

IN THE MATTER OF APPLICATIONS 29480) 29481, 29482, 1975 by Sierra
THROUGH 29501, 29706, 29793, 29794, 29795, 30071, 30427, 30984 AND 31753 TO APPROPRIATE WATER FROM AN UNDERGROUND SOURCE IN THE CLOVER'S AREA, LANDER COUNTY, NEVADA. Section 32, T.34N., R.45E., M.D.B. & M.

Applications 29480 through 29501 were filed on July 27, 1975 by Southern Pacific Land Co. to appropriate underground water. Each application is for 2.0 c.f.s. of water for irrigation and domestic purposes. NW 1/4 Section 32, T.34N., R.45E., M.D.B. & M. and the place of use is 130 acres within the NW 1/4 of said Section 32.

The points of diversion and the place of use under Applications 29480, 29481, 29482 and 29483 are within Section 5, T.34N., R.45E., M.D.B. & M. on May 17, 1977 by Sierra Pacific Land Co. The points of diversion and

The points of diversion and the place of use under Applications 29484, 29485, 29486 and 29487 are within Section 7, T.34N., R.45E., M.D.B. & M. within the NW 1/4 of Section 17, T.34N., R.45E., M.D.B. & M. and the place of use is

The points of diversion and the place of use under Applications 29488 and 29489 are within the NW 1/4 of Section 9, T.34N., R.45E., M.D.B. & M. and the place of use is within the NW 1/4 of Section 19, Sections 20, 21, 25 and 29, E4

The points of diversion and the place of use under Applications 29490, 29491, 29492 and 29493 are within Section 17, T.34N., R.45E., M.D.B. & M. on October 27, 1975 by Max Karabali who prayed that the application be denied on

The points of diversion and place of use under Applications 29494, 29495, 29496 and 29497 are within Section 19, T.34N., R.45E., M.D.B. & M. The water table within the

The points of diversion and the place of use under Applications 29498, 29499, 29500 and 29501 are within Section 29, T.34N., R.45E., M.D.B. & M. on the Sidwell and Conrad land. Their wells have

Applications 29706, 29793, 29794 and 29795 were filed by Wallace D. Whiting to appropriate underground water.

Application 29706 was filed on October 14, 1975 for 6.0 c.f.s. of water to irrigate 320 acres. The point of diversion is within the NW 1/4 NE 1/4 Section 4, T.34N., R.45E., M.D.B. & M. The place of use is the NW 1/4 of said Section 4. The application was denied because of the water shortage.

Applications 29793, 29794 and 29795 were filed on November 20, 1975, each for 6.0 c.f.s. of water for irrigation. The place of use and point of diversion are within Section 33, T.35N., R.45E., M.D.B. & M. and that there has never been a substantial water survey.

Application 30071 was filed on March 10, 1976 by Ernest L. and Verna M. Barrows to appropriate 5.4 c.f.s. of underground water for irrigation and domestic purposes. The point of diversion is within the SE 1/4 NW 1/4 Section 20, T.34N., R.45E., M.D.B. & M., and the place of use is 317.6 acres within the NW 1/4 of said Section 20.

Application 30427 was filed on July 27, 1976 by Sierra Pacific Power Co. to appropriate 4.0 c.f.s. of underground water for industrial and domestic purposes. The point of diversion is within the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 31, T.35N., R.45E., M.D.B. & M. and the place of use is within the E $\frac{1}{2}$ Section 19; Sections 20, 21, 28 and 29; E $\frac{1}{2}$ Section 30, T.34N., R.43E., M.D.B. & M.

Application 30984 was filed on January 5, 1977 by Leon E. and Norma G. Taylor to appropriate 2.2 c.f.s. of underground water for irrigation and domestic purposes. The point of diversion is within the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 32, T.34N., R.45E., M.D.B. & M. and the place of use is 130 acres within the NW $\frac{1}{4}$ of said Section 32.

Application 31753 was filed on May 19, 1977 by Sierra Pacific Power Co. to change the point of diversion and place of use of 2.0 c.f.s. of the underground water appropriated under Permit 29006 for industrial purposes. The point of diversion under Permit 29006 is within the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 17, T.35N., R.44E., M.D.B. & M. and the place of use is Section 25, T.34N., R.43E., M.D.B. & M. The point of diversion under Application 31753 is within the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 3, T.32N., R.44E., M.D.B. & M. and the place of use is within the E $\frac{1}{2}$ Section 19; Sections 20, 21, 28 and 29; E $\frac{1}{2}$ Section 30, T.35N., R.43E., M.D.B. & M.

Application 29487 was protested on October 27, 1975 by Max Lenaburg who prayed that the application be denied on the following grounds:

All of the wells in this area have lowered on the water table within the last five years.

I worked for the Twenty-Five Corp. for four years and have first hand experience with the wells on the Sidwell and Conrad land. Their wells have given endless troubles for some time. They have run out of water when they are all pumping at one time.

