



State Water Resources Control Board

26306
SURNAME/PERMITS



Winston H. Hickox
Secretary for
Environmental
Protection

Division of Water Rights
901 P Street • Sacramento, California 95814 • (916) 657-1933
Mailing Address: P.O. Box 2000 • Sacramento, California • 95812-2000
FAX (916) 657-1485 • Web Site Address: <http://www.swrcb.ca.gov>
Division of Water Rights: <http://www.waterrights.ca.gov>

Gray Davis
Governor

AUG 29 2000

In Reply Refer
To:341:WCS:26305, 26306, 26307

Emmerson Investment, Inc.
c/o Jack G. Frost
PO Box 496014
Redding, CA 96049-6014

Dear Mr. Frost:

PERMITS 19163, 19164, AND 19165 (APPLICATIONS 26305, 26306, AND 26307)
SHASTA RIVER IN SISKIYOU COUNTY

On June 13, 2000, I conducted a field inspection of the water diversion projects covered by the above permits. I was accompanied by ranch foreman Pete Scala and Department of Water Resources watermaster Keith Dick. Subsequent to my visit, I gave you a call and we discussed my findings and recommendations, so this letter will be a fairly brief written summary of needed actions on your part.

These three permits cover diversions of water surplus to that distributed in accordance with the Shasta River Adjudication. These are generally early season flows resulting from leakage at the dam for Lake Shastina. The primary supplies of irrigation water for the places of use of these permits, Seldom Seen Ranch and Hole-In-The Ground Ranch, are waters covered by your adjudicated rights, which are "banked" for you in Lake Shastina.

The project under Permit 19163 utilized Diversion No. 156 of the adjudication to serve the Seldom Seen Ranch. This diversion has not been used for approximately 15 years and is in disrepair. A groundwater well has been used to irrigate this ranch (or at least portions of it) so that the "banked water" allotted this ground can be transferred to the Hole-In-The-Ground Ranch. This transfer is done informally with the watermasters' knowledge since no other water uses are adversely affected. Consequently, the project under Permit 19163 has been abandoned, the permit is unneeded, and I have recommended that it be revoked. Enclosed is a form for your signature and return which will authorize this revocation.

The projects under Permits 19164 and 19165 utilize Diversions 165 and 166 of the adjudication to serve portions of the Hole-In-The-Ground Ranch. Construction and use of water under these permits are complete but the projects are not ready for license because 1) measuring devices required by term 17 of each permit have not been installed. These devices are intended to

SURNAME
DWR 540

W.C. Frost
8-28-00

Scala
8/28/00

Emmerson
Exhibit 29

show at a glance that the minimum 1 cubic foot per second (cfs) is being bypassed below each diversion point, and 2) no records have been kept of the amount of surplus water diverted under each permit. Such records of historical use are needed so that we may calculate the rate of diversion during the maximum month, the total acre-feet diverted during the maximum season, and to determine the season of diversion.

During my inspection, Mr. Dick indicated that he would work with Mr. Scala to devise a scheme for measurement of the 1 cfs fish bypass for each of the two diversions. He also said that he could use the existing 24" Parshall flume at the head of each ditch system to measure the amount of water being diverted and keep records of such measurements.

Licenses issued on Permits 19164 and 19165 will be based on measurements taken in future years. Since the time to complete use of water under each of these permits expired on December 31, 1995, extensions of time will be required. (Incidentally, the last extensions of time were granted in 1991 to former owner Gene Davis, also to keep diversion records for licensing.)

In view of the fact that your projects are not yet in compliance with the fish bypass measuring device requirement, I have recommended that extensions of time be denied until compliance is achieved.

You are hereby requested to submit, for my approval, a plan and an installation schedule for these measuring devices within 60 days of the date of this letter. Any future diversion of surplus water without an approved measuring device at either diversion would be in violation of term 17 of these permits and could result in administrative civil liability fines of \$500.00 per day. I'm sure you will want to take care of this matter before the next irrigation season commences so you can divert any surplus water that is available. Depending on the type of measuring device selected, some or all necessary construction may be most easily accomplished during low flows at the end of the current irrigation season.

I suggest that you formally request Mr. Dick's services for the next few years for making diversion measurements and keeping records for each diversion as follows: (1) the dates surplus water is diverted, (2) the corresponding head on the flumes, and, (3) if necessary, a calculation to determine how much of said water is surplus flow and how much is "banked" water released at your request from Lake Shastina. A copy for our files of your written request for watermaster assistance in making diversion measurements and keeping diversion records would be appreciated. Ideally such records would be submitted by you annually along with the Progress Report by Permittee which we will mail to you at the end of each year. It is likely that such a reporting requirement will be imposed as a condition of receiving extensions of time on Permits 19164 and 19165. I suggest that both you and Mr. Dick also keep a copy of such records in your own files.

AUG 29 2000

Emmerson Investment, Inc.

3

Please give me a call at (916) 657-1933 if you have any questions. I will be looking for your plans for fish bypass measuring devices. I may need to visit the projects after installation of the devices to see how they are working. Once I have received and approved your plans, I will forward forms for your completion and submittal with the required fees to request extensions of time.

Sincerely,

ORIGINAL SIGNED BY

Wayne C. Smith
Associate WRC Engineer

cc: Pete Scala
Shasta Springs Ranch
21305 Slough Road
Weed, CA 96097

Keith Dick
9106 Airport Road
Montague, CA 96064

encl.

