to no one, but to all of us, and who used to came in one canyon then another, roading about freely without trespassing on private property, find that we can no longer do so. Every desirable spot, every spot with a seep or trickle, is now filed on and has signs "Keep Out". Now, I am one of these individuals who like not only to camp on the desert for fun, but who like to study its life, particularly its plants. Moreover, I am one of those naive persons who want to preserve for future generations of this country representative areas and indigenous life in all parts of the country. To me, therefore, who have lived long enough to see ushered in two or three periods with different approaches to the study of living organisms, it is important that such areas be kept in as nearly their primitive state as possible. Each such period of study has new techniques and teaches us new facts about living creatures, their methods of adaptation to their environment, their possible origins, their relationships, their uses.

You will say this is alright in theory, but reople have to make a living. Areas even on the desert have to be made use of. Of course, they do. Put what will be most useful to mankind as a whole, If we exploit all of an area, do we not risk extinction of species and loss of conditions that the future generations might have found valuable? We must remember that the Mojave Desert is fast changing. Grazing has brought in many European weeds which have followed the white man wherever he has gone, even to the desert. See how the Russian Thistle, tumble—weed-mustard and other weeds are now crowding out many of our own native more colorful annuals which may not be so sping or of so disagreeable flavor, hence get eaten by cattle, leaving the field open for these European invaders. Large desert plots set aside with state of federal protection and with grazing restricted or forbidden, give the original vegetation the opportunity to maintain itself against such imroads. I know of no other way.

Feeling as I do, you can see why it is a great pleasure to me today to come before you and may honor to those responsible for the setting aside of this area and for its development. So far as I am aware we are obligated largely to the efforts of one woman, Minerva Hamilton Hoyt. Mrs. Albert Sherman Hoyt came to California in the last part of the last Century. She and her family settled in South Passadena. She had lost her son, and overcome with grief and despair she turned to nature for confort, driving about by horse and carriage or riding horseback. She came to love the desert, its bigness, its color, its grandeur. Here she found healing and reace. She inspired others with the love for it and as she saw more and more exploitation take place, she yearned for the protection of some of the choicest spots. Through the National Fark Service she secured the services of Mr. Dan R. Hull, an experienced California landscape architect, who drove over large parts of the desert with her. Together they selected tracts which they felt had unusual features of one sort and another and would serve as an outstanding example of the California deserts. Meanwhile interest had grown until the California legislature passed bills creating a state park here. Mrs. Hoyt hoped for national rather

than state protection and persuaded Governor James Palph, Jr. to withhold his signature until she could explore the possibility at Mashington. She made personal visits to President Roosevelt and Mr. Harold Ickes, at that time Secretary of the Interior. The President promised her that he would withdraw the region from land entry until proper investegation and recommendation could be made. On October 25, 1933, he issued an Executive Order withdrawing about 1, 136,000 acres in Riverside and San Bernardino counties.

Mrs. Hoyt held, and I believe rightly so, that a desert park must be large, with great panoramas, if it is to represent the desert fairly and protect the desert life adequately. With my assistance hand made books of photographs in color were gotten together to show characteristic desert scenes and some of the outstanding species of plants from the region. These were presented to Mr. Ickes and the President to help give them an idea of why we felt this area worth while. Articles were written describing the plant and animal life. The National Park Service sent out Mr. Roger Toll to investigate the area and make recommendation. He came, as I remember it, in the late fall when it was very dry and cold. Mrs. Hoyt and I spent several days taking him about and trying to show him how wonderful it all was. I remember we rode in an open touring car, Mr. Toll and I on the back seat where we almost froze in the cold row wind. He was a good sport. however, and chided Ers. Hoyt about her "rark" (this word being in quotation marks). Mr. Toll was from a Denver family and his experience I believe had been largely in the Focky Mountain and similar Farks. Ers. Hoyt told him he could not see any teauty in anything unless it had waterfalls and lakes. Well, there was much good natured bantering, but we felt after his departure that he wondered what kind of crazy fools we were to want a desert park.