The Conrad Section will not be farmed next year because of the water situation.

Application 29489 was protested on October 17, 1975 by Robert J. Phillips who prayed that the application be denied on the following grounds:

The one main reason for this protest of the additional wells in this area is the fact that there has never been a substantial water survey taken in this area. The farms that are in this area have yet to be fully developed, where as most of these half section lots have only one well on them at this time and to be fully efficient they should have two, but how will this be possible with the granting of twenty-two well permits when the

water table in this area is not yet established.

Another point I wish to make, is the FACT that the standing water level of my irrigation well has dropped ten feet in the last five years.

Application 29493 was protested on October 17, 1975 by E. L. Barrows who prayed that the application be denied on the following grounds:

I feel the farmers already developing ground in this district are already in trouble and if more wells are brought in, they will be in trouble also. Most of the farmers out here are only one-half developed; as they go on they will need more water.

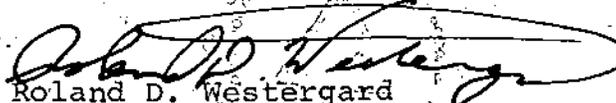
A field investigation in the matter of Applications 29480 through 29501 was held on March 11, 1976. A Report of the Field Investigation is on file in the office of the State Engineer.

Measurements and affidavits indicate lowering water tables in the area of concentrated underground water rights and pumpage where all of the pending applications except Application 31753 are located. Application 31753 is to change a point of diversion to within one-half mile of existing underground water rights.

RULING

Applications 29480 through 29501, 29706, 29793, 29794, 29795, 30071, 30427, 30984 and 31753 are denied and the protests upheld on the grounds that to grant additional water rights in these concentrated areas would conflict with existing rights and threaten to prove detrimental to the public interest.

Respectfully submitted,


Roland D. Westergard
State Engineer

RDW/JC/bl

Dated this 7th day

of December, 1977.

IN THE MATTER OF APPLICATIONS)	
29480 THROUGH 29501 FILED BY)	
SOUTHERN PACIFIC LAND COMPANY)	REPORT OF FIELD
TO APPROPRIATE UNDERGROUND)	
WATER IN THE CLOVERS AREA,)	INVESTIGATION
LANDER COUNTY, NEVADA)	

Applications 29480 through 29501 were filed on June 27, 1975 by Southern Pacific Land Co. to appropriate underground water for irrigation and domestic purposes in the Clovers area north of Battle Mountain. Each application is for 2.0 c.f.s. The points of diversion and places of use are as follows:

<u>Application</u>	<u>Point of Diversion</u>	<u>Place of Use</u>
29480	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 5, T34N,R45E MDM	Said Sec. 5
29481	NE $\frac{1}{4}$ NW $\frac{1}{4}$ said Sec. 5	"
29482	NE $\frac{1}{4}$ SW $\frac{1}{4}$ said Sec. 5	"
29483	NE $\frac{1}{4}$ SE $\frac{1}{4}$ said Sec. 5	"
29484	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 7, T34N,R45E, MDM	Said Sec. 7
29485	SE $\frac{1}{4}$ NW $\frac{1}{4}$ said Sec. 7	"
29486	SE $\frac{1}{4}$ SW $\frac{1}{4}$ said Sec. 7	"
29487	SE $\frac{1}{4}$ SE $\frac{1}{4}$ said Sec. 7	"
29488	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 9, T34N,R45E, MDM	W $\frac{1}{2}$ said Sec. 9
29489	NW $\frac{1}{4}$ SW $\frac{1}{4}$ said Sec. 9	"
29490	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 17, T34N, R45E, MDM	Said Sec. 17
29491	NW $\frac{1}{4}$ NW $\frac{1}{4}$ said Sec. 17	"
29492	NW $\frac{1}{4}$ SW $\frac{1}{4}$ said Sec. 17	"
29493	NW $\frac{1}{4}$ SE $\frac{1}{4}$ said Sec. 17	"
29494	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 19, T34N, R45E, MDM	Said Sec. 19
29495	SE $\frac{1}{4}$ NW $\frac{1}{4}$ said Sec. 19	"
29496	SE $\frac{1}{4}$ SW $\frac{1}{4}$ said Sec. 19	"
29497	SE $\frac{1}{4}$ SE $\frac{1}{4}$ said Sec. 19	"
29498	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 29, T34N, R45E, MDM	Said Sec. 29
29499	NW $\frac{1}{4}$ NW $\frac{1}{4}$ said Sec. 29	"
29500	NW $\frac{1}{4}$ SW $\frac{1}{4}$ said Sec. 29	"
29501	NW $\frac{1}{4}$ SE $\frac{1}{4}$ said Sec. 29	"

Application 29487 was protested on October 27, 1975 by Max Lenaburg on the following grounds:

"All of the wells in this area have lowered on the water table with-in the last five years.