WSmith\lfischer
D:\wcs\26305 8/28/2000

**STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS
REPORT OF INSPECTION**

FILING DATA

APPLICATION NO.: 26306

FILING DATE: 4-21-80

NAME : Emmerson Investment, Inc.
 ADDRESS : c/o Jack G. Frost, P.O. Box 496014, Redding, CA 96049-6014
 SOURCE : Shasta River tributary to Klamath River
 PT. OF DIV. : NE1/4 of NW1/4 of Section 22, T43N, R5W, MDB&M COUNTY: Siskiyou
 AMOUNT : 5 cfs; 400 AFA total
 PURPOSE : Irrigation and Stockwatering
 PLACE OF USE: 112 acres within Sections 16, 21, and 22, T43N, R5W, MDB&M (see E-map for 1/4-1/4 breakdown)
 SEASON : February 1 to November 1

PERMIT NO. : 19164

DATE ISSUED: 3-23-84

EXPIRES: 12-31-95

Date of Inspection: June 13, 2000 Inspected By (signature/submit date): Wayne C. Smith 8-21-00
 Accompanied By: Pete Scala (ranch foreman) Telephone: (530) 938-3874 (residence)
(530) 598-4782 (cell phone)
Keith Dick (DWR watermaster) Telephone: (530) 459-3876
 Person(s) Interviewed: Jack Frost (agent) Telephone: (530) 378-8119

RECOMMENDATION

License Extension to 2005 No Action Revoke Other
 conditional
 Changes Corrections No Changes or Corrections
 Owner Address Amount Season Purpose Point of Diversion Place of Use

Remarks: (explain basis for recommendation)

This permit, along with companions A26305 and A26307, was filed for water surplus to that distributed in accordance with the Shasta River Adjudication. Such surplus water generally consists of excess early season flows resulting from leakage from the dam for Lake Shastina. Each of the three separate PODs/POUs under these permits also has rights for their primary irrigation water under the Decree. At the time of construction of Dwinnell Reservoir (now Lake Shastina), a water right settlement allotted each POU a fixed amount of water, to be released each season upon demand and under watermaster supervision, from storage in the reservoir.

These diversions and POUs were developed years ago and therefore construction and use of water have been complete for some time. However two issues remain: compliance with the measuring device for fish bypass requirement and keeping of diversion records for licensing purposes.

These projects were deemed in compliance with the 1 cfs fish bypass in a 1986 inspection based on the watermaster's control of the diversions and his need to maintain flows greatly in excess of 1 cfs for downstream users. However, the permit clearly calls for a measuring device, presumably so that any interested party could tell at a glance if the bypass was being met. In addition, there have apparently been times early in the irrigation season when diversions have been made under this permit and watermaster service had not yet begun. The DWR watermaster, Keith Dick, has indicated that he will work with the permittee to devise a scheme to comply with this requirement.

A Parshall flume with recorder is in place at the head of the ditch used under this permit and while it is used by the watermaster, no diversion records are kept, even though a term in this permit requires the diversion to be under watermaster supervision, even though the last extension was granted (to a prior owner) for the purpose of keeping diversion records, and even though Mr. Dick was present at both of our last two inspections. We discussed in detail his need to maintain written records for submittal to us to establish both a maximum month and maximum annual use of water. This will require a breakdown between water diverted under this permit (surplus water) and water diverted under the adjudicated right (water banked in Lake Shastina).

My recommendation for this permit is to request a plan and schedule for installation of the measuring device for my approval. After approval, we would accept a petition for an extension of time for diversion records to be kept to support licensing.

SOURCE

Name: Shasta River Who measures flow? monitored by DWR watermaster
 Tributary to: Klamath River
 Flow at time of inspection: 25 cfs How and where determined? estimate of flow at POD of this permit, by Mr. Dick, including 10 cfs being added to river via cross canal from Montague WCD main canal
 Is supply natural?: partially; at times includes releases from storage in Lake Shastina as mentioned above

2000
3rd Inspection

W 8-22-00

DIVERSION SYSTEM

(1) California Coordinates. Zone . N. . E. Is point of diversion as specified?
yes

Is change petition/correction required? (explain) no
 Would change cause any injury? no change
 Owner of land at point of diversion: permittee
 Assessor's Parcel No.: 20-04-43 Type of access:
 Is diversion system complete? yes If not, what remains to be done?

Capacity of the limiting section: 8 cfs
 How determined? visible waterline at H=1.0' on staff gage for 24" Parshall flume in ditch just below POD; also backed up by statement of Mr. Dick. Diversion at inspection: H=0.81'=5.77 cfs from tables. Mr. Dick said that this amount includes about half surplus (permit) water and half adjudicated water.

PLACE OF USE

Name of place of use, if commonly known as such: Hole-in-the-Ground Ranch
 Describe any changes/corrections from the place of use as described in the permit or order: no changes; POU shown on E-map was both field checked and checked against aerial photos (in field file; from TerraServer web page). E-map appears surprisingly accurate.

Is change petition/correction required? (explain) no

Is place of use developed to a point where full use of water may be made? (explain) yes

Does it appear that development has been pursued with due diligence? (explain) yes

Owner of land at place of use: permittee
 Assessor's Parcel No.: portions of 20-04-43, 20-03-04 and 20-03-08
 Acreage: see assessor plats in field file

MAJOR USES OF WATER

Briefly describe diversion works and method of applying water to major use: Scrap two-bys of various widths are used to partially block the entrances to two culverts (one 42" and one 36") through an earth/rock diversion dam (approx 6' high x 40' long) across the Shasta River. The water level is thereby raised so that a portion will flow by gravity into an earth ditch. Flow into the ditch is controlled by the boards placed in front of the culverts and by a screw gate on another culvert about 50' down the ditch. Not far below the screw gate flow in the ditch is measured by a 24" Parshall flume (with recorder) operated by the DWR watermaster, Mr. Dick. Interestingly, Mr. Dick said the purpose of the recorder and flume was not to keep diversion records but to ensure that water is not "stolen" by monkeying with the water levels. The ditch is used to flood irrigate a portion of the Hole-in-the-Ground ranch on the east side of the river. Temporary tarp "dams" are typically used to turn water out of the ditch, but there are some permanent sliding gate turnouts in place.

Does method appear wasteful, judging from local standards? (explain) No, this is the typical method for this area.

List acreage/crop type or other units served during maximum season (show on attached sketch/map): 112 total acres, all meadow grass, is irrigated, of which the northerly 75 acres (approx) is hayed, then pastured. The upper (southerly) 37 or so acres is pastured only. About 75 head of cattle are grazed on this portion of the ranch, possibly along with ranch horses.