We tried to emphasize in our communications to Washington that only a hundred miles from Twentynine Falms there was an immense and a rapidly growing population, that many of thee people felt the lure of the desert and enjoyed travelling to it for longer and for shorter periods of time. Such a desert park would mean much to great members. Beath Valley was already a Mational Momment and , while farther away, was attracting thousands of visitors each winter. As I remember it, Mr. Toll was killed not many months after his visit here in an automobile accident and I have of course no way of knowing whether he was in a large or a small way responsible for the dedication of this area, but I do know that he was a gentleman and a man of high ideal for the Park Service. At any rate, on August 10, 1936. a presidential proclemation established a Joshua Tree National Momment of 838,258 acres. Because of the Los Angeles Aqueduct cutting across the southern part of the region which they had envisioned for their park, those features were emitted which lay to the south of the Aqueduct, including such places as ainted Camyon, Hidden Syrings and the north short of Salton Sea. The Fark Service could

see too many administrative difficulties in having the Momment in two separate tracts.

However, 800,000 acres are not to be sneezed at as being inconsequential. There are a variety of conditions and regions altitudinally and topographically. While not as diversified as the larger region originally asked for, this smaller acreage runs through two or three quite distict life zones and begins with areas characterised by Crecsote Fush and its associates, runs through what I call Joshua Tree Roodland and culminates in its higher summits in Pinyon-Juniper Woodland. It has about as fine views as the desert offers. over wast expanses of the Mohave toward the north, toward the Cockscomb and neighboring ranges in the east, toward the Coachella Valley, Salton Sea and Imperial Valley to say nothing of the Santa Rosa Mrs. toward the south, and of the San Jacinto and San Eermandino Ranges toward the west. t has most interesting and fascinating rock formations of great extent. In picturesqueness it offers much. In life of the past and of the present it has much of interest. Mr. and Mrs. Campbell in their years at Twentynine Palms found a wealth of materials and artifacts left by the Indians who inhabited the region, some of these from the Momment, but all from near at hand. This collection is now at the Southwest Museum in Los Angeles.

Plant and animal life of the Momment are quite rich for the desert. During the past few thousand years the whole Southwest has been getting dryer and warmer and many species of living organisms have had to retreat northward or up the mountain slores to maintain themselves. Many have perished completely, as did the giant sloth which lived on Joshua Tree leaves and other tidbits. Others are left as relicts and are on their way out; their survival is not helped by droughts such as we have had the past few years. So, in the Monument we find plants like the fragrant Lippia Frightii and the yellow-flowered composite Pailostrophe Cooperi, both of which are represented here by a few individuals, occur again around the Providence and Clarke Mountains, and then in greater profusion in the states to our east. They are undoubtedly such relicts. On the other had, we have relicts of a more western and coastal vegetation now found in the San Bernardino and other ranges to our west, but which at one time occurred here, for example the succulent, <u>Pudleya</u> tymbsa, the little Potentilla saxosa, and others. The largest oak tree in the Monument is undoubtedly some centuries old. I have grown seed from it and the seedlings show great variability, some promising to be shruls like the common scrub oak of the region and others shooting up as if to be trees. Some have sping-toothed small leaves; others larger more deeply lobed leaves like those of the mountains Black Caks now within many miles of this tree. Were there some centuries back?

Eut in addition to such relict species the Momment offers others that are almost confined to its area, endemics so to speak.

Take for example the shrub in the Cottonwood Springs area, Tetracocous

Alversonii of the rocky areas at ca. 4000 ft.

