



Lassen Volcanic National Park

Docket Number: 5

SULPHUR WORKS ENTRANCE AREA PIPE INTAKE

Preliminary Docket Information

January 12, 2015

MEMO TO FILE

In 2014, the State of California suffered the third consecutive year of extreme drought. In January 2014, the Governor declared a drought emergency. The State Water Resources Control Board issued projections for the summer of 2014 as to likely calls for curtailment in the state's major watersheds.

In response, WRB contacted all of the NPS units in California regarding the drought and offered WRB's services to assist in preparations for potential calls for curtailment. A few parks responded, and WRB prepared drought assessments for SEKI, YOSE, and LAVO, and also worked with PINN and WHIS. The drought assessments included an inventory of the park's rights and uses, an assessment of the relative seniority of the parks rights, and an estimation of the likelihood of the park's rights being called for curtailment. In spring 2014, WRB sent to SEKI, YOSE, and LAVO the drought assessments with recommendations to ensure that park water needs were protected.

In summer 2014, the Board did issue calls for curtailment of post-1914 rights in order to protect the diversions of senior rights (pre-1914 and riparian). In addition, the State legislature passed laws regarding the management of groundwater—the first legislation regarding groundwater in the State's history. As a result of these developments, WRB updated the drought assessment and provided a final hardcopy to SEKI, LAVO, and YOSE, reflecting these developments.

Given the size of the drought assessment, one hard copy was put into Docket #1 of each park. In the remaining dockets, this Memo to File has been placed, referring readers to the drought assessment located in Docket #1.

Eric Lord
Water Rights Specialist
January 2015

02 STATE

Lassen Volcanic National Park

SULPHUR WORKS ENTRANCE AREA PIPE INTAKE

State Water Rights Documentation

[For full information concerning the filling out of this form refer to
Article 4 of Rules and Regulations Pertaining to Appropriation of Water]

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
STATE ENGINEER

Application No. _____ Filed _____ at _____ M.
(Applicant must not fill in the above blanks)

APPLICATION TO APPROPRIATE UNAPPROPRIATED WATER

The United States of America by T.J. Allen Asst Director, Natl. Park Serv.
I, *for Lassen Volcanic Natl. Park Calif.*
Name of applicant

of *Department of the Interior, Washington 25* County of *_____*
Address

State of *District of Columbia*, do hereby make application for a permit to appropriate the
following described unappropriated waters of the State of California, **SUBJECT TO VESTED RIGHTS:**

Source, Amount, Use and Location of Diversion Works

1. The source of the proposed appropriation is *Branch*
Tributary to Sulphur Creek
Give name of stream, lake, etc., if named; if unnamed state nature of source and that it is unnamed
located in *Tehama* County, tributary to _____

2. The amount of water which applicant desires to appropriate under this application is as follows:

(a) For diversion to be directly applied to beneficial use _____ cubic feet per
second, to be diverted from *Jan. 1.* to *Dec 31.* of each year.
Beginning date Closing date
1 cubic foot per second equals 40
statute miner's inches or 646,317
gallons per day

(b) For diversion to be stored and later applied to beneficial use _____ acre-feet
per annum, to be collected between _____ and _____ of each season.
Beginning date Closing date
1 acre-foot equals 325,851 gallons

NOTE.—Answer (a) or (b) or both (a) and (b) as may be necessary. If amount under (a) is less than .025 cubic foot per second, state in
gallons per day. Neither the amount nor the season may be increased after application is filed.

3. The use to which the water is to be applied is *Domestic, Recreational, Irrigation, Fire Prot.*
Domestic, irrigation, power, municipal, mining, industrial, recreational
_____ purposes.

4. The point of diversion is to be located *S. 78° 30' W. - 1205 Ft. from E¹ Cor. Sec 28.*
State bearing and distance or coordinate distances from section or quarter section corner

being within the *N.W¹ of N.E¹ SE¹*
State 40-acre subdivision of U. S. Government survey or projection thereof

of Section *28*, T. *30 N.*, R. *4 E.*, *MD* B. & M., in the County of *Tehama*

5. The main conduit terminates in *SE¹ SE¹ NE¹* of Sec. *28*, T. *30 N.*, R. *4 E.*, *MD* B. & M.
State 40-acre subdivision of U. S. Government survey or projection thereof
at Sulphur Works Entrance Area of Lassen Volcanic Natl. Park.

Description of Diversion Works

NOTE.—An application can not be approved for an amount grossly in excess of the estimated capacity of the diversion works.

6. Intake or Headworks (fill only those blanks which apply)

(a) Diversion will be made by pumping from _____
Sump, offset well, unobstructed channel, etc.
(b) Diversion will be by gravity, the *Pipe intake* *in a Concrete Box in Stream bank.*
diverting dam being _____ feet in height (stream bed to

level of overflow); *3' x 3' x 4'* feet long on top; and constructed of *Concrete*
Concrete, earth, brush, etc.

(c) The storage dam will be *None.* feet in height (stream bed to overflow level); _____ feet
long on top; have a freeboard of _____ feet, and be constructed of _____
Concrete, earth, etc.