OTHER USES

Average number of persons served during maximum period: none Number of housing units: none

Plumbing facilities available: n/a
 Area of garden, lawn, orchard, dust control, etc. (show measurements on attached sketch): none known

Number and type of domestic livestock served: none known
 Other miscellaneous uses: (list and explain) none

EXTENT OF USE OF WATER

Season of use and/or diversion to storage: will have to be determined from diversion records to be kept by Mr. Dick or his successor. Apparently irrigation under this permit does not occur until late March at the earliest and continues until all surplus water is gone and all water being diverted by permittee is being released for him from Lake Shastina. Early irrigations may consist entirely of surplus water in good water years when Lake Shastina has filled, as leakage occurs at a much greater rate when the lake level is high. Mr. Dick is aware from our discussion that he will need to keep and provide diversion records, based on the Parshall flume measurements, to substantiate both the amount and season for this appropriation. According to Mr. Scala, it takes them 2-1/2 to 3 weeks to complete one irrigation of the area flood irrigated by this ditch. Mr. Dick estimates that in a good year the permittee may get 2-3 early irrigations using surplus water before he has to release stored (adjudicated) water for them.

Rate of use by direct diversion during maximum period: to be determined by future records (see above)

Beginning and ending dates of maximum period: to be determined by future records (see above)

Maximum annual diversion: to be determined by future records (see above) Year of maximum use: 19

Complete the following if storage is involved: NO STORAGE

Maximum amount diverted to storage in one season: _____ Year: 19 - 19

Maximum withdrawal in one season (if applicable): _____ Year: 19

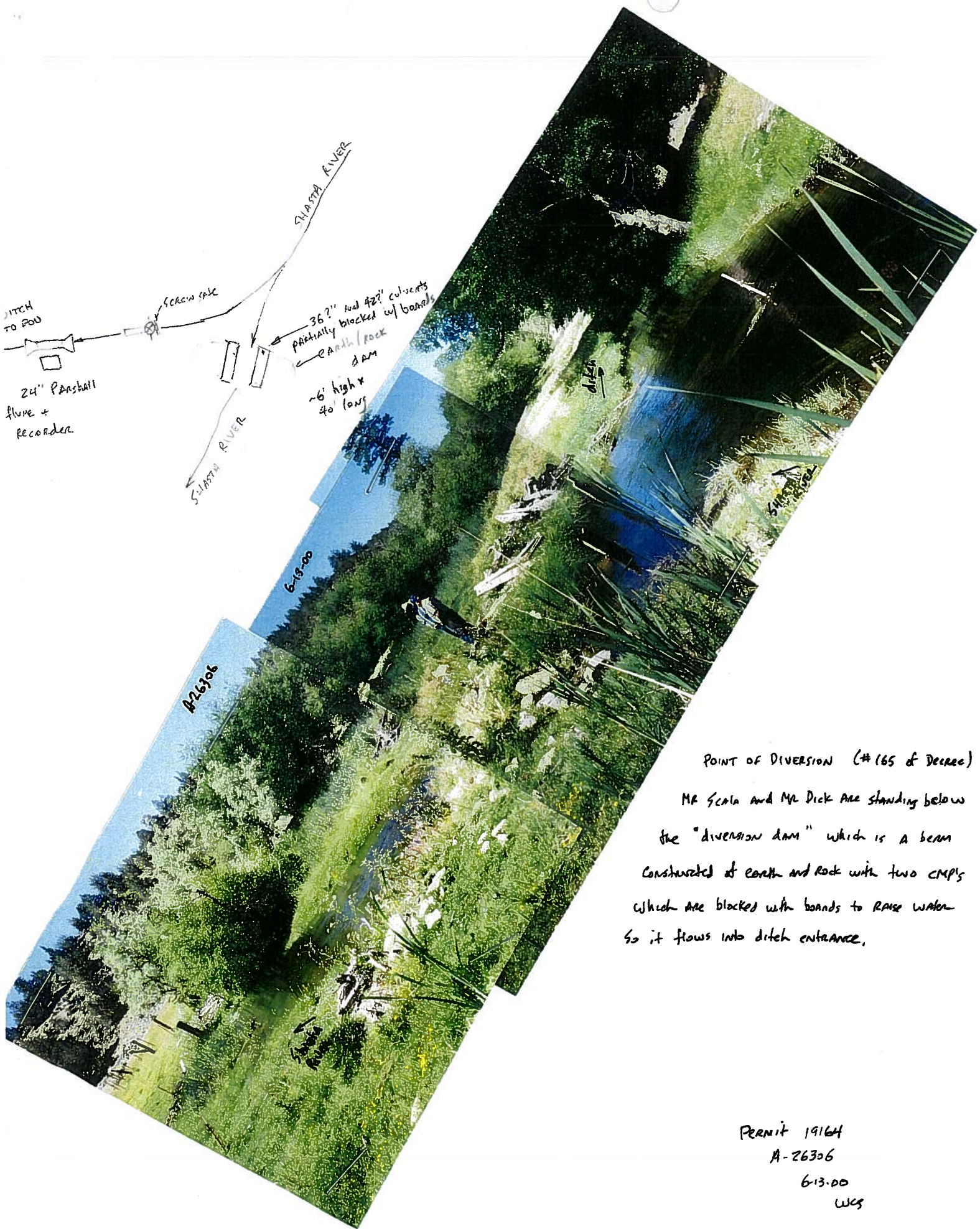
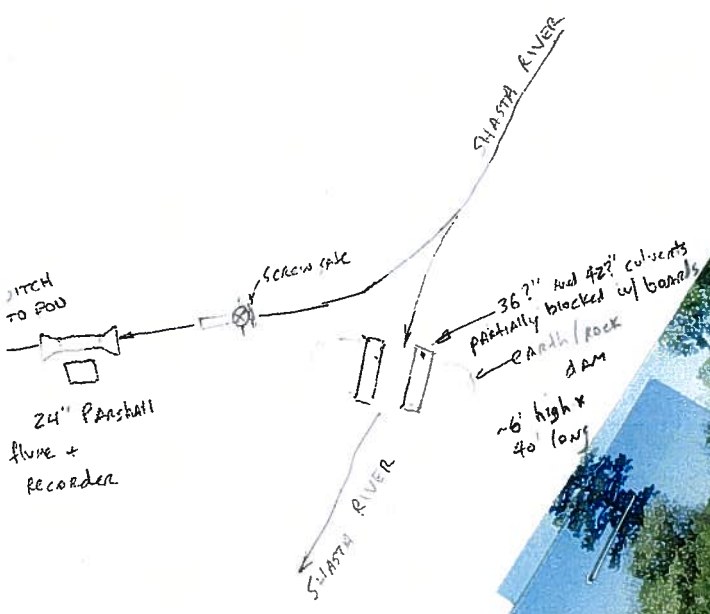
PERMIT TERMS

