

Appendix 2D – Miscellaneous Groundwater Reports and Data



Figure 2-6. Map showing locations of piezometers and underdrains (vault) at the Big Canyon Reservoir.

CITY OF NEWPORT BEACH

Big Canyon Reservoir

WATER TABLE REPORT

FOR THE YEAR 1980

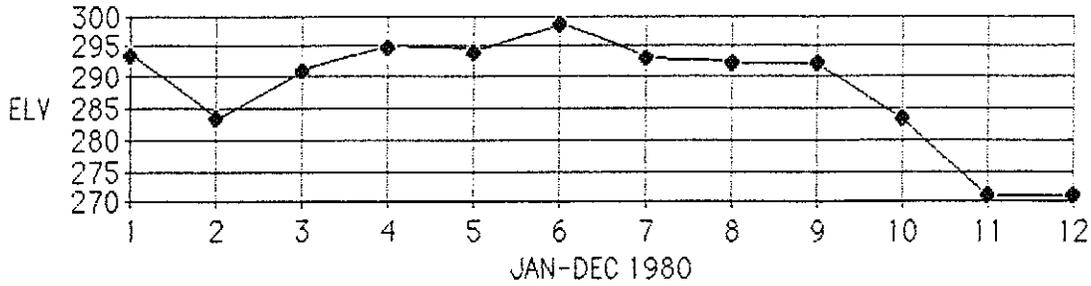
1980 BIG CANYON RESERVOIR READINGS

1980 PIEZOMETER READINGS FOR BIG CANYON RESERVOIR

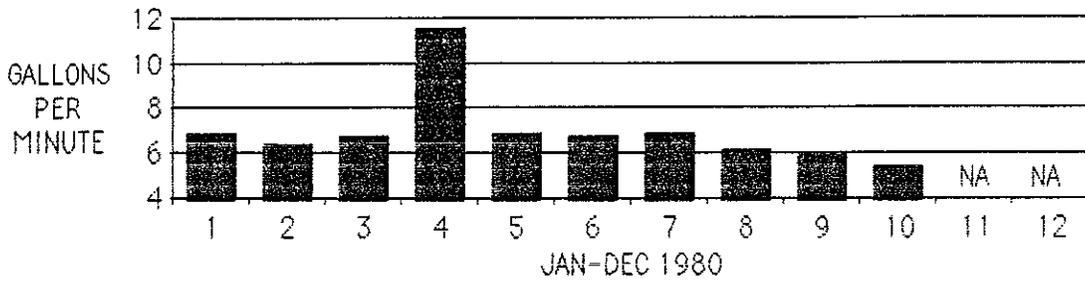
	SL-1	SL-2	G-26	H-30	H-35	H-36	H-37	H-38	H-39	I-40	I-41
JAN	285.8	260.8	269.6	280.8	284.2	265.7	272.3	281.8	276.9	285.3	285.2
FEB	284	259.6	270.8	281.8	284.7	265.4	272	281.4	276.9	283.6	285
MAR	285.9	259.6	270.6	281.1	280.2	266.9	272.2	281.8	277.4	286.2	286.1
APR	288.2	259.3	270.1	281.3	285.2	266.7	272.5	282.3	277.4	287.9	287.3
MAY	289.3	259.3	269.9	281.5	285	266.7	272.7	282.2	277.3	288.7	287.9
JUN	290.4	259.5	270.2	281.7	285.2	267.3	273	282.3	277.3	287.7	288.4
JUL	288	259.6	270.2	281.5	285.8	266.6	273	282.7	277.3	287.8	287.8
AUG	287.6	259.3	270.1	281	285.4	266.3	272.9	282.5	277.3	287.4	287.3
SEPT	286.3	259.3	269.8	281.2	285.2	266.4	272.9	282.4	277.3	287.3	287.2
OCT	284.1	259.3	269.9	280.7	284.7	264.5	272.4	281.2	275.9	283.7	286.4
NOV	280.7	258.3	269.8	279.7	284.2	263.1	271.6	280.1	275.7	281.8	285.3
DEC	281	269.1	269.7	273.1	282.9	262.4	271.7	282.9	275.6	281	284.4

EAST UNDERDRAIN FLOW	WEST UNDERDRAIN FLOW	AVERAGE SURFACE ELEVATION	TOTAL RAINFALL IN INCHES
6.9	5.7	293.7	7.11
6.4	7.2	283.4	7.67
6.8	7.1	291.2	5.93
11.6	5.3	295.1	0.61
6.9	6.7	294.3	0.17
6.8	7.4	298.9	0
6.9	7.6	293.1	0
6.2	7	292.3	0
6	6.9	292.4	0
5.5	6.7	283.4	0
0	12.5	271	0
0	0	271	0.9