7. Storage Reservoir

Name

The storage reservoir will flood lands in *(Only regulatory storage.)*

Indicate section or sections, also 40-acre subdivisions unless shown upon map

It will have a surface area of _____ acres, and a capacity of _____ acre-feet.

☒ In case of insufficient space for answers in form, attach extra sheets at top of page 3 and cross reference.

8. Conduit System (describe main conduits only)(a) Canal, ditch, flume: Width on top (at water line) None feet; width at bottom None feet; depth of water None feet; length None feet; grade None feet per 1,000 feet; materials None of construction None
Cross out two not usedfeet; depth of water None feet; length None feet; grade None feet per 1,000 feet; materials None of construction None
Earth, rock, timber, etc.(b) Pipe line: Diameter 3" & 2" inches; length 957.9 feet; grade 16.8 feet per 1,000 feet; total fall from intake to outlet 166 feet; kind G. I. P. 13" Pipe controls diversion capacity:
Riveted steel, concrete, wood-stave, etc. 150 Gall. P. M.NOTE.—If a combination of different sizes or kinds of conduit is to be used, attach extra sheets with complete description, also show location of each clearly on map.9. The estimated capacity of the diversion conduit or pumping plant proposed is 0.11 S.F.
State cubic feet per second or gallons per minuteThe estimated cost of the diversion works proposed is
Give only cost of intake, or headworks, pumps, storage reservoirs and main conduits described herein**Completion Schedule**10. Construction work will begin on or before Construction work will be completed on or before The water will be completely applied to the proposed use on or before **Description of Proposed Use**11. Place of Use. N.E. 1/4 N.E. 1/4 Sec. 28 T. 30 N. R. 4 E.
State 40-acre subdivisions of the public land survey. If area is unsurveyed indicate the location as if lines of the public landsurvey were projected. In the case of irrigation use state the number of acres to be irrigated in each 40-acre tract, if space permits. If space does not permit listing of all40-acre tracts, describe area in a general way and show detail upon map.Does applicant own the land whereon use of water will be made? ?
Yes or NoIf applicant does not own land whereon use of water will be made, give name and address of owner and state what arrangements have been made with him.12. Domestic Use. Domestic use is proposed as follows: Ranger Sta. & Family Res.
Describe nature of use which may include stock water and the irrigation of domesticgardens not exceeding one-half acre with each place of residence. State number and kind of stock to be watered, number of houses and people to be served.The amount for which application is made was determined by
Describe basis of quantity needed13. Irrigation Use. The area to be irrigated is acres.
State net acreage to be irrigatedThe segregation of acreage as to crops is as follows: Rice acres; alfalfa acres;orchard acres; general crops acres; pasture acres.NOTE.—Care should be taken that the various statements as to acreage are consistent with each other, with the statement in Paragraph 11, and with the map.The irrigation season will begin about and end about
Beginning date Closing dateThe land to be irrigated has another water right or source of water supply other than that herein applied for. The nature no other
and amount of the additional supply referred to is 14. Power Use. The total fall to be utilized is feet.
Difference between nozzle or draft tube water level and first free water surface aboveThe maximum amount of water to be used through the penstock is cubic feet per second.The maximum theoretical horsepower capable of being generated by the works is horsepower.
Second feet $\times$ fall $\div$ 8.8The use to which the power is to be applied is
For distribution and sale or private use, etc.The nature of the works by means of which power is to be developed is
Turbine, Pelton wheel, etc.The size of the nozzle to be used is inches.The water will be returned to in of
will not Name stream State 40-acre subdivisionSec. , Tp. , R. , B. & M.

DO NOT WRITE IN THIS SPACE

ATTACH EXTRA SHEETS HERE

15. **Municipal Use.** This application is made for the purpose of serving _____
Name city or cities, town or towns. Urban areas only
 having a present population of _____

The estimated average daily consumption during the month of maximum use at the end of each five-year period until the full amount applied for is put to beneficial use is as follows:

16. **Mining Use.** The name of the mining property to be served is _____
Name of claim
 and the nature of the mines is _____
Gold placer, quartz, etc.

The method of utilizing the water is _____

It is estimated that the ultimate water requirement for this project will be _____
Cubic feet per second, gallons per minute. State basis of estimate

The water ☐ will be polluted by chemicals or otherwise ☐ will not
Explain nature of pollution, if any

and it ☐ will be returned to _____ in _____ of
Name stream State 40-acre subdivision

Sec. _____, T. _____, R. _____, B. & M.