Address compliance with each Permit term (by term number): terms 14 and 15: the watermaster has long been aware of these permits and has been providing service to the permittees, but only to the extent necessary to ensure their diversions do not injure other users, not to the extent of keeping diversion records; terms 16 and 17: Mr. Dick maintains that the 1 cfs fish bypass is NEVER an issue for several reasons: he must manage these diversions while still satisfying the needs of downstream diverters; if insufficient water is available the flow is augmented by releases from Lake Shastina; and the existing diversion is physically unable to dewater the stream. He understands, however that term 17 requires a device for actual measurement to enable him, us or others to tell at a glance whether the bypass is being met. He is to work with the permittee to come up with such device for each of their diversion dams. For this diversion (No. 165), this might mean replacing the existing system of partially blocking the culverts with loose two-bys with a metal framework to hold flashboards fastened to the upstream end of the culverts. These flashboards may be used to form a weir with a specific pour-over head indicating a bypass is being met, or a sized orifice may be put in one or more lower boards to ensure a 1 cfs bypass. It is not certain at this time whether the device will be designed based on calculated flows or calibrated with actual flow measurements. I told Mr. Scala that I would be writing to them to request that they provide plans for the measuring devices for both diversions along with an installation schedule (before the next irrigation season; probably in the fall after the current irrigation season), for my approval. I explained that we likely would not process their extension requests until such a plan and schedule are approved.

OTHER RIGHTS (show pertinent information)

Companion Permit 19163 (A26305) and Permit 19165 (A26307) were also inspected. Revocation is recommended for P19163, and an extension of time for diversion record-keeping is recommended for P19165. According to Mr. Dick, the Seldom Seen Ranch gets 924 ac-ft and the Hole-in-the-Ground Ranch 596 ac-ft under the Shasta River Adjudication (not verified - this is the water "banked" in Lake Shastina which the ranches can request each season on demand).

L11609 (A23767) covers two reservoirs on an adjacent ranch also owned by Emmerson. L4151 (A8809) covers a spring on the bank of the Shasta River between the A26306 and A26307 PODs. This water is apparently rediverted at the A26307 POD, but I was not aware of L4151 at the time of this inspection, and therefore did not discuss it with Mr. Dick. This matter should be looked into to ensure that there is no duplication in Mr. Dick's diversion measurements, i.e. credit given towards P19165 for water already covered by L4151.



POINT OF DIVERSION (#165 of Decree)
 MR SCALA and MR DICK are standing below
 the "diversion dam" which is a beam
 constructed of earth and rock with two CMP's
 which are blocked with boards to raise water
 so it flows into ditch entrance.

