

STATE OF CALIFORNIA—RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

Borrego Valley

Region 7
Investigation 229
County SD Near _____

Ground Water Analyses

Basin Borrego Valley
DWR No. 125/6E-33D1 B&M
Other Nos. 10S/6E-33D1

Use _____ Depth 500 Date Completed _____ Capacity (gpm) _____
Drawdown _____ Perforations _____ Size Casing and Depth _____
Gravel Packed _____ Seal _____ At What Depth _____ Log _____ Water Level Record _____
Surface Elev. _____ Datum _____ Source of Information _____

Lab./Field No.	155117226		R-18419286						
Sampled By	Jim Pine		Rodriguez						
Date Collected	5-23-63		1-29-64						
Date Analyzed	6-12-63		3-9-64						
Temperature/pH	7.9 7.7		7.2 7.7						
EC x 10 ⁶ @ 25° C	1203		2765						
Constituents in	epm	% RV	ppm	epm	% RV	ppm	epm	% RV	ppm
Cations:									
Ca	6.09		122	13.42		269			
Mg	1.73		21	2.50		46			
Na	4.00		92	5.24		114			
K	0.13		5.2	0.16		6.3			
Total Cations	11.95			22.62					
Anions:									
CO ₂	0		0	0		0			
HCO ₃	2.26		138	2.92		178			
SO ₄	4.36		209	9.06		435			
CL	2.59		92	5.16		183			
NO ₃	2.71		168	5.61	*	348			
F	0.02		0.46	0.03		0.6			
Total Anions	11.94			22.78					
Balance			0.05			0.10			
Boron									
Silica			32						
Total Solids/Sum	765			1222					
Per Cent Sodium		33			26				
Hardness: Total/NC	391		278	261		715			
Laboratory/Chemist	5050	Tarm		5050	Tarin				
Copied: Date/By									

REMARKS: 1. clear no odor ppn
 2. " " " " P.C. tap on disch line
 3. * Extremely high nitrate - Devarda's method as check
 4. KEY PUNCHED KEY PUNCHED

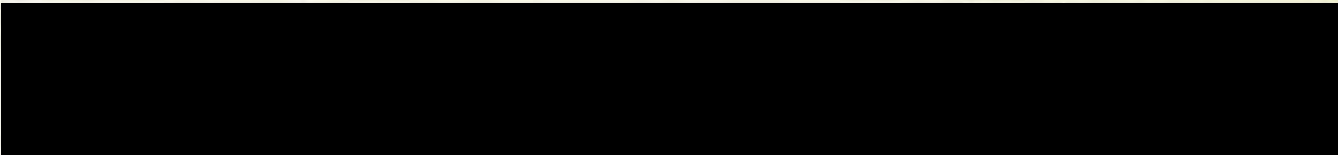
STATE OF CALIFORNIA—RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

Borrego Valley

Region 7
 Investigation 229
 County S.D. Near _____

Ground Water Analyses

Basin Borrego Valley
 DWR No. 105/6E-33D1 B&M
 Other Nos. 105/6E-33D1



Use _____ Depth 208' Date Completed _____ Capacity (gpm) _____ SWL _____
 Drawdown _____ Perforations _____ Size Casing and Depth _____
 Gravel Packed _____ Seal _____ At What Depth _____ Log _____ Water Level Record _____
 Surface Elev. _____ Datum _____ Source of Information _____

Lab./Field No.	<u>155151 7226</u>											
Sampled By	<u>Jim Piro</u>											
Date Collected	<u>5-23-63</u>											
Date Analyzed	<u>6-12-63</u>											
Temperature/pH	<u>79 7.7</u>											
EC x 10 ⁶ @ 25° C	<u>1203</u>											
Constituents in	epm	% RV	ppm	epm	% RV	ppm	epm	% RV	ppm	epm	% RV	ppm
Cations:												
Ca	<u>6.09</u>		<u>122</u>									
Mg	<u>1.73</u>		<u>31</u>									
Na	<u>4.00</u>		<u>92</u>									
K	<u>0.13</u>		<u>5.2</u>									
Total Cations	<u>11.95</u>											
Anions:												
CO ₃	<u>0</u>		<u>0</u>									
HCO ₃	<u>2.26</u>		<u>138</u>									
SO ₄	<u>4.36</u>		<u>209</u>									
CL	<u>2.59</u>		<u>92</u>									
NO ₃	<u>2.71</u>		<u>168</u>									
F	<u>0.02</u>		<u>0.46</u>									
Total Anions	<u>11.94</u>											
Balance												
Boron			<u>0.05</u>									
Silica			<u>32</u>									
Total Solids/Sum	<u>765</u>		<u>(810)</u>									
Per Cent Sodium			<u>33</u>									
Hardness: Total/NC	<u>391</u>		<u>278</u>									
Laboratory/Chemist	<u>5050</u>		<u>Tanen</u>									
Copied: Date/By												

REMARKS: 1. clear no odor ppt
 2.
 3.
 4.