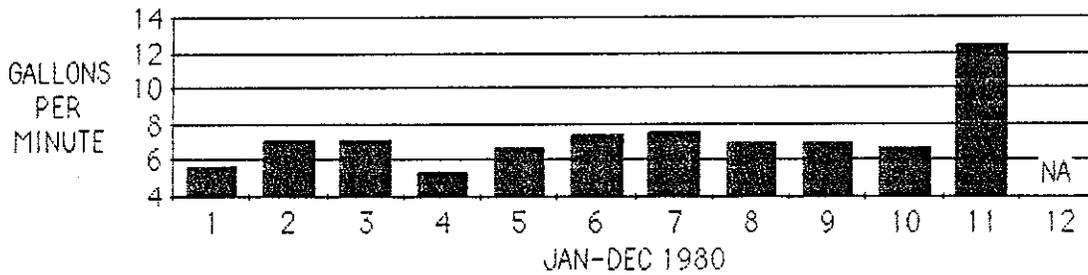
BCR SURFACE ELEVATION



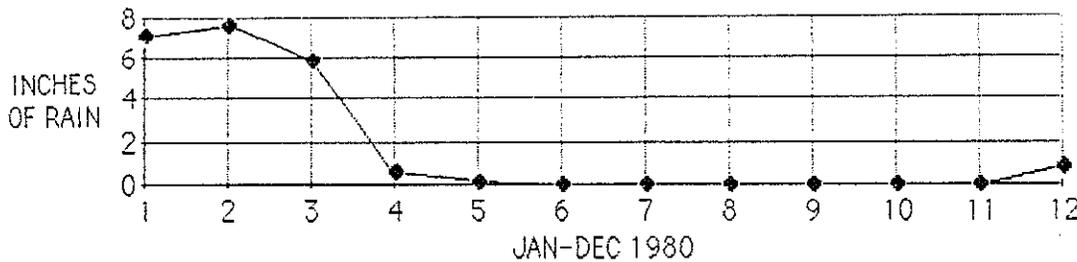
EAST UNDER DRAIN FLOW



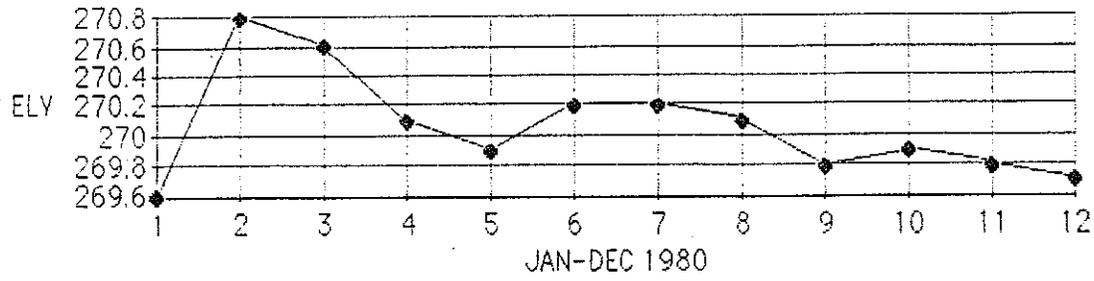
WEST UNDER DRAIN FLOW



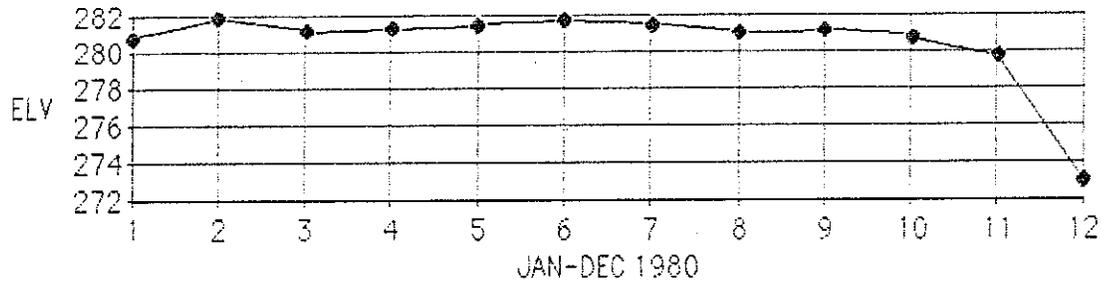
RAINFALL



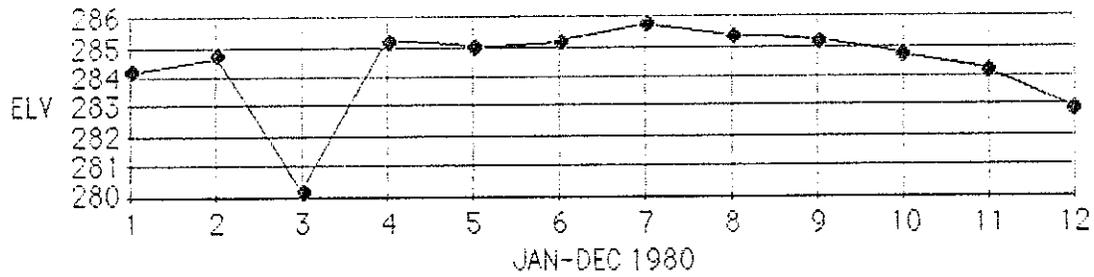
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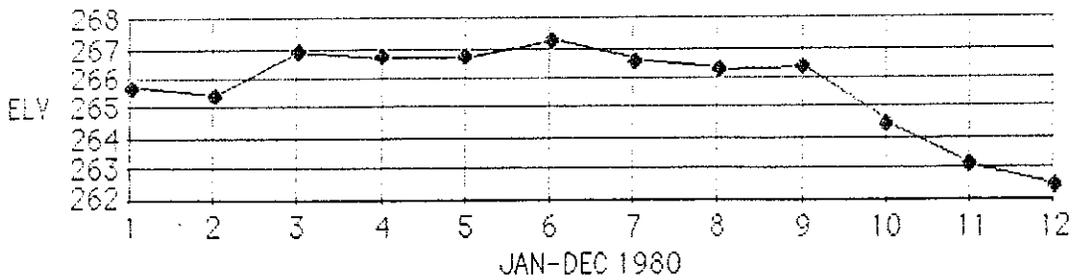
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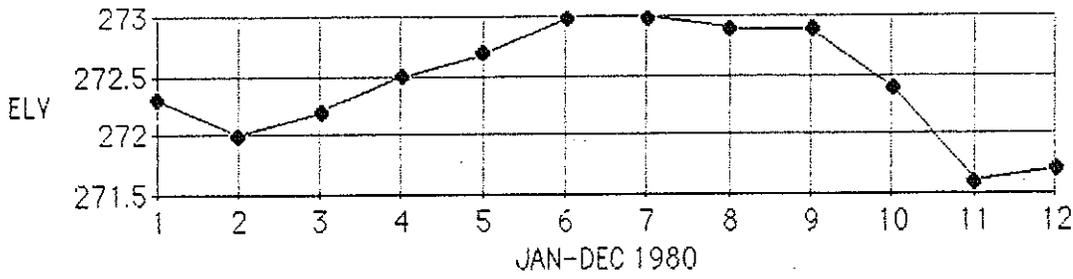
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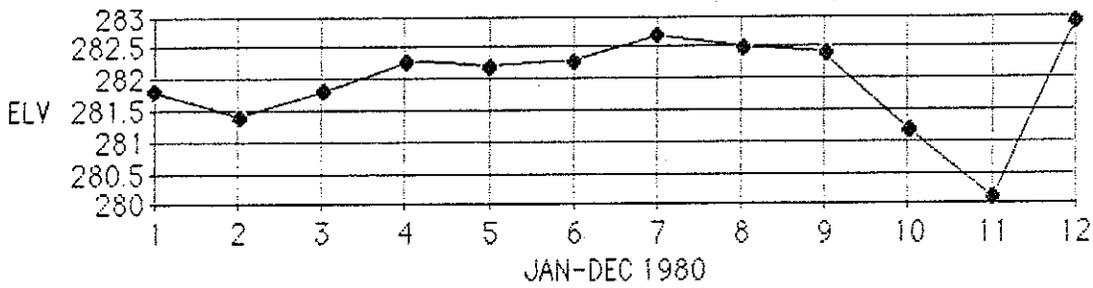
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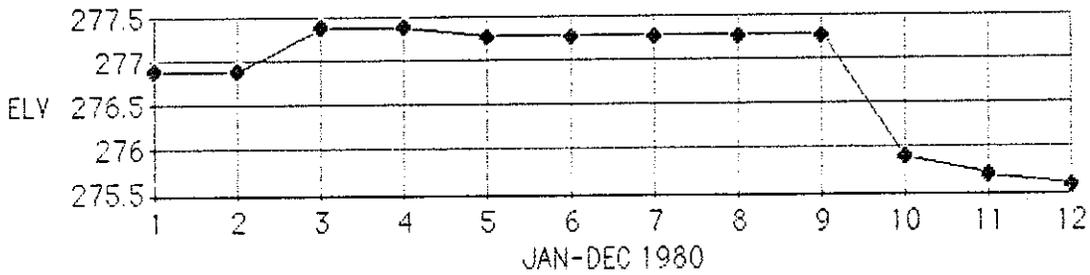
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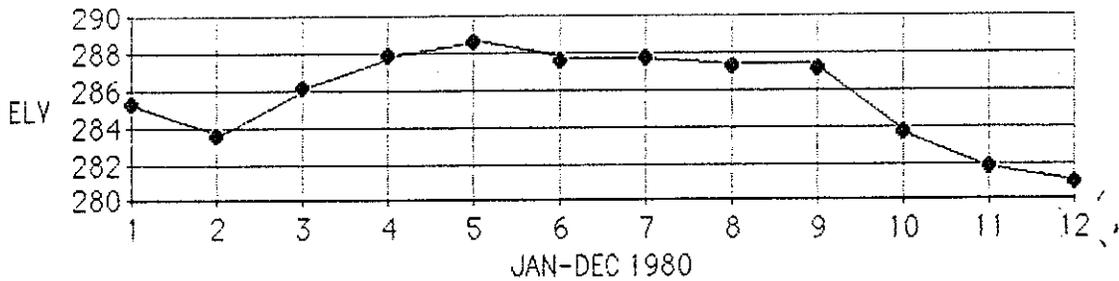
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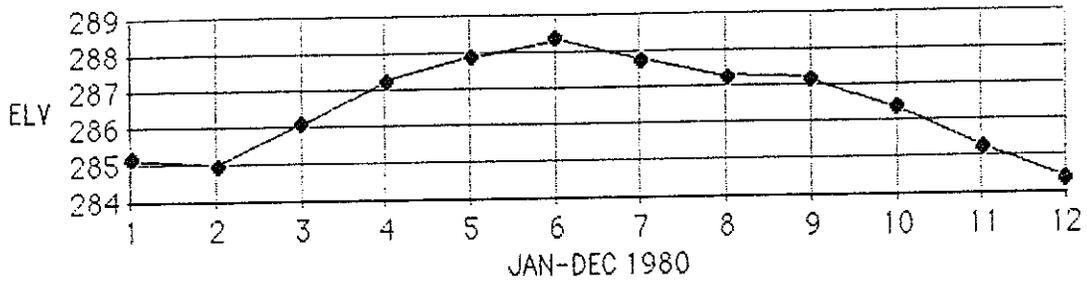
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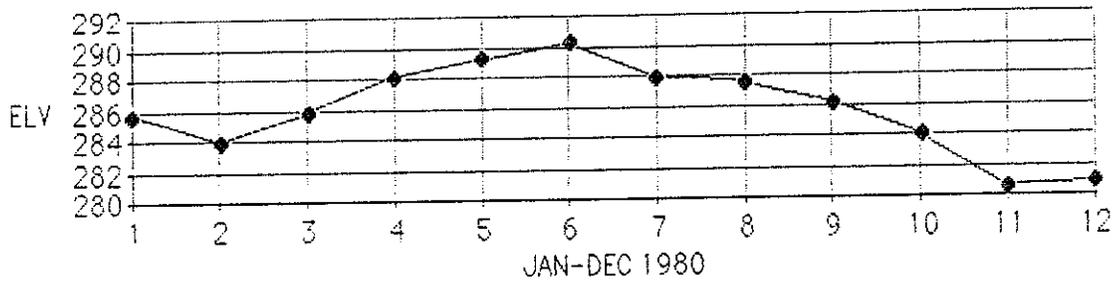
I-40



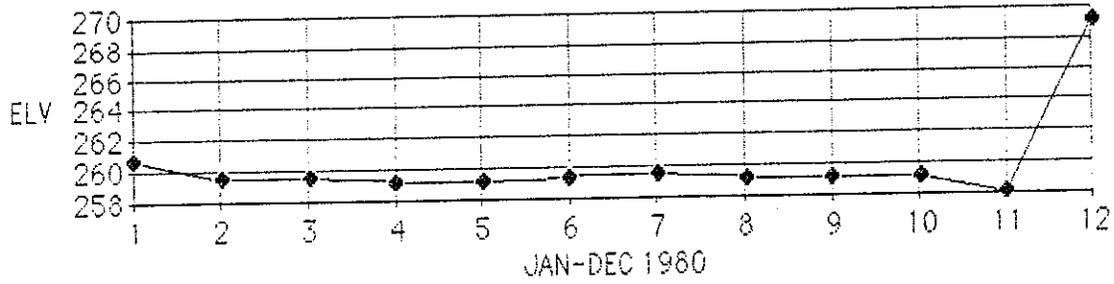
I-41

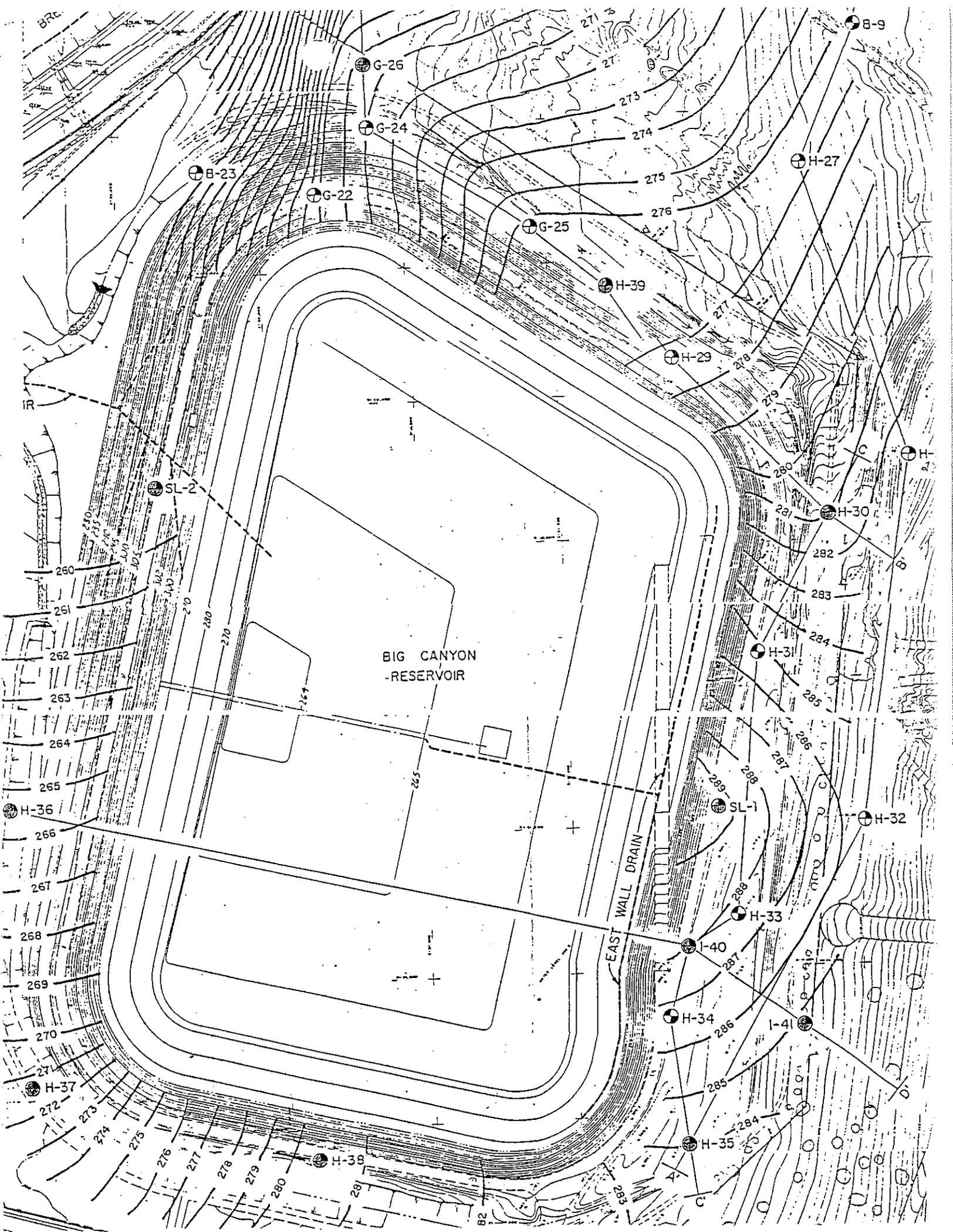


SL-1



SL-2

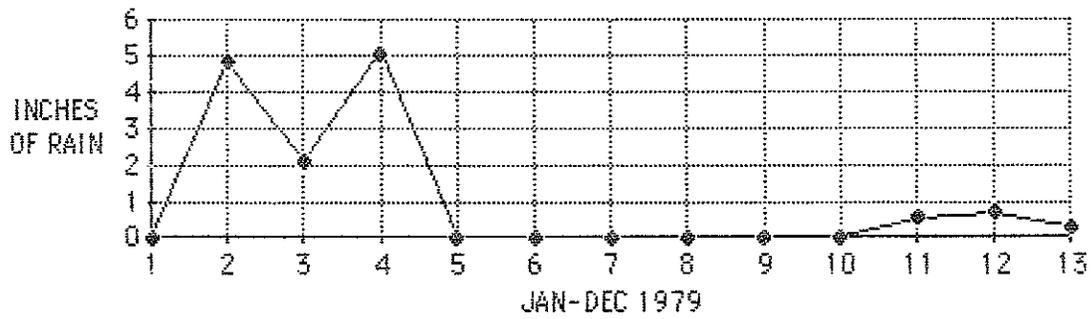




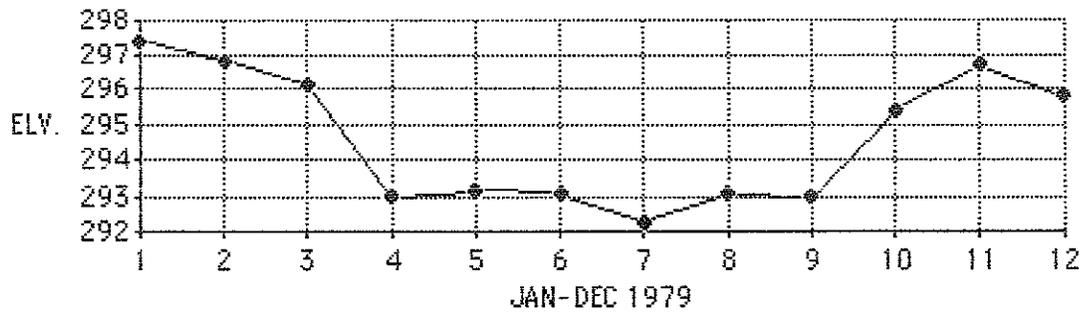
1980 PIEZOMETERS

	L	M	N	O	P	Q
1			EAST	WEST	AVERAGE	TOTAL
2			UNDERDRAIN	UNDERDRAIN	SURFACE	RAINFALL
3	I-41		FLOW	FLOW	ELEVATION	IN INCHES
4	285.2		6.9	5.7	293.7	7.11
5	285		6.4	7.2	283.4	7.67
6	286.1		6.8	7.1	291.2	5.93
7	287.3		11.6	5.3	295.1	0.61
8	287.9		6.9	6.7	294.3	0.17
9	288.4		6.8	7.4	298.9	0
10	287.8		6.9	7.6	293.1	0
11	287.3		6.2	7	292.3	0
12	287.2		6	6.9	292.4	0
13	286.4		5.5	6.7	283.4	0
14	285.3		0	12.5	271	0
15	284.4		0	0	271	0.9