PERMIT 19164
 A-26306
 6-13-00
 WCS

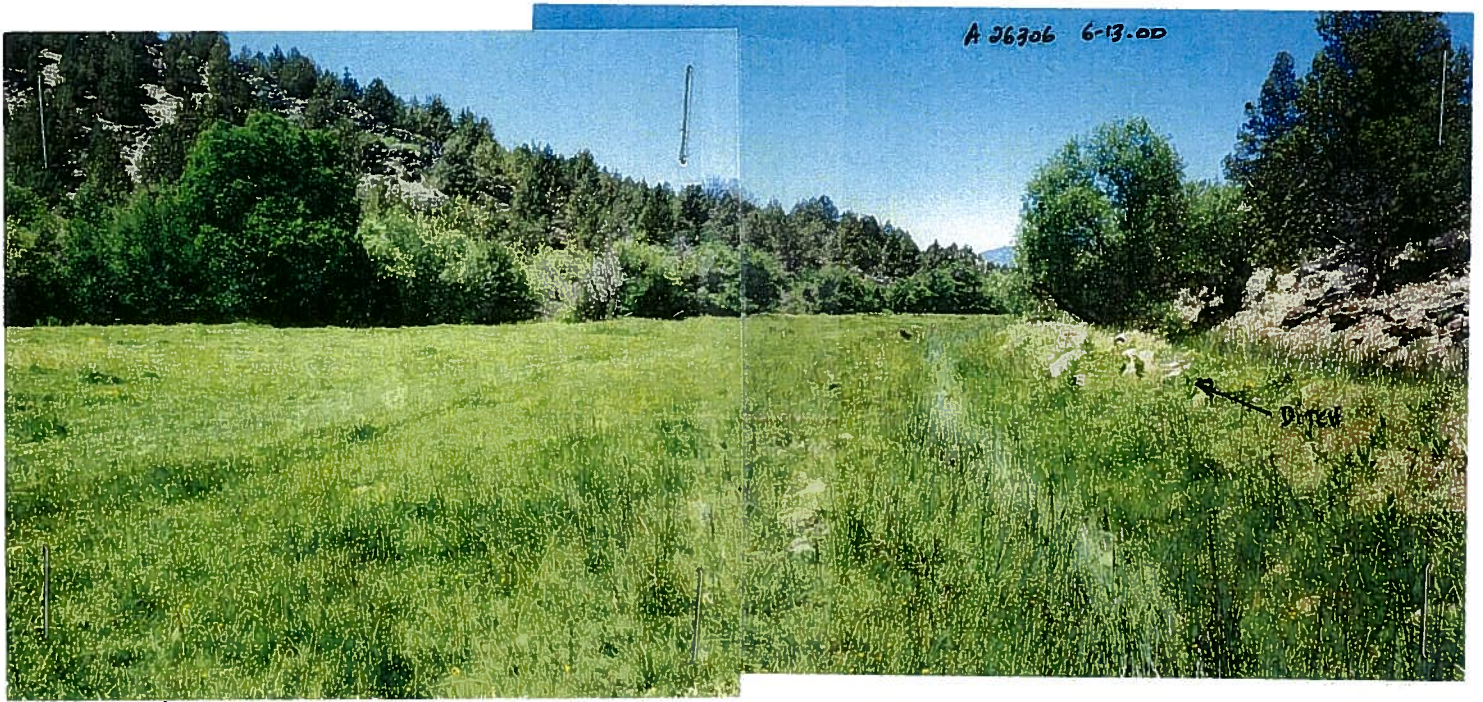


Screw gate on CMP
in ditch ~ 50' below POD
Recorder Box (below)
CAN be seen to left rear



24" Parshall flume in ditch
~ 75' downstream of POD
MR. Dick is checking Recorder
(is box)

PERMIT 19164
A-26306
6-13-00
WRS



A 26306 6-13-00

DITCH

↑
NARROW STRIP
ALONG UPPER DITCH

PORTIONS OF FLOOD IRRIGATED PLACE OF USE

↓
UPPER END OF MAIN PASTURE
BELOW RESIDENCE / CORRALS



A 26306 6-13-00

ditch

PERMIT 19164
A-26306
6-13-00 WCS

**STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS
REPORT OF INSPECTION**

FILING DATA

APPLICATION NO.: 26307

FILING DATE: 4-21-80

NAME : Emmerson Investment, Inc.
 ADDRESS : c/o Jack G. Frost, P.O. Box 496014, Redding, CA 96049-6014
 SOURCE : Shasta River tributary to Klamath River
 PT. OF DIV. : NW1/4 of NE1/4 of Section 21, T43N, R5W, MDB&M
 AMOUNT : 14 cfs; 800 AFA total
 PURPOSE : Irrigation and Stockwatering
 PLACE OF USE: 375 acres within Sections 16, 17, 20, and 21, T43N, R5W, MDB&M (see E-map for 1/4-1/4 breakdown)
 SEASON : February 1 to November 1

COUNTY: Siskiyou

PERMIT NO. : 19165

DATE ISSUED: 3-23-84

EXPIRES: 12-31-95

Date of Inspection: June 13, 2000 Inspected By (signature/submit date): Wayne C. Frost 8-21-00
 Accompanied By: Pete Scala (ranch foreman) Telephone: (530) 938-3874 (residence)
Keith Dick (DWR watermaster) (570) 598-4782 (cell phone)
 Person(s) Interviewed: Jack Frost (agent) Telephone: (530) 459-3876
(530) 378-8119

RECOMMENDATION

License Extension to 2005 No Action Revoke Other
 Changes conditional
 Owner Address Amount Season Purpose Point of Diversion Place of Use
 Corrections No Changes or Corrections

Remarks: (explain basis for recommendation)

This permit, along with companions A26305 and A26306, was filed for water surplus to that distributed in accordance with the Shasta River Adjudication. Such surplus water generally consists of excess early season flows resulting from leakage from the dam for Lake Shastina. Each of the three separate PODs/POUs under these permits also has rights for their primary irrigation water under the Decree. At the time of construction of Dwinnell Reservoir (now Lake Shastina), a water right settlement allotted each POU a fixed amount of water, to be released each season upon demand and under watermaster supervision, from storage in the reservoir.

These diversions and POU's were developed years ago and therefore construction and use of water have been complete for some time. However two issues remain: compliance with the measuring device for fish bypass requirement and keeping of diversion records for licensing purposes.

These projects were deemed in compliance with the 1 cfs fish bypass in a 1986 inspection based on the watermaster's control of the diversions and his need to maintain flows greatly in excess of 1 cfs for downstream users. However, the permit clearly calls for a measuring device, presumably so that any interested party could tell at a glance if the bypass was being met. In addition, there have apparently been times early in the irrigation season when diversions have been made under this permit and watermaster service had not yet begun. The DWR watermaster, Keith Dick, has indicated that he will work with the permittee to devise a scheme to comply with this requirement.

A Parshall flume with recorder is in place at the head of the ditch used under this permit and while it is used by the watermaster, no diversion records are kept, even though a term in this permit requires the diversion to be under watermaster supervision, even though the last extension was granted (to a prior owner) for the purpose of keeping diversion records, and even though Mr. Dick was present at both of our last two inspections. We discussed in detail his need to maintain written records for submittal to us to establish both a maximum month and maximum annual use of water. This will require a breakdown between water diverted under this permit (surplus water) and water diverted under the adjudicated right (water banked in Lake Shastina).

My recommendation for this permit is to request a plan and schedule for installation of the measuring device for my approval. After approval, we would accept a petition for an extension of time for diversion records to be kept to support licensing.

SOURCE

Name: Shasta River Who measures flow? monitored by DWR watermaster
 Tributary to: Klamath River
 Flow at time of inspection: 25-30 cfs How and where determined? estimate of flow at POD of this permit, by Mr. Dick, including 10 cfs being added to river via cross canal from Montague WCD main canal
 Is supply natural?: partially; at times includes releases from storage in Lake Shastina as mentioned above

2000
3rd Inspection

SO
8-22-00

DIVERSION SYSTEM

(1) California Coordinates. Zone . N. . E. Is point of diversion as specified? yes

Is change petition/correction required? (explain) no
 Would change cause any injury? no change
 Owner of land at point of diversion: permittee
 Assessor's Parcel No.: 20-03-08 Type of access:
 Is diversion system complete? yes If not, what remains to be done?