17. **Industrial Use.** The nature of the use proposed is _____
Describe nature and method of use

The amount for which application is made was determined by _____
Describe basis of estimate of quantity needed

18. **Recreational Use.** Water will be used for _____
Describe nature and method of use

The amount for which application is made was determined by _____
Describe basis of estimate of quantity needed

General

19. Are the maps as required by the Rules and Regulations filed with Application? _____ If not,
Yes or No
 state specifically the time required for filing same _____

20. Does the applicant own the land at the proposed point of diversion? _____ If not, give name and
Yes or No
 address of owner and state what steps have been taken to secure right of access thereto _____

21. What is the name of the post office most used by those living near the proposed point of diversion?

Mineral, Calif. -

22. What are the names and addresses of claimants of water from the source of supply below the proposed point of diversion? _____

[SIGNATURE OF APPLICANT] _____

APPLICANT MUST NOT FILL IN BLANKS BELOW

PERMIT No. _____

This is to certify that the application of which the foregoing is a true and correct copy has been considered and is hereby approved SUBJECT TO VESTED RIGHTS and the following limitations and conditions:

1. The amount of water appropriated shall be limited to the amount which can be beneficially used, and shall not exceed
2. The maximum amount herein stated may be reduced in the license if investigation so warrants.
3. Actual construction work shall begin on or before _____ and shall thereafter be prosecuted with reasonable diligence, and if not so commenced and prosecuted this permit may be revoked.
4. Said construction work shall be completed on or before _____
5. Complete application of the water to the proposed use shall be made on or before _____
6. Progress reports shall be filed promptly by permittee on forms which will be provided annually by the State Engineer until license is issued.
7. All rights and privileges under this permit including method of diversion, method of use and quantity of water diverted are subject to the continuing authority of the Department acting through the State Engineer in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion of said water.

This permit is issued and permittee takes it subject to the following provisions of the Water Code:

Section 1390. A permit shall be effective for such time as the water actually appropriated under it is used for a useful and beneficial purpose in conformity with this division (of the Water Code), but no longer.

Section 1391. Every permit shall include the enumeration of conditions therein which in substance shall include all of the provisions of this article and the statement that any appropriator of water to whom a permit is issued takes it subject to the conditions therein expressed.

Section 1392. Every permittee, if he accepts a permit, does so under the conditions precedent that no value whatsoever in excess of the actual amount paid to the State therefor shall at any time be assigned to or claimed for any permit granted or issued under the provisions of this division (of the Water Code), or for any rights granted or acquired under the provisions of this division (of the Water Code), in respect to the regulation by any competent public authority of the services or the price of the services to be rendered by any permittee or by the holder of any rights granted or acquired under the provisions of this division (of the Water Code) or in respect to any valuation for purposes of sale to or purchase, whether through condemnation proceedings or otherwise, by the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State, of the rights and property of any permittee, or the possessor of any rights granted, issued, or acquired under the provisions of this division (of the Water Code).

Witness my hand and the seal of the
Department of Public Works of the State of California
this _____ day of _____ 19____

A. D. EDMONSTON,
State Engineer

[For full information concerning the filling out of this form refer to
Article 4 of Rules and Regulations Pertaining to Appropriation of Water]

STATE OF CALIFORNIA—DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
STATE ENGINEER

Application No. _____ Filed _____ at _____ M.
(Applicant must not fill in the above blanks)

APPLICATION TO APPROPRIATE UNAPPROPRIATED WATER

I, The United States of America, by T. J. Allen Assist. Director
Name of applicant National Park Service, for Lassen Volcanic Nat. Park, Calif.
of Department of the Interior, Washington D.C. County of _____
Address
State of District of Columbia., do hereby make application for a permit to appropriate the
following described unappropriated waters of the State of California, **SUBJECT TO VESTED RIGHTS:**

Source, Amount, Use and Location of Diversion Works

1. The source of the proposed appropriation is Branch
Tributary to Sulphur Creek
Give name of stream, lake, etc., if named; if unnamed state nature of source and that it is unnamed
located in Tehama. County, tributary to _____

2. The amount of water which applicant desires to appropriate under this application is as follows:

(a) For diversion to be directly applied to beneficial use _____ cubic feet per
second, to be diverted from Jan. 1 to Dec. 31. of each year.
Beginning date Closing date
1 cubic foot per second equals 40
statute miner's inches or 646,317
gallons per day

(b) For diversion to be stored and later applied to beneficial use _____ acre-feet
per annum, to be collected between _____ and _____ of each season.
Beginning date Closing date
1 acre-foot equals 325,851 gallons

NOTE.—Answer (a) or (b) or both (a) and (b) as may be necessary. If amount under (a) is less than .025 cubic foot per second, state in gallons per day. Neither the amount nor the season may be increased after application is filed.

3. The use to which the water is to be applied is Domestic, Recreational, Irrigation, Fire Protect?
Domestic, irrigation, power, municipal, mining, industrial, recreational
_____ purposes.

4. The point of diversion is to be located S 78° 30' W 1205 ft from E 1/4 Cor Sec 28
State bearing and distance or coordinate distances from section or quarter section corner

being within the NW 1/4 & NE 1/4 SE 1/4
State 40-acre subdivision of U. S. Government survey or projection thereof
of Section 28, T. 30 N, R. 4 E, MD B. & M., in the County of Tehama.

5. The main conduit terminates in SE 1/4 NW 1/4, of Sec. 28, T. 30 N, R. 4 E, MD B. & M.
State 40-acre subdivision of U. S. Government survey or projection thereof
at Sulphur Works Entrance Area of Lassen Volcanic National Park

Description of Diversion Works

NOTE.—An application can not be approved for an amount grossly in excess of the estimated capacity of the diversion works.