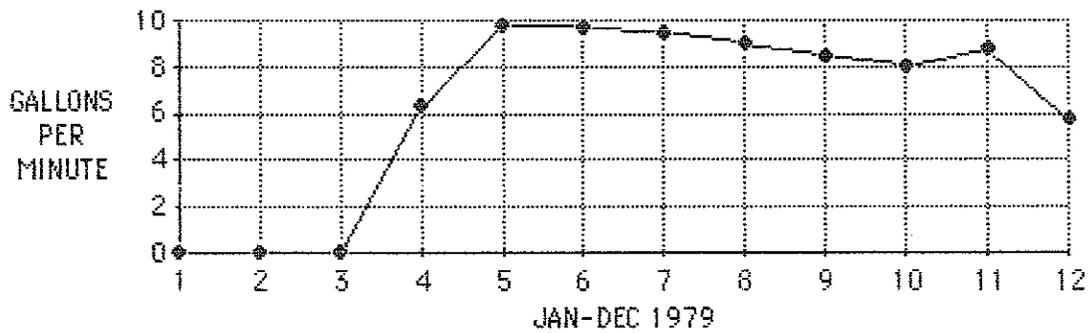
RAINFALL



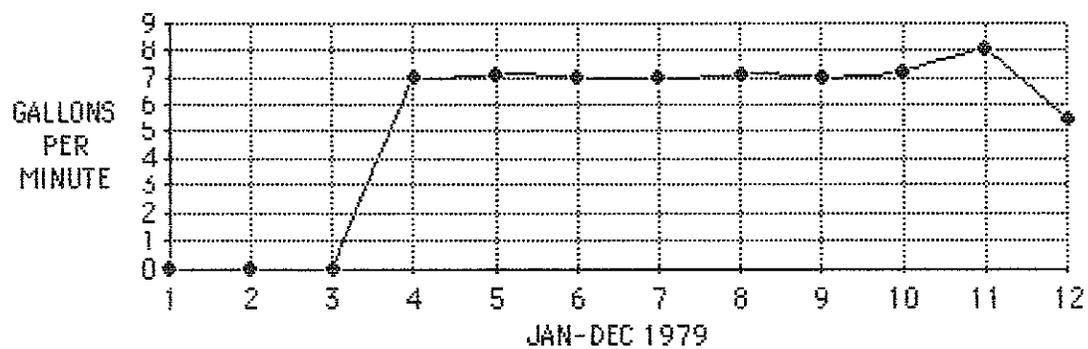
SURFACE ELEVATION



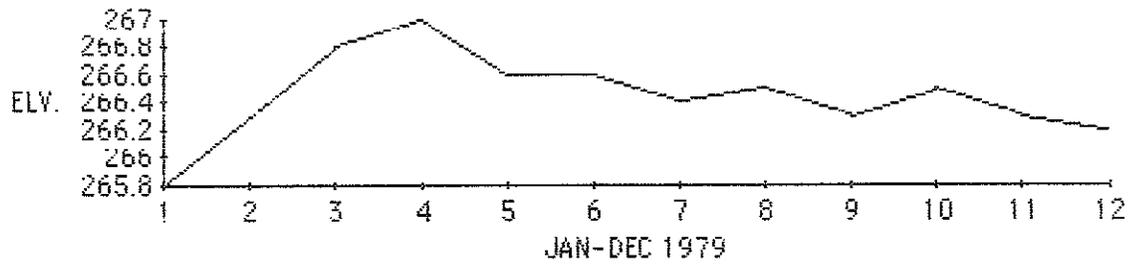
EAST UNDERDRAIN READINGS



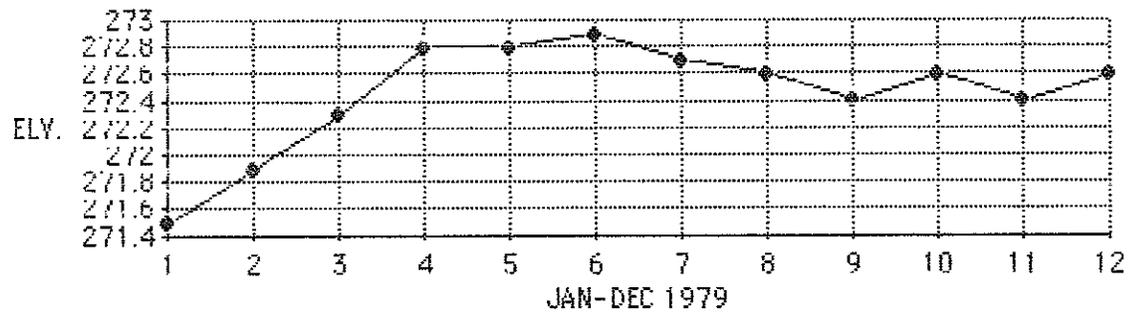
WEST UNDERDRAIN READINGS



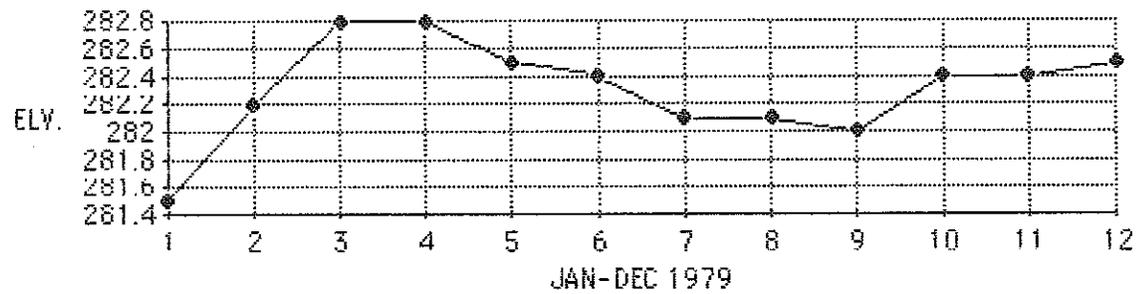
H-36



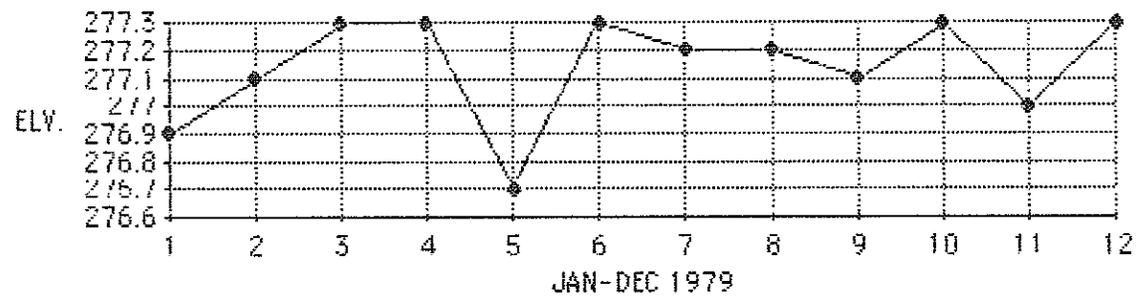
H-37



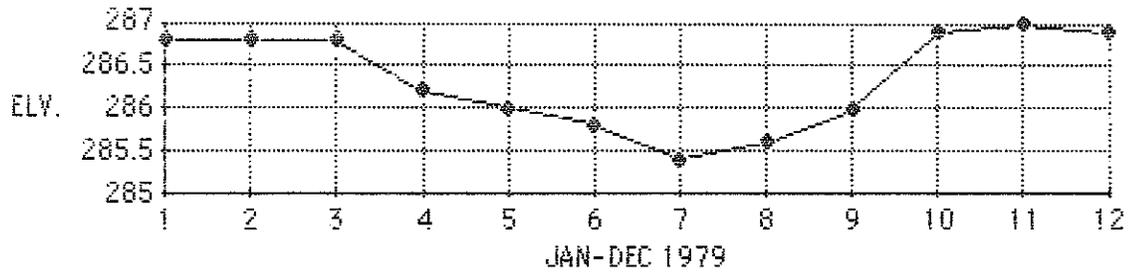
H-38



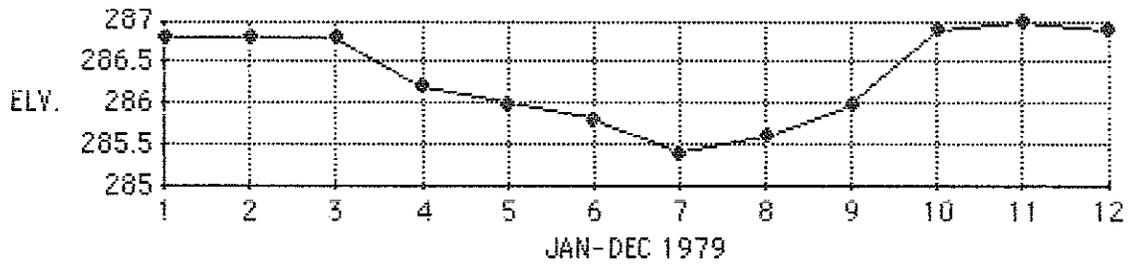
H-39



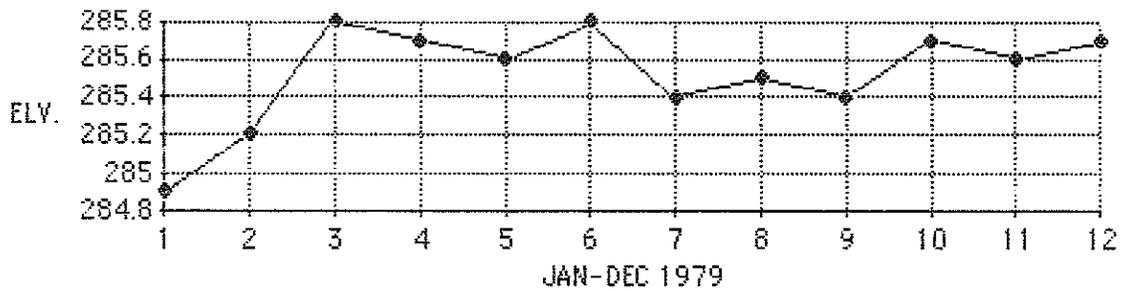
I-40



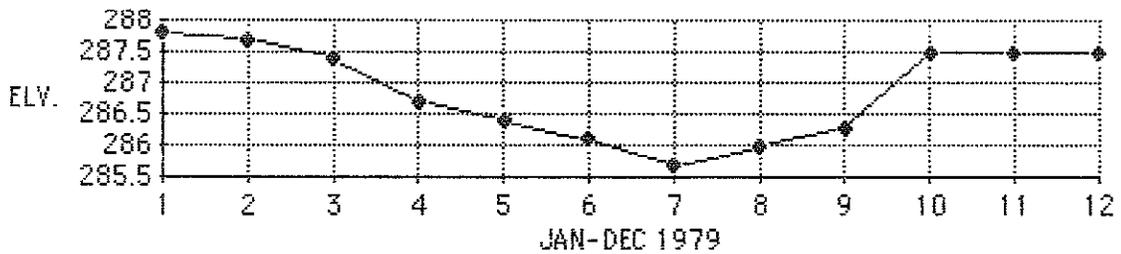
I-40



I-41



SL-1



BIG CANYON RESERVOIR PIEZOMETER READINGS

PIEZOMETERS READ ON JAN.28,87

SL-1	280.7	EAST UNDERDRAIN FLOW	1.6 GPM
SL-2	258.6	WEST UNDERDRAIN FLOW	4.0 GPM
G-26	268.7	AVG.SURFACE ELEVATION	257.5 ASL
H-30	278.8		
H-35	282.3		
H-36	261.5		
H-37	DRY		
H-38	274.0		
H-39	274.6		
I-40	280.4		
I-41	283.0		