Capacity of the limiting section: 8 cfs
 How determined? visible waterline at H=1.25' on staff gage for 24" Parshall flume in ditch just below lift pump discharge represents output some years ago when pumps were new, according to Mr. Dick; he said current capacity with both pumps running is 8 cfs (1.0' on gage). Diversion at inspection (with 30 hp lift pump in use; 15 hp pump off): H=0.74'=5.02 cfs from tables. Mr. Dick said that this amount includes about half surplus (permit) water and half adjudicated water.

PLACE OF USE

Name of place of use, if commonly known as such: Hole-in-the-Ground Ranch
 Describe any changes/corrections from the place of use as described in the permit or order: no changes; POU shown on E-map was both field checked and checked against aerial photos (in field file; from TerraServer web page). E-map appears surprisingly accurate. Lighter (drier) areas on aerial photos are shallow-soiled, rocky ground which get effectively irrigated only when there is plenty of water, according to Mr. Scala. They appear unirrigated in photos, which were taken on July 25, 1994 (a drought year)

Is change petition/correction required? (explain) no

Is place of use developed to a point where full use of water may be made? (explain) yes

Does it appear that development has been pursued with due diligence? (explain) yes

Owner of land at place of use: permittee
 Assessor's Parcel No.: portions of 20-03-03, -04, -08, and -10
 Acreage: see assessor plats in field file

MAJOR USES OF WATER

Briefly describe diversion works and method of applying water to major use: A concrete and flashboard dam is used to raise the water level in the Shasta River so that a portion will flow by gravity into a concrete ditch about 300' long. The concrete ditch leads to a lift station with 15 and 30-hp electric pumps which discharge via 14" steel pipe to short section of concrete ditch thence 24" Parshall flume with recorder (operated by DWR watermaster, Mr. Dick) thence concrete and earth ditch system. Interestingly, Mr. Dick said the purpose of the recorder and flume was not to keep diversion records but to ensure that water is not "stolen" by monkeying with the water levels. The ditch system is used to flood irrigate a portion of the Hole-in-the-Ground ranch on the west side of the river. Temporary tarp "dams" are typically used to turn water out of the ditch, but there are some permanent sliding gate turnouts in place.

Does method appear wasteful, judging from local standards? (explain) No, this is the typical method for this area.

List acreage/crop type or other units served during maximum season (show on attached sketch/map): 375 total acres, all meadow grass, is irrigated. All areas have been hayed and then pastured, although in certain years, some areas are pastured only. About 300 head of cattle are grazed on this portion of the ranch, possibly with ranch horses.

OTHER USES

Average number of persons served during maximum period: none Number of housing units: none

Plumbing facilities available: n/a

Area of garden, lawn, orchard, dust control, etc. (show measurements on attached sketch): none known

Number and type of domestic livestock served: none known

Other miscellaneous uses: (list and explain) none

EXTENT OF USE OF WATER

Season of use and/or diversion to storage: will have to be determined from diversion records to be kept by Mr. Dick or his successor. Apparently irrigation under this permit does not occur until late March at the earliest and continues until all surplus water is gone and all water being diverted by permittee is being released for him from Lake Shastina. Early irrigations may consist entirely of surplus water in good water years when Lake Shastina has filled, as leakage occurs at a much greater rate when the lake level is high. Mr. Dick is aware from our discussion that he will need to keep and provide diversion records, based on the Parshall flume measurements, to substantiate both the amount and season for this appropriation. According to Mr. Scala, it takes them 3 to 4 weeks to complete one irrigation of the area flood irrigated by this ditch. Mr. Dick estimates that in a good year the permittee may get 2 early irrigations using surplus water before he has to release stored (adjudicated) water for them.

Rate of use by direct diversion during maximum period: to be determined by future records (see above)

Beginning and ending dates of maximum period: to be determined by future records (see above)

Maximum annual diversion: to be determined by future records (see above) Year of maximum use: 19

Complete the following if storage is involved: NO STORAGE Year: 19 - 19

Maximum amount diverted to storage in one season: _____ Year: 19

Maximum withdrawal in one season (if applicable): _____ Year: 19

PERMIT TERMS

Address compliance with each Permit term (by term number): terms 14 and 15: the watermaster has long been aware of these permits and has been providing service to the permittees, but only to the extent necessary to ensure their diversions do not injure other users, not to the extent of keeping diversion records; terms 16 and 17: Mr. Dick maintains that the 1 cfs fish bypass is NEVER an issue for several reasons: he must manage these diversions while still satisfying the needs of downstream diverters; if insufficient water is available the flow is augmented by releases from Lake Shastina. He understands, however that term 17 requires a device for actual measurement to enable him, us or others to tell at a glance whether the bypass is being met. He is to work with the permittee to come up with such device for each of their diversion dams. For this diversion (No. 166), this might mean adding a notch in top flashboard sized for a 1 cfs bypass. I told Mr. Scala that I would be writing to request that they provide plans for the measuring devices for both diversions along with an installation schedule (before the next irrigation season; probably in the fall after the current irrigation season), for my approval. I explained that we likely would not process their extension requests until such a plan and schedule are approved.

OTHER RIGHTS (show pertinent information)

Companion Permit 19163 (A26305) and Permit 19164 (A26306) were also inspected. Revocation is recommended for P19163, and an extension of time for diversion record-keeping is recommended for P19164. According to Mr. Dick, the Seldom Seen Ranch gets 924 ac-ft and the Hole-in-the-Ground Ranch 596 ac-ft under the Shasta River Adjudication (not verified - this is the water "banked" in Lake Shastina which the ranches can request each season on demand).

L11609 (A23767) covers two reservoirs on an adjacent ranch also owned by Emmerson. L4151 (A8809) covers a spring on the bank of the Shasta River between the A26306 and A26307 PODs. This water is apparently rediverted at the A26307 POD, but I was not aware of L4151 at the time of this inspection, and therefore did not discuss it with Mr. Dick. This matter should be looked into to ensure that there is no duplication in Mr. Dick's diversion measurements, i.e. credit given towards P19165 for water already covered by L4151.