Animals are not usually so local in distribution as plants. In general, the Monument has a good representation of desert animals from the Eighorn Sheep and other mammals to birds and reptiles. To me this last named group is particularly characteristic of the desert, largely I suppose because unless the day is really hot, they are in greater prominence than other animals. I refer especially to the lizards, almost always to be found on sunny rocks in codler days of in shade of bushes on warmer days. It is good to know that here is an area where these "denizens of the desert" to use Mr. Jaeger's phrase, are protected and can be expected to occur.

I was personally greatly saddened by the movement a few years back among local citizenry to chop off a large piece of the Monument as being of undoubtful mining value. I refer to the revision by Congress of the Monument's boundaries so as to reduce its area to 557,934 acres. From what I have been able to learn the mining output since this reduction has not justified this action. I hope that at some time this acreage may be in large part restored to the Monument.

The National Park Service has of course had its problems in connection with the Monument, some of which have been with it from the beginning and others which are growing with time. I refer in the first place to the unfortunate situation that prevailed of much of the land being privately owned at the time the Monument was created. I may say here that the Fark Service wanted Mrs. Hoyt to give money or to raise some among her friends for purchase of some of this land. Unfortunately, the Monument was created at a time when private funds were feeling the effects of the great depression and she was not able to do this. It should be stated, however, that Mrs. Hoyt spent a good deal of her own money as well as much time in her efforts to enlist interest in the actual initial creation of the Monument. I understand that much progress has been made in recent years in acquiring privately owned lands and the Park Service is greatly to be commended for its success. Another sort of problem that must be accute in any desert park used by a large number of people is the slowness with which vegetation in a dry area can reuperate from mistreatment. I refer to such things as the gradual disappearance piece by piece of pinyon and juniper trees around the camp grounds in the Monument. Each camper needs a bit of wood and hacks off a branch, not realizing that he I do not envy the Park Service these chops away a half century's growth. problems; they undoubtedly have many others. I do feel that the fact that the Joshua Tree National Momment was visited by almost 200,000 persons in 1953 is in itself a complete answer to any doubts ever held or expressed as to the desirability of setting aside this wast tract and opening it up, with suitable precaution, for the enjoyment of the public.

Today we gather to take recognition of a new development in the Joshua Tree Mational Monument. This development was made possible in the first place by the recent generous gift of Mr. and Mrs. Harry E. Johansing, by Mrs. Helen F. Faries, and by Mr. & Mrs. James Chadwick of the land on which we stand, these 60 acres at the east end of the Casis of Twentynine Palms. Although funds for the establishment of an administrative staff became available in 1940, the National Perk Service has not owned its own headquarters until now. construction of the attractive and most fitting building which we have come today to dedicate, a new era begins for the Soshua Tree National As you go about in this charming place I am sure you all agree with me that it is most satisfactorily suited to effective administration of the Monument. It will enable visitors to secure needed informatiom. Here can be developed a small museum exhibiting the most interesting and characteristic features of the Monument. Here can be established ma small botanic garden naming the more conspicuous and characteristic plants to be found and to be expected in the Momment. Here can be exhibited outstanding flowers in bloom in the Monument as a Here at a place so accessible to the public can be made available in a charming and effective setting those things the visitor wants to see and know. So, I say, this headquarters building marks the beginning of a new era for Joshua Tree National Monument. I congratulate, you, Superintendent King and your staff, on this notable step forward. It will make possible a new attitude on the part of the public and of the Government toward the Monument. hope too it means the beginning of other more commodious structures which may in time house permanently the various worthwhile collections. historical and ethnological, paleontological and biological as well as geological, that have been assembled or may be assembled for this region. It is a great thing to see this new development and to share in its dedication. I honor those who made it possible as well as those who have brought the Joshua Tree National Momment into being and to its present effectiveness.

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- 1. Schenck and Given, A Hardbook of Joshua Tree Rational Nomment
- 2. Rogers, John, The Geology of the Joshue Tree National Monument
- 3. Notes from the rotebook of Superintendent James Cole
- 4. Mineral Report by Edward H. MacKenett and Edward J. Matson