6. Intake or Headworks (fill only those blanks which apply)

(a) Diversion will be made by pumping from _____
Sump, offset well, unobstructed channel, etc.
(b) Diversion will be by gravity, the diverting dam being Pipe Intake is in Concrete box in stream bank
feet in height (stream bed to
level of overflow); 3'x3'x4' feet long on top; and constructed of Concrete
Concrete, earth, brush, etc.
(c) The storage dam will be None feet in height (stream bed to overflow level); _____ feet
long on top; have a freeboard of _____ feet, and be constructed of _____
Concrete, earth, etc.

7. Storage Reservoir

Name _____
The storage reservoir will flood lands in (Only regulatory Storage)
Indicate section or sections, also 40-acre subdivisions unless shown upon map

It will have a surface area of _____ acres, and a capacity of _____ acre-feet.

In case of insufficient space for answers in form, attach extra sheets at top of page 3 and cross reference.

8. Conduit System (describe main conduits only)

(a) Canal, ditch, flume: Width on top (at water line) None feet; width at bottom _____

Cross out two not used

feet; depth of water _____ feet; length _____ feet; grade _____ feet per 1,000 feet; materials of construction _____

Earth, rock, timber, etc.

(b) Pipe line: Diameter 3" & 2" inches; length 957.9 feet; grade 16.8 feet per

1,000 feet; total fall from intake to outlet 166 feet; kind G.I.P. (3" pipe controls diversion call)
Riveted steel, concrete, wood-stave, etc. 36' R. Piers = 93 ft. loss 150 GPM

NOTE.—If a combination of different sizes or kinds of conduit is to be used, attach extra sheets with complete description, also show location of each clearly on map.

9. The estimated capacity of the diversion conduit or pumping plant proposed is 0.11 S.L.
State cubic feet per second or gallons per minute

The estimated cost of the diversion works proposed is _____

Give only cost of intake, or headworks, pumps, storage reservoirs and main conduits described herein

Completion Schedule

10. Construction work will begin on or before _____

Construction work will be completed on or before _____

The water will be completely applied to the proposed use on or before _____

Description of Proposed Use

11. Place of Use. NE 1/4 Sec 28 T30N R4E
State 40-acre subdivisions of the public land survey. If area is unsurveyed indicate the location as if lines of the public land

survey were projected. In the case of irrigation use state the number of acres to be irrigated in each 40-acre tract, if space permits. If space does not permit listing of all 40-acre tracts, describe area in a general way and show detail upon map.

Does applicant own the land whereon use of water will be made? ?
Yes or No

If applicant does not own land whereon use of water will be made, give name and address of owner and state what arrangements have been made with him.

12. Domestic Use. Domestic use is proposed as follows: Ranger Sta & Family Re
Describe nature of use which may include stock water and the irrigation of domestic

gardens not exceeding one-half acre with each place of residence. State number and kind of stock to be watered, number of houses and people to be served.

The amount for which application is made was determined by _____
Describe basis of quantity needed

13. Irrigation Use. The area to be irrigated is _____ acres.
State net acreage to be irrigated

The segregation of acreage as to crops is as follows: Rice _____ acres; alfalfa _____ acres;
orchard _____ acres; general crops _____ acres; pasture _____ acres.

NOTE.—Care should be taken that the various statements as to acreage are consistent with each other, with the statement in Paragraph 11, and with the map.

The irrigation season will begin about _____ and end about _____
Beginning date Closing date

The land to be irrigated has another water right or source of water supply other than that herein applied for. The nature and amount of the additional supply referred to is _____
no other

14. Power Use. The total fall to be utilized is _____ feet.
Difference between nozzle or draft tube water level and first free water surface above

The maximum amount of water to be used through the penstock is _____ cubic feet per second.

The maximum theoretical horsepower capable of being generated by the works is _____ horsepower.
Second feet $\times$ fall $\div$ 5.5

The use to which the power is to be applied is _____
For distribution and sale or private use, etc.

The nature of the works by means of which power is to be developed is _____
Turbine, Pelton wheel, etc.

The size of the nozzle to be used is _____ inches.

The water will be returned to _____ in _____ of
will not Name stream State 40-acre subdivision

Sec. _____, Tp. _____, R. _____, B. & M. _____

DO NOT WRITE IN THIS SPACE

ATTACH EXTRA SHEETS HERE

15. **Municipal Use.** This application is made for the purpose of serving _____
Name city or cities, town or towns. Urban areas only
 having a present population of _____

The estimated average daily consumption during the month of maximum use at the end of each five-year period until the full amount applied for is put to beneficial use is as follows:

16. **Mining Use.** The name of the mining property to be served is _____
Name of claim
 and the nature of the mines is _____
Gold placer, quartz, etc.

The method of utilizing the water is _____

It is estimated that the ultimate water requirement for this project will be _____
Cubic feet per second, gallons per minute. State basis of estimate

The water ☐ will be polluted by chemicals or otherwise _____
☐ will not Explain nature of pollution, if any

and it ☐ will be returned to _____ in _____ of
☐ will not Name stream State 40-acre subdivision

Sec. _____, T. _____, R. _____, B. & M.