↑ LOOKING ACROSS DAM (DITCH TO LIFT PUMPS FLOWS BEHIND KEITH DICK AND PETE SCALA)



POINT OF DIVERSION (No. 166 of Decree)
FLASHBOARD DAM

~ 12' WIDE x 6' HIGH

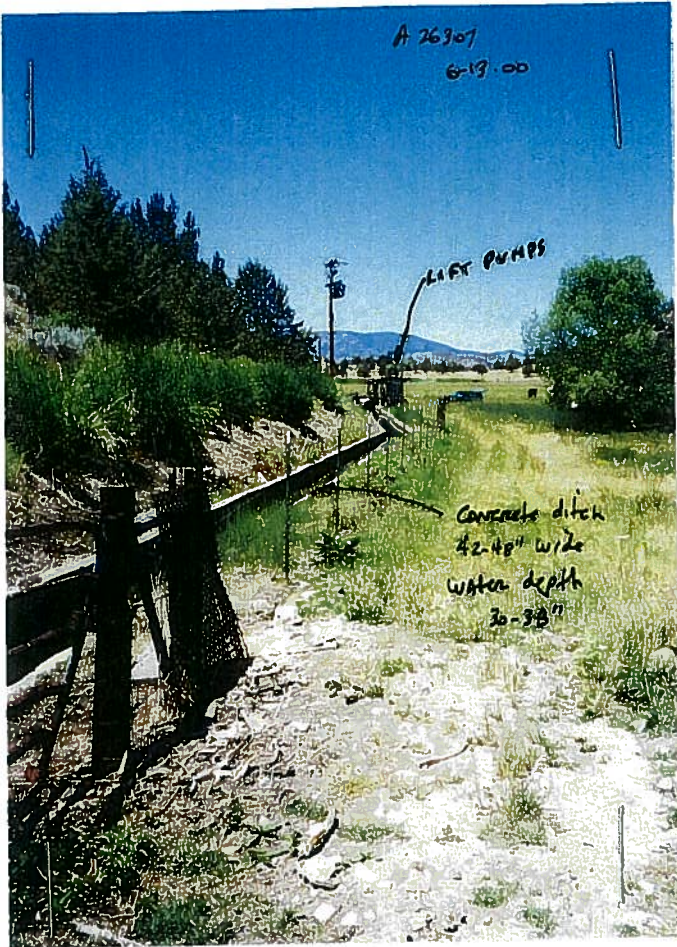
← LOOKING UPSTREAM

PERMIT 19165

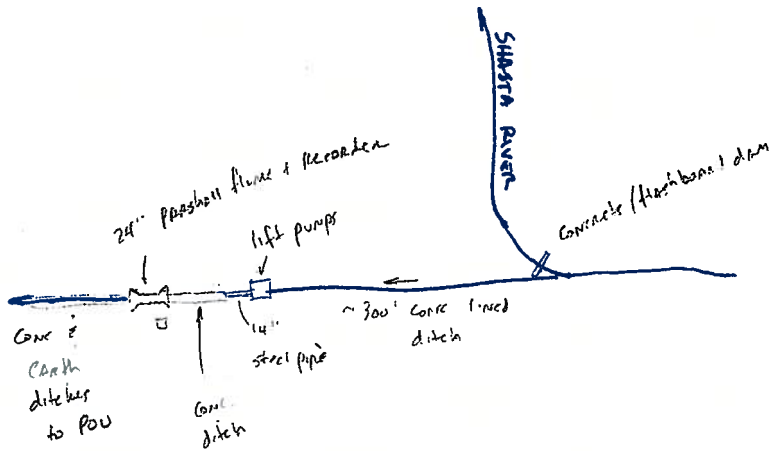
A 26307

6-13-00

WCS



CONCRETE LINED DITCH FROM DIVERSION DAM TO LIFT PUMPS



LIFT PUMPS (ELECTRIC CENTRIFUGAL)
 30HP US MOTORS HIGH THRUST
 W/ VERTILINE PUMP
 154P US MOTORS
 W/ LAYNE & BOWLER PUMP

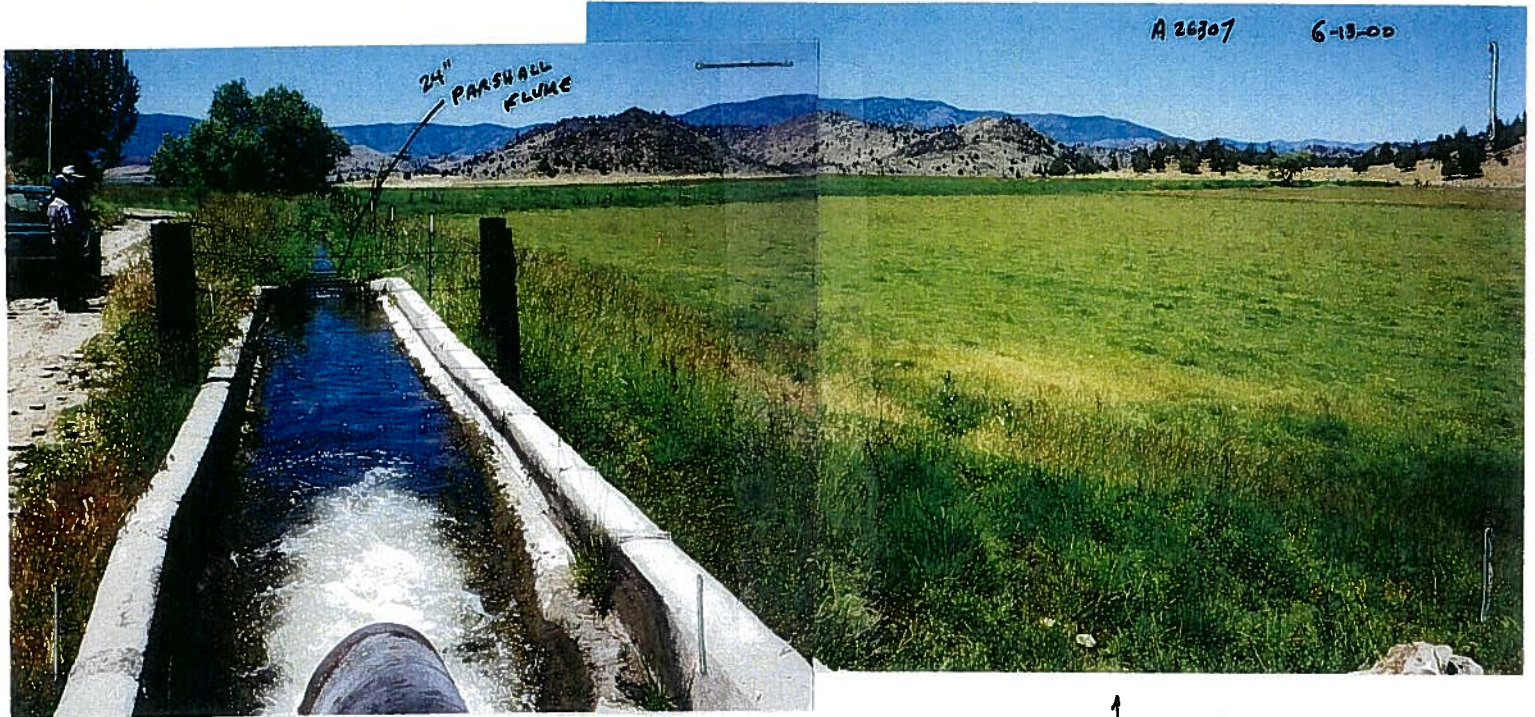