BIG CANYON RESERVOIR PIEZOMETER READINGS

PIEZOMETERS READ ON FEB.27,87

SL-1	279.1	EAST UNDERDRAIN FLOW	1.5 GPM
	-----		-----
SL-2	258.6	WEST UNDERDRAIN FLOW	3.7 GPM
	-----		-----
G-26	268.8	AVG.SURFACE ELEVATION	269.5 ASL
	-----		-----
H-30	278.3		

H-35	281.7		

H-36	260.8		

H-37	DRY		

H-38	275.8		

H-39	274.2		

I-40	279.7		

I-41	282.5		

BIG CANYON RESERVOIR PIEZOMETER READINGS

PIEZOMETERS READ ON MAR.28,87

SL-1	281.2	EAST UNDERDRAIN FLOW	1.4 GPM
	-----		-----
SL-2	258.6	WEST UNDERDRAIN FLOW	3.7 GPM
	-----		-----
G-26	268.2	AVG. SURFACE ELEVATION	270.1
	-----		-----
H-30	278.1		

H-35	281.7		

H-36	260.9		

H-37	DRY		

H-38	275.6		

I-40	274.2		

I-41	282.1		

BIG CANYON RESERVOIR PIEZOMETER READINGS

PIEZOMETERS READ ON APR.29,87

SL-1	280.6	EAST UNDERDRAIN FLOW	1.8 GPM
	-----		-----
SL-2	258.6	WEST UNDERDRAIN FLOW	3.9 GPM
	-----		-----
G-26	268.4	AVG. SURFACE ELEVATION	281.2 ASL
	-----		-----
H-30	279.1		

H-35	281.7		

H-36	262.0		

H-37	DRY		

H-38	275.5		

H-39	274.5		

I-40	280.6		

I-41	281.9		

Big Canyon Reservoir piezometer readings'

Piezometers read on May 29, 1987

SL-1	281.9	East underdrain flow	2.1 GPM
SL-2	258.5	West underdrain flow	4.2 GPM
G-26	268.3	Avg. surface elevation	285.0 ASL
H-30	279.4		
H-35	281.9		
H-36	262.4		
H-37	DRY		
H-38	275.4		
H-39	274.5		
I-40	282.0		
I-41	282.1		

Big Canyon Reservoir piezometer readings

Piezometers read on June 30, 1987

SL-1	283.2	East underdrain flow	2.3 GPM
	-----		-----
SL-2	258.7	West underdrain flow	4.3 GPM
	-----		-----
G-26	268.3	Avg. surface elevation	286.3 ASL
	-----		-----
H-30	279.7		

H-35	282.2		

H-36	262.7		

H-37	DRY		

H-38	275.3		

H-39	274.6		

I-40	283.2		

I-41	282.4		

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF JANUARY 1987

TOTAL METERED RESERVOIR INFLUENT	835.9	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	911.5	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	383.5	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	68.3	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	27.5	" "
AVERAGE RESERVOIR CAPACITY	105.5	" "
WATER LOSS DUE TO EVAPORATION	N.A.	" "
WATER GAINED FROM RAINFALL	3.2	" "
TOTAL RAINFALL IN INCHES	1.70	
AVERAGE SURFACE ELEVATION	257.5	ASL
UNACCOUNTED FOR WATER FROM SEEPAGE & METER ERROR	N.A.	%
AVERAGE INFLUENT TURBIDITY	0.4	NTU
AVERAGE EFFLUENT TURBIDITY	0.6	NTU
AVERAGE EFFLUENT TEMPERATURE	58	FAH
AVERAGE CL2 RESIDUAL OF THE EFFLUENT	0.6	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.6	MG/L
TOTAL AMOUNT OF CHLORINE USED	1290	LBS
AVERAGE TREATMENT OF RAW WATER	32	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	990	LBS
AMOUNT OF COPPER SULPHATE USED	0	LBS
AVERAGE TREATMENT OF RESERVOIR	0	MG/L

RESERVOIR TAKEN OUT OF SERVICE ON 1-16-87 AT 1400 HR

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF FEBRUARY 1987

TOTAL METERED RESERVOIR INFLUENT	745.4	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	745.4	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	353.5	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	59.7	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	24.3	" "
AVERAGE RESERVOIR CAPACITY	60.0	" "
WATER LOSS DUE TO EVAPORATION	N.A.	" "
WATER GAINED FROM RAINFALL	3.3	" "
TOTAL RAINFALL IN INCHES	1.76	
AVERAGE SURFACE ELEVATION	269.5	ASL
UNACCOUNTED FOR WATER FROM SEEPAGE & METER ERROR	N.A.	%
AVERAGE INFLUENT TURBIDITY	0.8	NTU
AVERAGE EFFLUENT TURBIDITY	0.8	NTU
AVERAGE EFFLUENT TEMPERATURE	57	FAH
AVERAGE CL2 RESIDUAL OF THE EFFLUENT	1.2	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.9	MG/L
TOTAL AMOUNT OF CHLORINE USED	0	LBS
AVERAGE TREATMENT OF RAW WATER	26	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	720	LBS
AMOUNT OF COPPER SULPHATE USED	1000	LBS
AVERAGE TREATMENT OF RESERVOIR	1.5	MG/L

RESERVOIR CONTINUES OUT OF SERVICE FOR CLEANING

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF MARCH 1987

TOTAL METERED RESERVOIR INFLUENT	972.7	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	971.9	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	417.0	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	62.3	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	26.2	" "
AVERAGE RESERVOIR CAPACITY	60.0	" "
WATER LOSS DUE TO EVAPORATION	N.A.	" "
WATER GAINED FROM RAINFALL	1.4	" "
TOTAL RAINFALL IN INCHES	0.76	
AVERAGE SURFACE ELEVATION	270.1	ASL
UNACCOUNTED FOR WATER FROM SEEPAGE & METER ERROR	N.A.	%
AVERAGE INFLUENT TURBIDITY	0.6	NTU
AVERAGE EFFLUENT TURBIDITY	0.6	NTU
AVERAGE EFFLUENT TEMPERATURE	57	FAH
AVERAGE CL2 RESIDUAL OF THE EFFLUENT	1.3	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.7	MG/L
TOTAL AMOUNT OF CHLORINE USED	0	LBS
AVERAGE TREATMENT OF RAW WATER	34	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	1060	LBS
AMOUNT OF COPPER SULPHATE USED	0	LBS
AVERAGE TREATMENT OF RESERVOIR	0	MG/L

RESERVOIR CLEANING OPERATION COMPLETED AS OF 3-30-87
 AT 1130HR BEGAN TAKING 3CFS INTO BCR

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF APRIL 1987

TOTAL METERED RESERVOIR INFLUENT	1328.5	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	877.1	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	593.7	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	100.5	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	40.2	" "
AVERAGE RESERVOIR CAPACITY	220.1	" "
WATER LOSS DUE TO EVAPORATION	3.8	" "
WATER GAINED FROM RAINFALL	0.6	" "
TOTAL RAINFALL IN INCHES	0.32	
AVERAGE SURFACE ELEVATION	281.2	ASL
UNACCOUNTED FOR WATER FROM SEEPAGE & METER ERROR	1	%
AVERAGE INFLUENT TURBIDITY	0.5	NTU
AVERAGE EFFLUENT TURBIDITY	0.5	NTU
AVERAGE EFFLUENT TEMPERATURE	63	FAH
AVERAGE CL2 RESIDUAL OF THE EFFLUENT	0.9	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.4	MG/L
TOTAL AMOUNT OF CHLORINE USED	2160	LBS
AVERAGE TREATMENT OF RAW WATER	75	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	2260	LBS
AMOUNT OF COPPER SULPHATE USED	500	LBS
AVERAGE TREATMENT OF RESERVOIR	0.17	MG/L

RESERVOIR RETURNED TO SERVICE ON 04-08 @0630 HR

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF MAY 1987

TOTAL METERED RESERVOIR INFLUENT	1190.0	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	1193.6	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	666.6	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	116.0	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	47.9	" "
AVERAGE RESERVOIR CAPACITY	278.6	" "
WATER LOSS DUE TO EVAPORATION	5.3	" "
WATER GAINED FROM RAINFALL	0.0	" "
TOTAL RAINFALL IN INCHES	0	
AVERAGE SURFACE ELEVATION	285.0	ASL
UNACCOUNTED FOR WATER FROM SEEPAGE & METER ERROR	< 1	%
AVERAGE INFLUENT TURBIDITY	0.6	NTU
AVERAGE EFFLUENT TURBIDITY	0.6	NTU
AVERAGE EFFLUENT TEMPERATURE	69	FAH
AVERAGE CL2 RESIDUAL OF THE EFFLUENT	0.5	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.6	MG/L
TOTAL AMOUNT OF CHLORINE USED	1530	LBS
AVERAGE TREATMENT OF RAW WATER	130	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	4020	LBS
AMOUNT OF COPPER SULPHATE USED	0	LBS
AVERAGE TREATMENT OF RESERVOIR	0.00	MG/L

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF JUNE 1987

TOTAL METERED RESERVOIR INFLUENT	1245.0	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	1264.9	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	697.7	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	123.7	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	50.7	" "
AVERAGE RESERVOIR CAPACITY	300.0	" "
WATER LOSS DUE TO EVAPORATION	7.3	" "
WATER GAINED FROM RAINFALL	0.0	" "
TOTAL RAINFALL IN INCHES	0.00	
AVERAGE SURFACE ELEVATION	286.3	ASL
UNACCOUNTED FOR WATER FROM SEEPAGE & METER ERROR	1	%
AVERAGE INFLUENT TURBIDITY	0.3	NTU
AVERAGE EFFLUENT TURBIDITY	0.5	NTU
AVERAGE EFFLUENT TEMPERATURE	69	FAH
AVERAGE CL2 RESIDUAL OF THE EFFLUENT	1.1	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.6	MG/L
TOTAL AMOUNT OF CHLORINE USED	3760	LBS
AVERAGE TREATMENT OF RAW WATER	204	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	6110	LBS
AMOUNT OF COPPER SULPHATE USED	1450	LBS
AVERAGE TREATMENT OF RESERVOIR	0.01	MG/L