17. **Industrial Use.** The nature of the use proposed is _____
Describe nature and method of use

The amount for which application is made was determined by _____
Describe basis of estimate of quantity needed

18. **Recreational Use.** Water will be used for _____
Describe nature and method of use

The amount for which application is made was determined by _____
Describe basis of estimate of quantity needed

General

19. Are the maps as required by the Rules and Regulations filed with Application? _____ If not,
Yes or No
 state specifically the time required for filing same _____

20. Does the applicant own the land at the proposed point of diversion? _____ If not, give name and
Yes or No
 address of owner and state what steps have been taken to secure right of access thereto _____

21. What is the name of the post office most used by those living near the proposed point of diversion?

Mineral Calif.

22. What are the names and addresses of claimants of water from the source of supply below the proposed point of diversion? _____

[SIGNATURE OF APPLICANT] _____

APPLICANT MUST NOT. FILL IN BLANKS BELOW

PERMIT No. _____

This is to certify that the application of which the foregoing is a true and correct copy has been considered and is hereby approved SUBJECT TO VESTED RIGHTS and the following limitations and conditions:

1. The amount of water appropriated shall be limited to the amount which can be beneficially used, and shall not exceed
2. The maximum amount herein stated may be reduced in the license if investigation so warrants.
3. Actual construction work shall begin on or before _____ and shall thereafter be prosecuted with reasonable diligence, and if not so commenced and prosecuted this permit may be revoked.
4. Said construction work shall be completed on or before _____
5. Complete application of the water to the proposed use shall be made on or before _____
6. Progress reports shall be filed promptly by permittee on forms which will be provided annually by the State Engineer until license is issued.
7. All rights and privileges under this permit including method of diversion, method of use and quantity of water diverted are subject to the continuing authority of the Department acting through the State Engineer in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion of said water.

This permit is issued and permittee takes it subject to the following provisions of the Water Code:

Section 1390. A permit shall be effective for such time as the water actually appropriated under it is used for a useful and beneficial purpose in conformity with this division (of the Water Code), but no longer.

Section 1391. Every permit shall include the enumeration of conditions therein which in substance shall include all of the provisions of this article and the statement that any appropriator of water to whom a permit is issued takes it subject to the conditions therein expressed.

Section 1392. Every permittee, if he accepts a permit, does so under the conditions precedent that no value whatsoever in excess of the actual amount paid to the State therefor shall at any time be assigned to or claimed for any permit granted or issued under the provisions of this division (of the Water Code), or for any rights granted or acquired under the provisions of this division (of the Water Code), in respect to the regulation by any competent public authority of the services or the price of the services to be rendered by any permittee or by the holder of any rights granted or acquired under the provisions of this division (of the Water Code) or in respect to any valuation for purposes of sale to or purchase, whether through condemnation proceedings or otherwise, by the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State, of the rights and property of any permittee, or the possessor of any rights granted, issued, or acquired under the provisions of this division (of the Water Code).

Witness my hand and the seal of the
Department of Public Works of the State of California
this _____ day of _____ 19____

A. D. EDMONSTON,
State Engineer

07 OTHER

Lassen Volcanic National Park

SULPHUR WORKS ENTRANCE AREA PIPE INTAKE

Other Supporting Information

Print of drawing
needed to go with this

To : Reg. Director, Reg. Four

From : Chief, Water Resources Section

Subject : Federal Water Claims, Sulphur Works Area, Lassen
Volcanic National Park

Three ^{preliminary} prints of drawing NP-LV-6986 are attached.

The drawing has been compiled from the indicated sources. The study was started with the memorandum to you of March 31 from Mr. Richey, to determine what water rights were being acquired with the Supan property, which should be preserved, and how they could be used in connection with the Park developments.

Tract 2, the Little Hot Springs area, appears to have been patented on March 17, 1903. A reference to page 245 of Vol. 219 of its BLM records reveals that ^{Tract 2} it is patent No 2372. There are no improvements.

← Tract 14, Sulphur Works Area, was patented Dec. 19, 1934 as Patent No 1073550. It includes buildings and one or more simple water systems. By correspondence with the State Engineer, in connection with Butte Creek water rights, I also learned that there are no ^{recorded} appropriative rights to cover the water development. By memorandum of May 6, 1954 Mr. Hopper reported that he was unable to find any records of ^{county} water right filings. There was only a remote possibility of such filings because the county filing system was abandoned with the adoption of the present state water code in 1913. It follows that any water development and use has been made under the riparian doctrine which accrues to all patented land in California, provided the water systems are entirely within the patented land - tract 14. Tracts 2 & 14 were acquired by the United States by court judgement

of Nov. 4, 1952, Deed No 21.