DEPARTMENT OF WATER RESOURCES

Region 7
 Investigation _____
 County San Diego Near _____

Ground Water Analyses

Basin Borrego Valley
 DWR No. 103/6th-7701 B&M
 Other Nos. _____



Use _____ Depth 50' Date Completed 11-7-50 Capacity (gpm) 400 est SWL _____
 Drawdown _____ Perforations _____ Size Casing and Depth 1 1/2" - 500'
 Gravel Packed _____ Seal _____ At What Depth _____ Log _____ Water Level Record _____
 Surface Elev. _____ Datum _____ Source of Information _____

Lab./Field No.	1970 7-1617			7720 6820			R-3505 8187			277E 4131		
Sampled By	Gardner, DWR			AD Joy			C. Von Berg			de Bruin		
Date Collected	4-7-52			3-6-57			8-17-60			5-17-62		
Date Analyzed	7-9-52			3-20-57			10-21-60			6-12-62		
Temperature/pH	70 8.1			79 7.5			80 7.8			78 8.0		
EC x 10 ⁴ @ 25° C	1087			1020			1000			1320		
Constituents in	e	% RV	ppm	e	% RV	ppm	e	% RV	ppm	e	% RV	ppm
Cations:												
Ca	7.11		143	6.19		124	5.15		103	7.84		157
Mg	1.73		27	1.89		23	1.30		16	2.04		24
Na	3.47		80	3.13		72	3.54		87	4.25		98
K	0.1		4	0.133		5.2	0.12		4.7	0.13		5.0
Li									0.022			
Total Cations	12.11			11.31			10.11			14.26		
Anions:												
CO ₃	0.08		2	0		0	0		0	0		0
HCO ₃	2.60		159	2.18		151	2.20		131	2.61		160
SO ₄	3.08		147	4.42		212	3.78		182	4.59		235
CL	2.90		103	2.45		87	2.05		73	3.01		156
NO ₃	3.31		207	2.19		136	2.00		124	3.52		218
F			0.6	0.016		0.3	0.03		0.6	0.01		0.1
Total Anions	11.92			11.56			10.06			14.04		
Balance												
Boron			0.06			0.06			0.04			0.08
Silica						30			30			30
Total Solids/Sum	882 (786)			800 (764)			667 (680)			1142 (952)		
Per Cent Sodium	28			(28)			35			30		
Hardness: Total/NC	(438)			(404)			323 213			494 363		
Laboratory/Chemist	SB			SB Shaw			CFS Shatto			L. SAG DLE		
Copied: Date/By	11-2-60 81									6-29-62 CH		

REMARKS: 1. Pumping clear. P.c. pump disch. Murky sediment
 2. " " " " "
 3. Clear, npg. on arrival, P.c. tap on disch. line
 4. Clear, odor less - npg

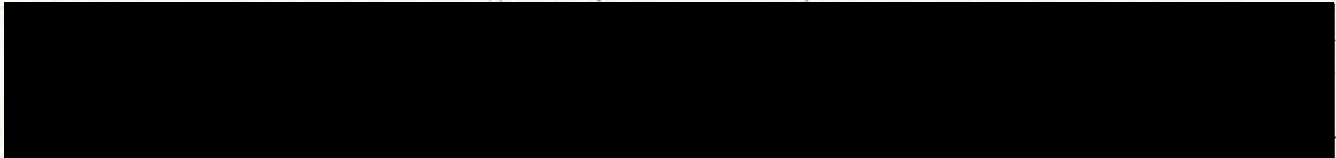
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Basin Borrego Valley
 DWR No. 10S/6E-33D1 B&M
 Other Nos. 10S/6E-33D1



Use _____ Depth 300' Date Completed _____ Capacity (gpm) _____ SWL _____
 Drawdown _____ Perforations _____ Size Casing and Depth _____
 Gravel Packed _____ Seal _____ At What Depth _____ Log _____ Water Level Record _____
 Surface Elev. _____ Datum 5050 Source of Information _____

Lab./Field No.	155151 7226			R-184 19286								
Sampled By	Jim Pine			Rodriguez								
Date Collected	15-23-63			1-29-64								
Date Analyzed	6-12-63			3-9-64								
Temperature/pH	79 7.7			72 7.7								
EC x 10 ⁶ @ 25° C	1203			2165								
Constituents in	epm	% RV	ppm	epm	% RV	ppm	epm	% RV	ppm	epm	% RV	ppm
Cations:												
Ca	6.09		122	13.42		269						
Mg	1.73		21	3.80		46						
Na	4.00		92	6.24		144						
K	0.13		5.2	0.16		6.3						
Total Cations	11.95			23.62								
Anions:												
CO ₂	0		0	0.02		0						
HCO ₃	2.26		138	2.92		178						
SO ₄	4.36		209	9.06		435						
CL	2.59		92	5.16		183						
NO ₃	2.71		168	15.61	*	348						
F	0.02	6.5	-0.46	0.03		0.6						
Total Anions	11.94			22.78								
Balance												
Boron			0.05			0.19						
Silica			32									
Total Solids/Sum	765 (810)			1822 1520								
Per Cent Sodium	-33 ✓			26								
Hardness: Total/NC	-391 ✓ 478			861 715								
Laboratory/Chemist	5050 Tamm			5050 Tamm								
Copied: Date/By												

REMARKS: 1. clear no odor ppq-
 2. " " " " P.C. tap on disch line
 3. * Extremely high nitrate - Devarda's method s- check