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF JULY 1987

TOTAL METERED RESERVOIR INFLUENT	1339.0	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	1454.8	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	575.1	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	127.8	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	50.1	" "
AVERAGE RESERVOIR CAPACITY	299.9	" "
WATER LOSS DUE TO EVAPORATION	7.5	" "
WATER GAINED FROM RAINFALL	0.3	" "
TOTAL RAINFALL IN INCHES	0.17	
AVERAGE SURFACE ELEVATION	286.2	ASL
AVERAGE INFLUENT TURBIDITY	0.4	NTU
AVERAGE EFFLUENT TURBIDITY	0.5	NTU
AVERAGE EFFLUENT TEMPERATURE	75	FAH
AVERAGE CL ₂ RESIDUAL OF THE EFFLUENT	1.4	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.6	MG/L
TOTAL AMOUNT OF CHLORINE USED	7810	LBS
AVERAGE TREATMENT OF RAW WATER	275	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	8530	LBS
AMOUNT OF COPPER SULPHATE USED	1600	LBS
AVERAGE TREATMENT OF RESERVOIR	0.02	MG/L

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF SEPTEMBER 1987

TOTAL METERED RESERVOIR INFLUENT	1193.1	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	1245.3	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	723.1	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	125.2	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	50.6	" "
AVERAGE RESERVOIR CAPACITY	283.5	" "
WATER LOSS DUE TO EVAPORATION	6.5	" "
WATER GAINED FROM RAINFALL	0.0	" "
TOTAL RAINFALL IN INCHES	0.00	
AVERAGE SURFACE ELEVATION	285.3	ASL
AVERAGE INFLUENT TURBIDITY	0.5	NTU
AVERAGE EFFLUENT TURBIDITY	0.7	NTU
AVERAGE EFFLUENT TEMPERATURE	77	FAH
AVERAGE CL ₂ RESIDUAL OF THE EFFLUENT	1.1	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.7	MG/L
TOTAL AMOUNT OF CHLORINE USED	3640	LBS
AVERAGE TREATMENT OF RAW WATER	304	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	9110	LBS
AMOUNT OF COPPER SULPHATE USED	2850	LBS
AVERAGE TREATMENT OF RESERVOIR	0.10	MG/L

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF OCTOBER 1987

TOTAL METERED RESERVOIR INFLUENT	1085.0	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	1018.1	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	558.9	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	87.7	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	34.1	" "
AVERAGE RESERVOIR CAPACITY	295.9	" "
WATER LOSS DUE TO EVAPORATION	3.2	" "
WATER GAINED FROM RAINFALL	4.7	" "
AVERAGE SURFACE ELEVATION	286.0	ASL
AVERAGE INFLUENT TURBIDITY	0.4	NTU
AVERAGE EFFLUENT TURBIDITY	0.6	NTU
AVERAGE EFFLUENT TEMPERATURE	75	FAH
AVERAGE CL2 RESIDUAL OF THE EFFLUENT	0.9	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.5	MG/L
TOTAL AMOUNT OF CHLORINE USED	2630	LBS
AVERAGE TREATMENT OF RAW WATER	301	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	9320	LBS
AMOUNT OF COPPER SULPHATE USED	1350	LBS
AVERAGE TREATMENT OF RESERVOIR	0.42	MG/L

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF NOVEMBER 1987

TOTAL METERED RESERVOIR INFLUENT	793.1	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	883.9	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	423.7	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	65.4	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	26.2	" "
AVERAGE RESERVOIR CAPACITY	265.0	" "
WATER LOSS DUE TO EVAPORATION	2.2	" "
WATER GAINED FROM RAINFALL	2.6	" "
TOTAL RAINFALL IN INCHES	1.40	
AVERAGE SURFACE ELEVATION	284.2	ASL
AVERAGE INFLUENT TURBIDITY	0.4	NTU
AVERAGE EFFLUENT TURBIDITY	0.6	NTU
AVERAGE EFFLUENT TEMPERATURE	69	FAH
AVERAGE CL ₂ RESIDUAL OF THE EFFLUENT	1.1	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.4	MG/L
TOTAL AMOUNT OF CHLORINE USED	2670	LBS
AVERAGE TREATMENT OF RAW WATER	357	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	10700	LBS
AMOUNT OF COPPER SULPHATE USED	1400	LBS
AVERAGE TREATMENT OF RESERVOIR	0.06	MG/L

BIG CANYON RESERVOIR WATER RECORD SUMMARY FILE B-239

FOR MONTH OF DECEMBER 1987

TOTAL METERED RESERVOIR INFLUENT	889.0	ACRE FT
TOTAL METERED RESERVOIR EFFLUENT	868.1	" "
TOTAL FLOW THROUGH CM-11/ZONE 3 CONNECTION	400.4	" "
TOTAL FLOW THROUGH ZONE 4 PUMP STATION	60.8	" "
TOTAL FLOW THROUGH ZONE 5 PUMP STATION	24.0	" "
AVERAGE RESERVOIR CAPACITY	283.5	" "
WATER LOSS DUE TO EVAPORATION	0.05	" "
WATER GAINED FROM RAINFALL	4.8	" "
TOTAL RAINFALL IN INCHES	2.55	
AVERAGE SURFACE ELEVATION	285.3	ASL
AVERAGE INFLUENT TURBIDITY	0.6	NTU
AVERAGE EFFLUENT TURBIDITY	0.4	NTU
AVERAGE EFFLUENT TEMPERATURE	61	FAH
AVERAGE CL2 RESIDUAL OF THE EFFLUENT	1.1	MG/L
AVERAGE 24HR CHLORINE DEMAND	0.4	MG/L
TOTAL AMOUNT OF CHLORINE USED	2500	LBS
AVERAGE TREATMENT OF RAW WATER	256	LBS/DAY
TOTAL AMOUNT OF CHLORINE USED	7930	LBS
AMOUNT OF COPPER SULPHATE USED	150	LBS
AVERAGE TREATMENT OF RESERVOIR	0.05	MG/L

Big Canyon Reservoir pizometer readings *

YEAR <u>1982</u>	Jan. <u>31</u>	Feb. <u>29</u>	Mar. <u>31</u>	May ⁰² Apr. <u> </u>	May. <u>31</u>	Jun. <u>30</u>
SL-1 Top elev.	309.1	309.1	309.1	309.1	309.1	309.1
Measured	25.2	26.2	26.3	22.8	18.8	20.2
Water table elev.	282.8	282.9	282.8	286.3	290.3	282.9
SL-2 Top elev.	308.8	308.8	308.8	308.8	308.8	308.8
Measured	50.2	50.2	50.3	50.2	50.1	50.0
Water table elev.	258.6	258.6	258.5	258.6	258.7	258.8
B-26 Top elev.	277.0	277.0	277.0	277.0	277.0	277.0
Measured	8.0	8.6	8.8	8.4	8.4	8.4
Water table elev.	269.0	268.4	268.2	268.6	268.6	268.6
H-30 Top elev.	308.0	308.0	308.0	308.0	308.0	308.0
Measured	28.0	28.4	28.4	27.9	29.1	27.1
Water table elev.	280.0	279.6	279.6	280.1	278.9	280.9
H-35 Top elev.	310.0	310.0	310.0	310.0	310.0	310.0
Measured	27.2	27.4	27.5	27.3	<i>Base</i>	25.4
Water table elev.	272.8	282.6	282.5	282.7		284.6
H-36 Top elev.	286.0	286.0	286.0	286.0	286.0	286.0
Measured	23.0	23.3	23.4	21.9	21.4	21.6
Water table elev.	263.0	262.7	262.6	264.1	264.6	264.4
H-37 Top elev.	298.0	298.0	298.0	298.0	298.0	298.0
Measured				29.8	28.9	28.6
Water table elev.	<i>DRY</i>	<i>DRY</i>	<i>DRY</i>	268.2	269.1	269.4
H-38 Top elev.	307.0	307.0	307.0	307.0	307.0	307.0
Measured	30.9	31.3	31.4	29.6	27.2	26.8
Water table elev.	276.1	275.7	275.6	277.4	279.8	280.2
H-39 Top elev.	291.0	291.0	291.0	291.0	291.0	291.0
Measured	16.4	16.5	16.7	16.1	15.7	15.8
Water table elev.	274.6	274.5	274.3	274.9	275.3	275.2
I-40 Top elev.	307.5	307.5	307.5	307.5	307.5	307.5
Measured	24.3	24.8	24.9	21.1	18.8	19.6
Water table elev.	283.2	282.7	282.6	286.4	288.7	287.9
I-41 Top elev.	317.0	317.0	317.0	317.0	317.0	317.0
Measured	32.6	33.8	34.0	33.8	32.0	31.3
Water table elev.	283.4	283.2	283.0	283.2	285.0	285.7

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR <u>88</u>	Jul. <u>29</u>	Aug. <u>31</u>	Sep. <u>30</u>	Oct. <u> </u>	Nov. <u>30</u>	Dec. <u>30</u>
SL-1 Top elev. Measured Water table elev.	309.1 20.3 288.8	309.1 20.1 288.7	309.1 21.5 287.6	309.1	309.1 25.0 284.1	309.1 26.5 282.6
SL-2 Top elev. Measured Water table elev.	308.8 50.3 258.5	308.8 50.1 258.7	308.8 50.1 258.7	308.8	308.8 50.3 258.5	308.8 50.1 258.7
G-26 Top elev. Measured Water table elev.	277.0 8.1 268.9	277.0 8.3 268.7	277.0 8.3 268.7	277.0	277.0 8.1 268.9	277.0 8.1 268.9
H-30 Top elev. Measured Water table elev.	308.0 26.9 281.1	308.0 26.7 281.3	308.0 26.9 281.1	308.0	308.0 27.8 280.2	308.0 28.2 279.8
H-35 Top elev. Measured Water table elev.	310.0 25.1 284.9	310.0 24.8 285.2	310.0 24.9 285.1	310.0	310.0 25.8 284.2	310.0 26.4 283.6
H-36 Top elev. Measured Water table elev.	286.0 21.6 264.4	286.0 21.4 264.6	286.0 21.8 264.2	286.0	286.0 23.4 262.6	286.0 24.2 261.8
H-37 Top elev. Measured Water table elev.	298.0 28.3 269.7	298.0 28.1 269.9	298.0 28.0 270.0	298.0	298.0 28.1 268.9	298.0 29.8 DRY
H-38 Top elev. Measured Water table elev.	307.0 26.4 280.6	307.0 25.7 281.3	307.0 25.8 281.2	307.0	307.0 27.3 279.7	307.0 28.2 278.3
H-39 Top elev. Measured Water table elev.	291.0 15.6 275.4	291.0 15.5 275.5	291.0 15.5 275.5	291.0	291.0 15.7 275.3	291.0 16.0 275.0
I-40 Top elev. Measured Water table elev.	307.5 19.6 287.9	307.5 19.9 287.6	307.5 20.4 287.1	307.5	307.5 23.3 284.2	307.5 24.8 282.7
I-41 Top elev. Measured Water table elev.	317.0 31.0 286.0	317.0 30.5 286.5	317.0 30.6 286.4	317.0	317.0 31.8 285.2	317.0 32.4 284.6