We lack plans of the water systems, but the appraisals show the following water using facilities to exist on tract 14:

1. Sulphur Works Lodge, Constructed in 1941, has cold water connections ^(to sink)
(Another appraisal indicates No plumbing)
2. Sulphur Works Inn, Constructed in 1948, has 2 compartment sink constructed in 1947
3. Herrick cabins (4), with cold water sinks in kitchens
4. Herrick Utility Building, probably constructed in 1947, containing toilet and shower, and listed in ~~earlier~~ appraisal only
- ~~5. Curio Shop, constructed in 1947, no plumbing mentioned, and listed in only 1 appraisal~~
5. Curio Shop (2 buildings), constructed in 1947 and larger building has cold water sink in kitchen
6. Supon Cabins (3) Constructed 1949-1951, each with cold water sink in kitchen
7. Sulphur Works Bath House, constructed in 1948, containing 2 rooms with tubs.
8. Lunch Counter Building, Constructed in 1947, listed in earlier appraisal only.
9. Public comfort station, constructed 1949-1951, containing 2 toilets, 2 lavatories, 2 showers, & 1 hot water heater, and listed only in earlier appraisal.
10. Hydro-electric plant, constructed in 1951
11. Water system constructed in 1951, estimated cost at \$750. It is not clear whether this system serves both domestic and sulphur baths, or only the former.
12. Pit toilets (at least 3)

The entire development appears to be below Park Service standards. All, or a portion may have been removed ^{during the} ~~within~~ past two years, and the priority of first use under the riparian doctrine is not important at this time. However, the State has been attempting to limit and define riparian rights for

Several decades and each amendment of the State Water Code is a step in that direction. For this reason, we should have a plan of the development, if available, or a reasonably accurate sketch if one has to be made, of the water systems and water using facilities, with pipe diameters, control elevations and descriptions of diversion works, the water wheel and generator of the electric plant, and any reservoirs. We should also know what has been removed or is to be removed ^{with dates}, and what future development is contemplated on the patented tracts.

The drawing shows the Sulphur Works campground to be about 0.75 mile below the private land with a water system diverting from a ^{unnamed} ~~nameless~~ tributary of Sulphur Creek whose course across the road is uncertain. The water system has been constructed. The final construction report, with dates of construction and cost cannot be located. Exact elevations at intake, and pipe junctions ^{and control stations} in the road loop are not given, but topographic maps suggest an approximate fall of 153 feet in 1860 feet of 2" pipe, to give a diversion capacity of about 35 gpm, or 0.078 sec. ft with a residual pressure of 25 pounds. The ultimate capacity of campground, and resulting water demand are not given. All of ^{lacking} ~~this~~ ^{as mentioned} information, should be supplied so that the map and water right application can be completed if ^{the answer to} our enquiry to the Solicitor ^{concerning changing Fed. water policy} is that rights should now be established for Federal water use in the California Parks, or as a record for possible future use.

The drawing also shows the ranger station and checking kiosk at the park boundary, and a

water system which was proposed in ^{august} 1935. We have no record that this water system has been constructed, and the elevations, name of tributary and other data ^{are} ~~listed~~ lacking as in the case of data for the campground system. These data should be supplied, for the same reason.

→ We should also know whether any irrigation is contemplated at the campground or Entrance area, and the acreage and type of vegetation, if so.

It also appears that the proposed diversion and part of the pipe line would be on land to the south of the Park, in NW 1/4 NE 1/4 SE 1/4 Sec. 28, T30N, R 4E, MDB&M. Whether constructed, or to be constructed, the use of this land will require right of way permit.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
BRANCH OF ENGINEERING

COMPUTATION SHEET

SHEET _____ OF _____

MADE BY _____

CHECKED BY _____
(INITIAL AND DATE)

GPO 16-21755

Subject:

Two property's listed as Tract 14 and Tract 2.
are located on the boundry line of Shasta Co. and
Tehama Co on the 40 acre subdivisions 21 and 22. -

Room 130
#2372
Pat. 2372
Tract No: 2 (or Panel 2.) owned by Nellie J. Supan is
listed as: "T.C. No 2372 Redding. Moulton Supan. Pld.
March 17. - 1903. - Pat. Vol. 219 - P-245.

Tract No 14, (or Panel 1.) owned by Stella Jones listed
as: "024514 Sacramento - Stella Jones et al. Pld.
Dec. 19. 1934. Pat No: 1073550" -

Water System.

Tract No: 2. a fork of East Sulphur Creek flows
through tract from N to S. - Elevations ranging from:
6750 to 7750. Tract contains small lake known as:
"Ink Lake" about 200 Ft in Diameter. Tract contains
some hot springs in valley. -

Tract No: 14. Drainage is into W. Sulphur Creek. -
Has potholes with boiling water and mineralized
springs. - Elevation ranges, betw: 6900 and 7750. ft.

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Subject:

Improvements of Land.

Tract: 2 — None.

Tract: 14.

- 1.) "Sulphur Works Inn." — or "Herrick Restaurant"
Located on S. side of Lassen Peak Highway. Frame
Structure. Cold water is piped into the Building. —
- 2.) "Four Herrick Cabins." Four individual Cabins. —
Frame Construction. — only plumbing a cold water sink. —
- 3.) "Herrick Utility Bldg." Frame constr. — similar to the
cabins. — Contains a toilet and shower. —
- 4.) "Dyuan Lodge Bldg." — Frame constr. no plumbing. —
- 5.) "Three Dyuan Cabins." Frame Constr. only plumbing
is a cold water sink. —
- 6.) "Scenic View Gift Shops". Two small Frame Bldgs.
Larger Bldg. has small kitchen with cold water sink
- 7.) "Sulphur Bath House." Frame Struct. — Interior partition
ed into 2 Rooms, each containing a bath tub. Plum-
bing consists of Pipe from Sulphur pool to bath tubs. —

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Subject:

8.) 3 outhouses, Service Sta, and Oil house. Wood Const with water well, for Electric Generator. -

Seemingly old water system is in operation, and there is no evidence, for improved water system. -

Water system on Ranger Station and Chalking Hook. -

Two branches of unnamed creeks are crossing the area and are flowing from N. to S. - near and above the Ranger Sta. Bldg, joining the W. Sulphur Mill Creek East and below the Ranger Station. - The daily consumption of water at the Ranger Sta is:

35 gal/capita - over night

57 gal/capita - per day.