→ 14" STEEL TO CONCRETE DITCH

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6-13-00

WCS

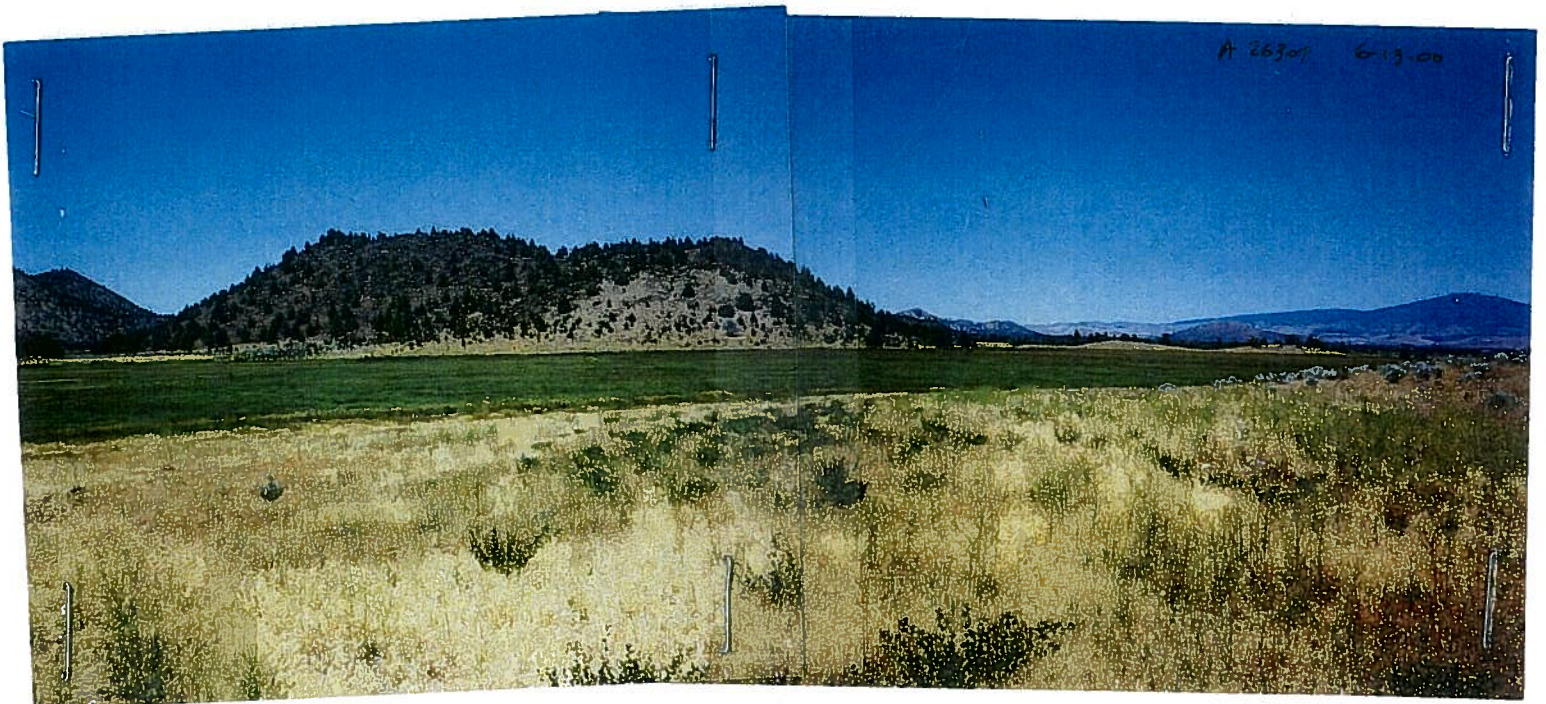


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24" PARSHALL FLUME

↑ LIFT PUMP DISCHARGE THENCE FLUME & DITCH SYSTEM

↑ PORTION OF POU FLOOD IRRIGATED HAY & PASTURE



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↑ PORTION OF POU (TOWARDS MIDDLE, LOOKING WEST)
FLOOD IRRIGATED PASTURE

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