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR <u>89</u>	Jul. <u>31</u>	Aug. <u>31</u>	Sep. <u> </u>	Oct. <u>31</u>	Nov. <u>30</u>	Dec. <u>29</u>
SL-1 Top elev. Measured Water table elev.	309.1 25.4 275.7	309.1 26.8 282.3	309.1 26.4 282.7	309.1 26.9 282.2	309.1 26.4 282.7	309.1 26.6 282.5
SL-2 Top elev. Measured Water table elev.	308.8 50.1 258.7	308.8 50.1 258.7	308.8 50.1 258.7	308.8 50.1 258.7	308.8 50.1 258.7	308.8 50.4 258.4
G-26 Top elev. Measured Water table elev.	277.0 9.9 268.1	277.0 9.1 267.9	277.0 9.0 268.0	277.0 9.1 267.9	277.0 9.1 267.9	277.0 9.2 267.8
H-30 Top elev. Measured Water table elev.	308.0 28.3 279.7	308.0 28.8 279.2	308.0 28.6 279.4	308.0 28.7 279.3	308.0 28.8 279.2	308.0 28.6 279.4
H-35 Top elev. Measured Water table elev.	310.0 27.2 282.8	310.0 27.6 282.4	310.0 27.7 282.3	310.0 27.7 282.3	310.0 27.7 282.3	310.0 27.7 282.3
H-36 Top elev. Measured Water table elev.	286.0 24.7 261.3	286.0 24.8 261.2	286.0 24.1 261.9	286.0 24.5 261.5	286.0 24.7 261.3	286.0 24.7 261.3
H-37 Top elev. Measured Water table elev.	298.0 30.0 Dry	298.0 30.0 Dry	298.0 30.0 Dry	298.0 30.0 Dry	298.0 30.0 Dry	298.0 30.0 Dry
H-38 Top elev. Measured Water table elev.	307.0 31.0 277.0	307.0 31.3 275.7	307.0 31.3 275.7	307.0 31.7 275.3	307.0 31.8 275.2	307.0 31.9 275.2
H-39 Top elev. Measured Water table elev.	291.0 16.7 274.3	291.0 16.9 274.1	291.0 16.8 274.2	291.0 17.0 274.0	291.0 16.9 274.1	291.0 17.0 274.0
I-40 Top elev. Measured Water table elev.	307.5 31.5 283.0	307.5 25.4 282.1	307.5 25.0 282.5	307.5 25.5 282.0	307.5 25.0 282.5	307.5 25.1 282.4
I-41 Top elev. Measured Water table elev.	317.0 32.2 283.2	317.0 34.2 282.8	317.0 34.4 282.6	317.0 34.3 282.7	317.0 34.4 282.6	317.0 34.5 282.5

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR <u>1985</u>	Jan. <u>30</u>	Feb. <u>28</u>	Mar. <u>30</u>	Apr. <u>30</u>	May. <u>30</u>	Jun. <u>30</u>
SL-1 Top elev. Measured Water table elev.	309.1 28.6 280.5	309.1 29.1 280.0	309.1 29.8 279.3	309.1 27.6 281.5	309.1 26.0 283.1	309.1 25.8 283.3
SL-2 Top elev. Measured Water table elev.	308.8 50.2 258.6	308.8 50.2 258.6	308.8 50.2 258.6	308.8 50.3 258.5	308.8 50.3 258.5	308.8 50.3 258.5
B-26 Top elev. Measured Water table elev.	277.0 8.3 268.7	277.0 8.5 268.5	277.0 8.9 268.1	277.0 8.7 268.3	277.0 8.7 268.3	277.0 8.8 268.2
H-30 Top elev. Measured Water table elev.	308.0 29.0 279.0	308.0 29.1 278.6	308.0 29.7 278.3	308.0 28.8 279.2	308.0 28.3 279.7	308.0 28.2 279.8
H-35 Top elev. Measured Water table elev.	310.0 27.1 282.9	310.0 27.5 282.5	310.0 27.8 282.2	310.0 28.0 282.0	310.0 27.6 282.4	310.0 27.5 282.5
H-36 Top elev. Measured Water table elev.	286.0 25.4 260.6	286.0 25.7 260.2	286.0 26.1 259.9	286.0 24.2 261.2	286.0 24.4 261.6	286.0 24.5 261.5
H-37 Top elev. Measured Water table elev.	298.0 30.0 Dry	298.0 30.0 Dry	298.0 30.6 Dry	298.0 30.0 Dry	298.0 30.0 Dry	298.0 30.0 Dry
H-38 Top elev. Measured Water table elev.	307.0 30.6 276.4	307.0 29.0 279.0	307.0 27.8 279.2	307.0 29.0 278.0	307.0 29.2 277.8	307.0 29.9 277.1
H-39 Top elev. Measured Water table elev.	291.0 16.5 274.5	291.0 16.7 274.3	291.0 16.9 274.1	291.0 16.6 274.4	291.0 16.5 274.5	291.0 16.6 274.4
I-40 Top elev. Measured Water table elev.	307.5 26.6 280.9	307.5 27.3 280.2	307.5 27.8 279.7	307.5 26.0 281.5	307.5 24.3 283.2	307.5 24.2 283.3
I-41 Top elev. Measured Water table elev.	317.0 33.3 283.7	317.0 33.9 283.1	317.0 34.4 282.6	317.0 34.2 282.3	317.0 34.3 282.7	317.0 34.2 282.8

* See map for locations

City of Newport Beach / Water Production

Monthly Big Canyon Reservoir Piezometer Field Readings

Year 2000

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov 1	Dec 1
G-26										6.6	6.5	6.5
H-30										27.8	27.7	27.9
H-35										27.0	26.9	27.1
H-36										25.1	25.0	25.5
H-37										30.5	30.3	30.9
H-38												
H-39										14.4	14.5	14.6
I-40										25.7	25.6	25.9
I-41										32.2	32.3	32.2
UC-1												
UC-2												
UC-3												
UC-4												
UC-5												
Res Elev										281.8	280.0	

Note: Readings taken around the first of the month

Big Canyon Reservoir pizometer readings *

YEAR _____ Jan. _____ Feb. 11 Mar. 13 ~~Apr. 11~~ ~~May. 11~~ 26 Jun. 6

YEAR _____	Jan. _____	Feb. <u>11</u>	Mar. <u>13</u>	Apr. <u>11</u>	May. <u>11</u>	<u>26</u>	Jun. <u>6</u>
SL-1 Top elev. Measured	309.1	309.1	309.1	309.1	309.1	309.1	309.1
Water table elev.		9.3	10			300.0	
SL-2 Top elev. Measured	308.8	308.8	308.8	308.8	308.8	308.8	308.8
Water table elev.				30.7	33.2		
G-26 Top elev. Measured	277.0	277.0	277.0	277.0	277.0	277.0	277.0
Water table elev.				27.2			270.6
H-30 Top elev. Measured	308.0	308.0	308.0	308.0	308.0	308.0	308.0
Water table elev.		28.1		28.0	32.0	28.0	28.5
H-35 Top elev. Measured	310.0	310.0	310.0	310.0	310.0	310.0	310.0
Water table elev.			12	20	25.1	24.1	26.8
H-36 Top elev. Measured	286.0	286.0	286.0	286.0	286.0	286.0	286.0
Water table elev.				25.2	25.7	26.2	25.1
H-37 Top elev. Measured	298.0	298.0	298.0	298.0	298.0	298.0	298.0
Water table elev.		22.7		22.5	30.0	22.0	24.7
H-38 Top elev. Measured	307.0	307.0	307.0	307.0	307.0	307.0	307.0
Water table elev.				26.0	28.4	28.0	29.6
H-39 Top elev. Measured	291.0	291.0	291.0	291.0	291.0	291.0	291.0
Water table elev.				13.6	13.7	13.2	14.1
I-40 Top elev. Measured	307.5	307.5	307.5	307.5	307.5	307.5	307.5
Water table elev.				24.7	22.2	22.3	25.4
I-41 Top elev. Measured	317.0	317.0	317.0	317.0	317.0	317.0	317.0
Water table elev.				31.0	27.1	28.6	28.2

* See map for locations.

210.53

Big Canyon Reservoir pizometer readings *

EAR <u>1-000</u>	Jul. <u>3</u>	Aug. <u>2</u>	Sep. <u>1</u>	Oct. <u>2</u>	Nov. <u> </u>	Dec. <u> </u>
SL-1 Top elev. Measured Water table elev.	309.1	309.1	309.1 X	309.1 X	309.1	309.1
SL-2 Top elev. Measured Water table elev.	308.8	308.8	308.8 X	308.8 X	308.8	308.8
G-25 Top elev. Measured Water table elev.	277.0	277.0 6.5	277.0 6.5	277.0 6.6	277.0	277.0
H-30 Top elev. Measured Water table elev.	308.0	308.0 27.6	308.0 27.7	308.0 27.8	308.0	308.0
H-35 Top elev. Measured Water table elev.	310.0	310.0 26.8	310.0 26.9	310.0 27.0	310.0	310.0
H-36 Top elev. Measured Water table elev.	286.0	286.0 25.0	286.0 25.1	286.0 25.1	286.0	286.0
H-37 Top elev. Measured Water table elev.	298.0 X	298.0 X	298.0	298.0 X	298.0	298.0
H-38 Top elev. Measured Water table elev.	307.0 30.1	307.0 30.0	307.0 30.1	307.0 30.5	307.0	307.0
H-39 Top elev. Measured Water table elev.	291.0 14.2	291.0 14.2	291.0 14.2	291.0 14.4	291.0	291.0
I-40 Top elev. Measured Water table elev.	307.5 25.5	307.5 25.5	307.5 25.6	307.5 25.7	307.5	307.5
I-41 Top elev. Measured Water table elev.	317.0 32.0	317.0 32.0	317.0 32.1	317.0 32.2	317.0	317.0

* See map for locations

BCR
283.35 BCR
281.8

Big Canyon Reservoir pizometer readings *

YEAR 1990 Jul. 31 Aug. 30 Sep. 30 Oct. 31 Nov. 30 Dec.

SL-1 Top elev. Measured	309.1 25.7	309.1 26.9	309.1 26.5	309.1 27.0	309.1 26.5	309.1 26.4
Water table elev.	283.4	282.2	282.6	282.1	282.6	
SL-2 Top elev. Measured	308.8 50.3	308.8 50.3	308.8 50.3	308.8 49.7	308.8 48.8	308.8 43.5
Water table elev.	258.5	258.5	258.5	259.1	260.0	
G-26 Top elev. Measured	277.0 7.2	277.0 9.3	277.0 9.4	277.0 9.4	277.0 9.4	277.0 9.5
Water table elev.	269.3	267.7	267.6	267.6	267.6	
H-30 Top elev. Measured	308.0 28.3	308.0 28.8	308.0 28.7	308.0 28.8	308.0 28.7	308.0 29.0
Water table elev.	279.7	279.2	279.3	279.2	280.3	
H-35 Top elev. Measured	310.0 26.3	310.0 26.4	310.0 27.8	310.0 27.8	310.0 27.8	310.0 28.4
Water table elev.	283.7	283.6	282.2	282.2	282.2	
H-36 Top elev. Measured	286.0 24.4	286.0 24.7	286.0 24.9	286.0 25.5	286.0 25.5	286.0 25.8
Water table elev.	261.6	261.3	261.1	271.5	271.5	
H-37 Top elev. Measured	298.0 30.0	298.0 30.0	298.0 30.0	298.0 30.0	298.0 30.0	298.0 30.0
Water table elev.	DRY	DRY	DRY	DRY	DRY	Wet
H-38 Top elev. Measured	307.0 31.4	307.0 32.5	307.0 32.3	307.0 32.8	307.0 32.2	307.0 32.5
Water table elev.	275.6	274.5	274.7	274.2	275.8	
H-39 Top elev. Measured	291.0 17.0	291.0 17.1	291.0 17.1	291.0 17.2	291.0 17.2	291.0 17.2
Water table elev.	274.0	273.9	273.9	273.8	273.8	
I-40 Top elev. Measured	307.5 24.3	307.5 25.3	307.5 25.0	307.5 25.6	307.5 24.9	307.5 25.2
Water table elev.	283.2	282.2	282.5	281.9	282.6	
I-41 Top elev. Measured	317.0 33.9	317.0 34.0	317.0 34.4	317.0 34.5	317.0 34.6	317.0 35.1
Water table elev.	283.1	283.0	282.6	282.5	282.4	

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR 1990 Jan. 31 Feb. 28 Mar. 31 Apr. 30 May. 31 Jun. 29