It is proposed a Water Pipe Line system, sewer system, 3/4" Fire Hydrants (two) and two comfort stations.

(Information Expected)

Water system on "Loop Parking" Area.

2" Pipe Line is cutting accross Loop Highway and

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GPO 16-21755

Subject:

Parking area. - Intake located at point 0+00 following the course Eastward, taking a sharp northward turn between Park Loop Highway and Camp Ground area, crossing both legs of Loop Highway to discharge Point. -

The length of Pipe line is: 1860 ft.

Grade:

Total fall from Int to outfall:

Kind: 2" G.I.P.

Elevation: 6847 - 6694. (153')

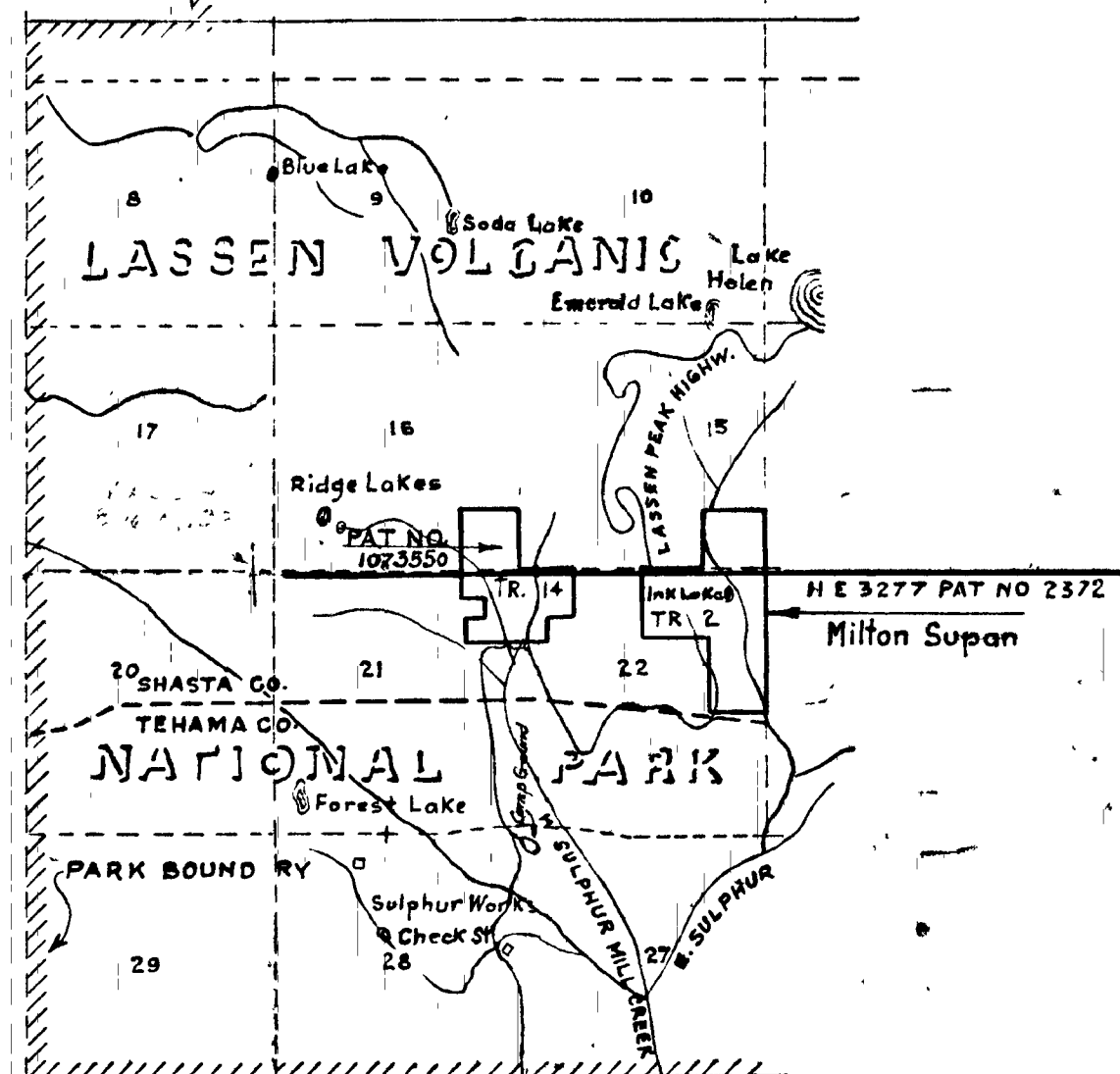
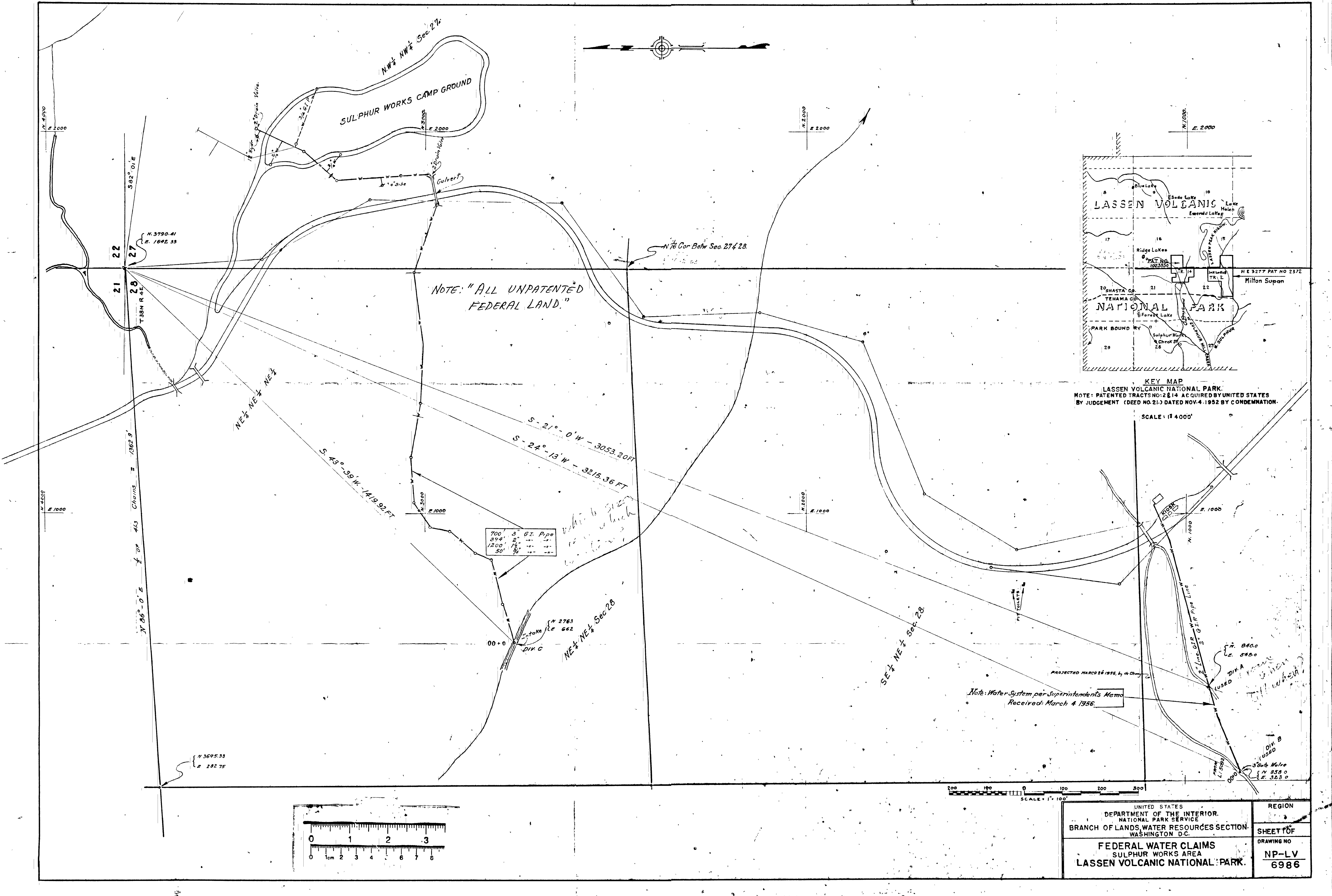
Discharge: $1860 \times 57 = 91'(\text{loss}) = 58' \text{ diff. of Pres. Press.} =$
 $= 25 \text{ Pounds} = \underline{35 \text{ gall/min.}}$ respectively with
 30' diff. - 13 pounds Pres. Press. = 40 gall/min.

08 MAPMISC

Lassen Volcanic National Park

SULPHUR WORKS ENTRANCE AREA PIPE INTAKE

Maps and Miscellaneous Information



KEY MAP
LASSEN VOLCANIC NATIONAL PARK.
NOTE: PATENTED TRACTS NO. 2 & 14 ACQUIRED BY UNITED STATES
BY JUDGEMENT (DEED NO. 21) NOV. 4, 1952 BY CONDEMNATION.

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE BRANCH OF LANDS, WATER RESOURCES SECTION WASHINGTON D.C.		REGION 3
FEDERAL WATER CLAIMS SULPHUR WORKS AREA LASSEN VOLCANIC NATIONAL PARK.		SHEET 1 OF DRAWING NO NP-LV 6986

Docket Information

Number of Documents in Docket : 19

Documents Dated from : 01-12-2015 to 01-07-2025

Docket Compiled: 1/27/2025