"I worked for the Twenty-Five Corp. for four years and have first hand experience with the wells on the Sidwell and Conrad land. There wells have given endless troubles for some time. They have run out of water when they are all pumping at one time.

"The Conrad Section will not be farmed next year because of the water situation."

Application 29489 was protested on October 17, 1975 by Robert J. Phillips on the following grounds:

"The one main reason for this protest of the additional wells in this area is the fact that there has never been a substancial water survey taken in this area. The farms that are in this area have yet to be fully developed, where as most of these half section lots have only one well on them at this time and to be fully efficient they should have two, but how will this be possible with the granting of twenty-two well permits when the water table in this area is not yet established.

"Another point I wish to make is the FACT that the standing water level of my irrigation well has dropped ten feet in the last five years."

Application 29493 was protested on October 17, 1975 by E. L. Barrows on the following grounds:

"I feel the farmers already developing ground in this district are already in trouble. and if more wells are brought in they will be in trouble also. Most of the farmers out here are only one half developed as they go on they will need more water."

A field investigation was held on March 11, 1976. Present at the investigation were:

Report of Field Investigation
Applications 29480 through 29501
Page 3

<u>Name</u>	<u>Representing</u>
Ted Longseth	Southern Pacific Land Co.
Max Sakato	" " " "
Max Lenaburg	Protestant
E. L. Barrows	"
Brenda Phillips	"
Tom Defoor	"
Leon E. Taylor	Taylor Farms
Greg Taylor	" "
C. D. Morris	John Day Hardware Co.
Bobby W. Hooper	Lander Co. Soil Conservation Dist.
Don Jones	Agricultural Stabilization & Conser- vation Service
Ralph Gamboa	Division of Water Resources
Wayne Testolin	" " " "
Tim Holt	" " " "
Jack Cardinalli	" " " "

The applications and protests were reviewed by Jack Cardinalli.

Greg^g Taylor said that his wells in Secs. 30 and 32 were pumping from 200' and surging.

Several of the water users commented that there were no good water bearing strata in the area and that fine sands adversely affected pumping operations.

Tom Defoor said that electrologs of deep test holes at his place in Sec. 30 indicate highly saline water occurs at about 550'.

Don Jones, Leon Taylor, E. L. Barrows and Bobby Hooper all made statements to the effect that they thought the prudent course of action would be to defer additional ground water appropriations until full development has been reached by those now pumping in the area. Then, if conditions indicate adequate water, new permits could be issued.

Ted Longseth mentioned that hydrologic reports have indicated the possibility of substantial amounts of underground water flowing into the Clovers area from Rock Creek Valley to the northeast.

Jack Cardinalli said the Water Resources Bulletin #32 on the hydrology of the Humboldt River system would be a major source of hydrologic data that would be used in acting on the applications. Hydrologic reports prepared for Southern Pacific Land Co. and Sierra Pacific Power Co. and measurements of static and pumping water levels would also be important and be considered.

Water Resources Bulletin #32 - Hydrologic Reconnaissance of the Humboldt River Basin, Nevada estimates that 71,900 ac-ft/yr of water is lost through evapotranspiration from the Valmy section of the Humboldt River Basin which is comprised of the Clovers area, Kelley Creek area and Pumpnickel Valley. 32,500 ac-ft/yr of the evapotranspiration is supplied by surface water. The recharge to the ground water reservoir from precipitation is estimated to be 18,000 ac-ft/yr. To balance the hydrologic budget for the Valmy section an additional 22,000 ac-ft/yr of recharge is needed for the ground water reservoir. Report #32 suggests that underflow from Rock Creek Valley is the most likely source of underflow to the Valmy section but higher than estimated underflows from the Reese River Valley and Argenta section are also mentioned as a possible source of ground water recharge to the Valmy section.

Hydro-Search, consulting hydrologists for Southern Pacific Land Co., has estimated that 30,000 to 50,000 ac-ft/yr of ground water is recharged to and evapotranspired from the Clovers area.

Certified water rights exist to pump 12,800 ac-ft/yr from the Clovers area. An additional 16,600 ac-ft/yr may be developed under existing permits.

Some static water level measurements have been made in the Clovers area since 1968. These measurements are spotty and incomplete but tend to corroborate the protestants' contention that the water table is lowering in the areas where pumpage occurs.

William F. Guyton and Associates, consulting hydrologists for Sierra Pacific Power Co., estimate that the pumping lift in the Clovers area averages about 200'. This is based on electric power consumption from August 1971 to August 1974.

Report of Field Investigation
Applications 29480 through 29501
Page 5

Pumpage for the Clovers area, also using power consumption figures, was estimated to be 2,000 ac-ft in 1972 and 1973 and 3,500 ac-ft in 1974.

Respectfully submitted,

JACK CARDINALLI

Jack Cardinalli
Hydraulic Engineer

JC/lk

Dated this 17th Day
of June, 1976.