SL-1 Top elev. Measured	309.1 26.4	309.1 25.8	309.1 26.3	309.1 26.0	309.1 26.2	309.1 26.3
Water table elev.	282.7	282.3	282.8	283.1	282.9	282.8
SL-2 Top elev. Measured	308.8 50.1	308.8 50.1	308.8 50.1	308.8 50.1	308.8 50.0	308.8 50.0
Water table elev.	258.7	258.7	258.7	258.7	258.8	258.8
G-26 Top elev. Measured	277.0 9.2	277.0 9.9	277.0 9.1	277.0 9.2	277.0 9.3	277.0 9.4
Water table elev.	267.8	268.1	267.9	267.8	266.7	266.6
H-30 Top elev. Measured	308.0 28.5	308.0 28.3	308.0 28.3	308.0 28.4	308.0 28.6	308.0 28.6
Water table elev.	279.5	279.7	279.7	279.6	379.4	379.4
H-35 Top elev. Measured	310.0 27.6	310.0 27.6	310.0 27.5	310.0 REES	310.0 27.6	310.0 27.7
Water table elev.	282.4	282.4	282.5		282.4	282.3
H-36 Top elev. Measured	286.0 24.4	286.0 24.2	286.0 24.7	286.0 24.6	286.0 24.7	286.0 24.8
Water table elev.	261.6	261.8	261.3	261.4	261.3	261.2
H-37 Top elev. Measured	298.0 30.0	298.0 30.0	298.0 30.0	298.0 30.0	298.0 30.0	298.0 30.0
Water table elev.	DRY	DRY	DRY	DRY	DRY	DRY
H-38 Top elev. Measured	307.0 31.8	307.0 31.5	307.0 31.7	307.0 31.7	307.0 31.7	307.0 31.8
Water table elev.	275.2	275.5	275.3	275.3	275.3	275.2
H-39 Top elev. Measured	291.0 17.0	291.0 16.8	291.0 17.0	291.0 17.0	291.0 17.1	291.0 17.0
Water table elev.	274.0	274.2	274.0	274.0	273.9	274.0
I-40 Top elev. Measured	307.5 24.9	307.5 24.2	307.5 24.8	307.5 24.4	307.5 24.7	307.5 24.7
Water table elev.	282.6	283.3	282.7	283.1	282.8	282.8
I-41 Top elev. Measured	317.0 34.2	317.0 34.4	317.0 34.0	317.0 34.2	317.0 34.2	317.0 34.3
Water table elev.	282.8	282.6	283.0	282.8	282.8	282.7

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR 1991 Jul. 31 ^{SEP 3} Aug. Sep. Oct. 31 Nov. 30 Dec. 31

SL-1 Top elev. Measured Water table elev.	309.1 20.8 288.6	309.1 18.2 290.9	309.1	309.1 25.0 284.1	309.1 25.1 284.0	309.1 26.6 282.5
SL-2 Top elev. Measured Water table elev.	308.8 50.5 258.3	308.8 50.6 258.2	308.8	308.8 50.9 257.9	308.8 50.8 258.0	308.8 50.0 258.8
G-26 Top elev. Measured Water table elev.	277.0 8.3 268.7	277.0 8.2 268.8	277.0	277.0 8.4 268.6	277.0 8.4 268.6	277.0 8.2 268.8
H-30 Top elev. Measured Water table elev.	308.0 26.8 281.2	308.0 26.7 281.3	308.0	308.0 27.5 281.5	308.0 27.9 280.1	308.0 28.1 279.9
H-35 Top elev. Measured Water table elev.	310.0 24.4 285.6	310.0 24.2 285.8	310.0	310.0 25.5 284.5	310.0 26.2 284.8	310.0 26.7 283.3
H-36 Top elev. Measured Water table elev.	286.0 23.7 262.3	286.0 23.2 262.8	286.0	286.0 25.0 261.0	286.0 25.5 261.5	286.0 26.0 260.0
H-37 Top elev. Measured Water table elev.	298.0 28.8 269.2	298.0 28.8 269.2	298.0	298.0 29.6 268.4	298.0 BEES 268.4	298.0 Bees Sprayed
H-38 Top elev. Measured Water table elev.	307.0 25.0 282.0	307.0 24.6 282.4	307.0	307.0 26.5 280.5	307.0 27.4 280.6	307.0 28.5 278.5
H-39 Top elev. Measured Water table elev.	291.0 15.0 276.0	291.0 15.5 275.5	291.0	291.0 15.7 275.3	291.0 15.9 275.1	291.0 16.1 274.9
I-40 Top elev. Measured Water table elev.	307.5 20.0 287.5	307.5 18.2 289.3	307.5	307.5 24.0 283.5	307.5 24.7 282.8	307.5 24.9 282.6
I-41 Top elev. Measured Water table elev.	317.0 29.8 287.2	317.0 29.8 287.2	317.0	317.0 31.3 286.7	317.0 32.1 284.9	317.0 33.0 284.0

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR 1991

Jan. ___

Feb. ___

Mar. 31

Apr. 30

May. 31

Jun. ___

SL-1 Top elev. Measured	309.1	309.1	309.1	309.1	309.1	309.1
Water table elev.			17.6 291.5	16.1 293.0		
SL-2 Top elev. Measured	308.8	308.8	308.8	308.8	308.8	308.8
Water table elev.			50.1 258.7	50.1 258.7		
G-26 Top elev. Measured	277.0	277.0	277.0	277.0	277.0	277.0
Water table elev.			8.5 268.5	8.3 268.7		
H-30 Top elev. Measured	308.0	308.0	308.0	308.0	308.0	308.0
Water table elev.			27.0 281.0	26.4 282.6		
H-35 Top elev. Measured	310.0	310.0	310.0	310.0	310.0	310.0
Water table elev.			25.3 284.7	24.1 285.9		
H-36 Top elev. Measured	286.0	286.0	286.0	286.0	286.0	286.0
Water table elev.			23.4 262.6	22.6 263.4		
H-37 Top elev. Measured	298.0	298.0	298.0	298.0	298.0	298.0
Water table elev.			29.8 Dry	28.8 Dry		
H-38 Top elev. Measured	307.0	307.0	307.0	307.0	307.0	307.0
Water table elev.			27.2 280.8	25.4 281.6		
H-39 Top elev. Measured	291.0	291.0	291.0	291.0	291.0	291.0
Water table elev.			16.3 274.7	16.0 275.0		
I-40 Top elev. Measured	307.5	307.5	307.5	307.5	307.5	307.5
Water table elev.			17.6 289.9	16.3 291.2		
I-41 Top elev. Measured	317.0	317.0	317.0	317.0	317.0	317.0
Water table elev.			31.3 285.7	29.5 287.5		

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR 92 Jul. 31 Aug. Sep. 30 Oct. 31 Nov. 30 Dec. Jan 5-93

SL-1 Top elev. Measured Water table elev.	309.1 22.7 286.4	309.1	309.1 25.9 283.2	309.1 22.0 287.1	309.1 24.7 284.4	309.1 19.6 289.5
SL-2 Top elev. Measured Water table elev.	308.8 50.5 258.3	308.8	308.8 50.4 258.4	308.8 50.0 258.8	308.8 50.3 258.5	308.8 50.0 258.8
G-24 Top elev. Measured Water table elev.	277.0 7.4 269.6	277.0	277.0 7.6 269.4	277.0 7.5 269.5	277.0 7.7 269.3	277.0 7.3 269.7
H-30 Top elev. Measured Water table elev.	308.0 26.4 281.6	308.0	308.0 28.0 280.0	308.0 27.8 280.2	308.0 27.8 280.2	308.0 27.0 281.0
H-35 Top elev. Measured Water table elev.	310.0 24.2 285.8	310.0	310.0 26.2 283.8	310.0 26.0 284.0	310.0 26.1 283.9	310.0 25.5 284.5
H-36 Top elev. Measured Water table elev.	286.0 23.2 262.8	286.0	286.0 23.8 262.2	286.0 23.2 262.8	286.0 24.1 261.9	286.0 22.8 263.2
H-37 Top elev. Measured Water table elev.	298.0 28.8 269.2	298.0	298.0 30.0 268.0	298.0 30.4 267.6	298.0 Dry	298.0 29.6 268.4
H-38 Top elev. Measured Water table elev.	307.0 25.9 281.1	307.0	307.0 28.2 278.8	307.0 27.8 279.2	307.0 28.3 278.7	307.0 26.6 280.4
H-39 Top elev. Measured Water table elev.	291.0 15.0 276.0	291.0	291.0 15.4 275.6	291.0 15.0 276.0	291.0 15.1 275.9	291.0 14.7 276.3
I-40 Top elev. Measured Water table elev.	307.5 21.7 285.8	307.5	307.5 23.9 283.6	307.5 20.1 287.1	307.5 23.4 284.1	307.5 19.2 288.3
I-41 Top elev. Measured Water table elev.	317.0 29.1 287.9	317.0	317.0 31.9 285.1	317.0 32.0 285.0	317.0 32.0 285.0	317.0 31.5 285.5

* See map for locations
 Surface 279.8 275.2 284.0 294.0 280.1 294.7
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Big Canyon Reservoir pizometer readings *

YEAR 92 Jan. 31 Feb. Mar. 31 Apr. May. 31 Jun. 30
may 01

SL-1 Top elev. Measured	309.1 27.1	309.1	309.1 18.8	309.1 19.4	309.1 20.2	309.1 15.2
Water table elev.	282.0		290.3	289.7	288.9	293.9
SL-2 Top elev. Measured	308.8 50.1	308.8	308.8 50.0	308.8 50.2	308.8 50.2	308.8 50.5
Water table elev.	258.7		258.8	258.6	258.6	258.3
G-26 Top elev. Measured	277.0 8.5	277.0	277.0 7.3	277.0 7.3	277.0 7.3	277.0 7.4
Water table elev.	268.5		269.7	269.7	269.7	269.6
H-60 Top elev. Measured	308.0 28.5	308.0	308.0 26.8	308.0 26.8	308.0 26.5	308.0 26.1
Water table elev.	279.5		281.2	281.2	281.5	281.9
H-65 Top elev. Measured	310.0 27.3	310.0	310.0 26.4	310.0 25.3	310.0 24.3	310.0 23.2
Water table elev.	282.7		283.6	284.7	285.7	286.8
H-66 Top elev. Measured	286.0 26.2	286.0	286.0 22.8	286.0 22.9	286.0 22.5	286.0 21.6
Water table elev.	259.8		263.2	263.1	264.5	264.4
H-67 Top elev. Measured	298.0 29.8	298.0	298.0 29.5	298.0 29.7	298.0 29.0	298.0 28.5
Water table elev.	268.2		268.5	259.3	269.0	270.5
H-68 Top elev. Measured	307.0 29.7	307.0	307.0 27.8	307.0 26.9	307.0 26.0	307.0 24.9
Water table elev.	277.3		279.2	280.1	281.0	282.1
H-69 Top elev. Measured	291.0 16.2	291.0	291.0 18.3	291.0 15.1	291.0 15.0	291.0 14.7
Water table elev.	274.8		275.7	275.9	276.0	276.3
I-40 Top elev. Measured	307.5 25.5	307.5	307.5 18.8	307.5 18.6	307.5 19.0	307.5 15.1
Water table elev.	282.0		288.7	288.9	278.5	292.4
I-41 Top elev. Measured	317.0 28.5	317.0	317.0 32.3	317.0 30.7	317.0 29.3	317.0 27.9
Water table elev.	288.5		284.7	286.3	287.7	290.1

Surface * See map for locations
 elevation 278.6

Rain 1.52" Evap 15

Big Canyon Reservoir pizometer readings *

YEAR 93 Jul. 31 Aug. Sep. 30 Oct. 31 Nov. 30 Dec. 31

SL-1 Top elev. Measured Water table elev.	309.1 21.1 288.0	309.1	309.1 - 23.0 286.1	309.1 24.7 284.4	309.1 22.9 286.2	309.1 25.8 283.3
SL-2 Top elev. Measured Water table elev.	308.8 50.4 258.4	308.8	308.8 - 50.6 258.2	Dry 308.8 50.6	308.8 50.0 258.8	308.8 49.7 257.1
G-26 Top elev. Measured Water table elev.	277.0 6.7 270.3	277.0	277.0 6.7 270.3	277.0 6.7 270.3	277.0 6.8 271.2	277.0 7.0 270.0
H-30 Top elev. Measured Water table elev.	308.0 26.7 281.3	308.0	308.0 26.9 281.1	308.0 27.2 280.8	308.0 27.0 281.0	308.0 27.5 280.5
H-35 Top elev. Measured Water table elev.	310.0 24.0 286.0	310.0	310.0 24.5 285.5	310.0 25.1 284.9	310.0 25.0 285.0	310.0 25.9 284.1
H-36 Top elev. Measured Water table elev.	286.0 21.5 264.5	286.0	286.0 - 22.0 264.0	286.0 22.8 262.2	286.0 22.9 263.1	286.0 23.0 263.0
H-37 Top elev. Measured Water table elev.	298.0 27.4 270.6	298.0	298.0 - 27.7 270.3	298.0 28.4 269.6	298.0 28.3 269.7	298.0 28.8 269.2
H-38 Top elev. Measured Water table elev.	307.0 25.9 281.1	307.0	307.0 - 26.1 280.9	307.0 27.2 279.8	307.0 26.6 280.4	307.0 27.9 279.1
H-39 Top elev. Measured Water table elev.	291.0 13.8 277.2	291.0	291.0 - 14.1 276.9	291.0 14.2 276.8	291.0 14.2 276.8	291.0 14.5 276.5
I-40 Top elev. Measured Water table elev.	307.5 19.4 288.1	307.5	307.5 - 21.7 285.8	307.5 23.0 284.5	307.5 21.6 285.9	307.5 24.3 283.2
I-41 Top elev. Measured Water table elev.	317.0 29.0 288.0	317.0	317.0 - 29.7 287.3	317.0 30.5 286.5	317.0 30.4 286.6	317.0 31.3 285.7

* See map for locations

279.9 Surface elev.

Big Canyon Reservoir pizometer readings *

YEAR 93 Jan. 31 Feb. 28 Mar. 31 Apr. May. Jun. 30

SL-1 Top elev.	309.1	309.1	309.1	309.1	309.1	309.1
Measured	22.5	17.4	19.2	23.9		22.0
Water table elev.	286.6	291.7	289.9	285.2		287.1
SL-2 Top elev.	308.8	308.8	308.8	308.8	308.8	308.8
Measured	50.0	49.9	50.1	50.4		50.2
Water table elev.	258.8	258.9	258.7	258.4		258.6
G-26 Top elev.	277.0	277.0	277.0	277.0	277.0	277.0
Measured	6.1	5.6	5.9	6.3		6.4
Water table elev.	270.9	271.4	271.1	270.7		270.6
H-30 Top elev.	308.0	308.0	308.0	308.0	308.0	308.0
Measured	26.1	25.5	24.9	26.1		26.5
Water table elev.	281.9	282.5	283.1	281.9		282.5
H-35 Top elev.	310.0	310.0	310.0	310.0	310.0	310.0
Measured	24.7	23.1	22.2	23.4		22.8
Water table elev.	285.3	286.9	287.8	286.6		287.2
H-36 Top elev.	286.0	286.0	286.0	286.0	286.0	286.0
Measured	21.6	20.8	20.6	21.9		21.6
Water table elev.	264.4	265.2	265.4	264.1		264.4
H-37 Top elev.	298.0	298.0	298.0	298.0	298.0	298.0
Measured	28.9	28.2	27.5	27.7		27.4
Water table elev.	269.1	269.8	270.5	270.3		270.6
H-38 Top elev.	307.0	307.0	307.0	307.0	307.0	307.0
Measured	27.2	26.5	25.8	26.4		26.0
Water table elev.	280.8	280.5	281.2	280.6		281.0
H-39 Top elev.	291.0	291.0	291.0	291.0	291.0	291.0
Measured	14.6	13.6	14.0	14.7		13.9
Water table elev.	276.4	277.4	277.0	276.3		277.1
I-40 Top elev.	307.5	307.5	307.5	307.5	307.5	307.5
Measured	21.2	16.1	17.6	20.8		20.4
Water table elev.	286.3	291.4	289.9	286.7		287.1
I-41 Top elev.	317.0	317.0	317.0	317.0	317.0	317.0
Measured	29.0	26.3	25.4	27.5		28.6
Water table elev.	288.0	280.7	291.6	289.5		288.4

* See map for locations

Surface elev.

287.7

Big Canyon Reservoir pizometer readings *

YEAR 94

Jul. 31

Aug. 00

Sep. 30

Oct. 31

Nov. 30

Dec. 30

SL-1 Top elev.	309.1	309.1	309.1	309.1	309.1	309.1
Measured	24.6		26.9	27.3	26.9	26.4
Water table elev.	284.5		282.2	281.7	282.2	282.7
SL-2 Top elev.	308.8	308.8	308.8	308.8	308.8	308.8
Measured	50.1		50.0	50.0	50.0	50.0
Water table elev.	258.7		258.8	258.8	258.8	258.8
G-26 Top elev.	277.0	277.0	277.0	277.0	277.0	277.0
Measured	7.3		7.6	7.7	7.7	7.7
Water table elev.	269.7		269.4	269.3	269.3	269.3
H-30 Top elev.	308.0	308.0	308.0	308.0	308.0	308.0
Measured	27.3		28.1	28.1	28.1	28.1
Water table elev.	280.7		279.9	279.9	279.9	279.9
H-35 Top elev.	310.0	310.0	310.0	310.0	310.0	310.0
Measured	25.4		26.8	26.9	27.3	27.5
Water table elev.	284.6		283.2	283.1	282.7	282.5
H-36 Top elev.	286.0	286.0	286.0	286.0	286.0	286.0
Measured	24.3		24.8	24.8	24.9	24.9
Water table elev.	261.7		261.2	261.2	261.1	261.1
H-37 Top elev.	298.0	298.0	298.0	298.0	298.0	298.0
Measured	29.3		024	30.3	30.3	29.7
Water table elev.	268.7		268.0	267.7	267.7	268.3
H-38 Top elev.	307.0	307.0	307.0	307.0	307.0	307.0
Measured	28.0		30.3	30.4	30.8	30.5
Water table elev.	279.0		276.7	276.6	276.2	276.5
H-39 Top elev.	291.0	291.0	291.0	291.0	291.0	291.0
Measured	15.0		15.3	15.3	15.3	15.0
Water table elev.	276.0		275.7	275.7	275.7	275.7
I-40 Top elev.	307.5	307.5	307.5	307.5	307.5	307.5
Measured	23.3		26.0	26.0	26.3	26.3
Water table elev.	284.2		281.5	281.5	281.2	281.2
I-41 Top elev.	317.0	317.0	317.0	317.0	317.0	317.0
Measured	30.7		31.9	32.6	32.9	33.4
Water table elev.	286.3		285.1	284.4	284.1	283.6

* See map for locations

Surface elevation

278.2

267.7

280.8

280.6

283.5

287.2

0.37

0

0.88

Big Canyon Reservoir pizometer readings *

YEAR <u>54</u>	Jan. <u>31</u>	Feb. <u>28</u>	Mar. <u>31</u>	Apr. <u>30</u>	May. <u>31</u>	Jun. <u>30</u>
SL-1 Top elev. Measured	309.1 <u>25.3</u>	309.1 <u>25.6</u>	309.1 <u>25.0</u>	309.1 <u>22.3</u>	309.1 <u>20.9</u>	309.1 <u>20.8</u>
Water table elev.	<u>283.8</u>	<u>283.5</u>	<u>284.1</u>	<u>286.8</u>	<u>288.2</u>	<u>288.3</u>
SL-2 Top elev. Measured	308.8 <u>50.0</u>	308.8 <u>50.1</u>	308.8 <u>50.0</u>	308.8 <u>50.0</u>	308.8 <u>50.0</u>	308.8 <u>50.6</u>
Water table elev.	<u>258.8</u>	<u>258.7</u>	<u>258.8</u>	<u>258.8</u>	<u>258.8</u>	<u>258.2</u>
B-26 Top elev. Measured	277.0 <u>8.1</u>	277.0 <u>7.2</u>	277.0 <u>7.1</u>	277.0 <u>7.1</u>	277.0 <u>7.1</u>	277.0 <u>7.1</u>
Water table elev.	<u>268.9</u>	<u>269.8</u>	<u>269.9</u>	<u>269.9</u>	<u>269.9</u>	<u>269.9</u>
H-30 Top elev. Measured	308.0 <u>27.7</u>	308.0 <u>27.8</u>	308.0 <u>27.8</u>	308.0 <u>27.5</u>	308.0 <u>27.2</u>	308.0 <u>26.9</u>
Water table elev.	<u>280.3</u>	<u>280.2</u>	<u>280.2</u>	<u>280.5</u>	<u>280.8</u>	<u>281.1</u>
H-35 Top elev. Measured	310.0 <u>26.1</u>	310.0 <u>26.4</u>	310.0 <u>26.6</u>	310.0 <u>26.1</u>	310.0 <u>25.3</u>	310.0 <u>25.0</u>
Water table elev.	<u>283.9</u>	<u>283.6</u>	<u>283.4</u>	<u>283.9</u>	<u>284.7</u>	<u>285.0</u>
H-36 Top elev. Measured	286.0 <u>23.9</u>	286.0 <u>23.6</u>	286.0 <u>23.9</u>	286.0 <u>23.9</u>	286.0 <u>23.6</u>	286.0 <u>23.6</u>
Water table elev.	<u>262.1</u>	<u>262.4</u>	<u>262.1</u>	<u>262.1</u>	<u>262.4</u>	<u>262.4</u>
H-37 Top elev. Measured	295.0 <u>29.6</u>	295.0 <u>29.5</u>	295.0 <u>29.3</u>	295.0 <u>29.6</u>	295.0 <u>29.5</u>	295.0 <u>29.7</u>
Water table elev.	<u>268.4</u>	<u>268.5</u>	<u>268.7</u>	<u>268.4</u>	<u>268.5</u>	<u>268.3</u>
H-38 Top elev. Measured	307.0 <u>28.2</u>	307.0 <u>28.8</u>	307.0 <u>29.0</u>	307.0 <u>28.4</u>	307.0 <u>27.8</u>	307.0 <u>27.3</u>
Water table elev.	<u>278.8</u>	<u>278.2</u>	<u>278.0</u>	<u>278.6</u>	<u>279.2</u>	<u>279.2</u>
H-39 Top elev. Measured	291.0 <u>14.6</u>	291.0 <u>14.8</u>	291.0 <u>14.8</u>	291.0 <u>14.6</u>	291.0 <u>14.5</u>	291.0 <u>14.5</u>
Water table elev.	<u>276.4</u>	<u>276.2</u>	<u>276.2</u>	<u>276.4</u>	<u>276.5</u>	<u>276.5</u>
I-40 Top elev. Measured	307.5 <u>23.5</u>	307.5 <u>24.0</u>	307.5 <u>23.4</u>	307.5 <u>22.7</u>	307.5 <u>19.7</u>	307.5 <u>20.0</u>
Water table elev.	<u>284.0</u>	<u>283.5</u>	<u>284.1</u>	<u>286.8</u>	<u>287.8</u>	<u>287.5</u>
I-41 Top elev. Measured	317.0 <u>31.8</u>	317.0 <u>32.1</u>	317.0 <u>32.4</u>	317.0 <u>31.8</u>	317.0 <u>30.8</u>	317.0 <u>30.4</u>
Water table elev.	<u>285.2</u>	<u>284.9</u>	<u>284.6</u>	<u>285.2</u>	<u>286.2</u>	<u>286.6</u>

* See map for locations
 283.5 281.0 284.5 289.9 290.8 289.9

Big Canyon Reservoir pizometer readings *

YEAR 1995

Jul. 31

Aug. 31

Sep. 30

Oct. 31

Nov. 30

Dec. _____

SL-1 Top elev. Measured	309.1 25.0	309.1 25.8	309.1 25.8	309.1 26.2	309.1 25.4	309.1 24.5
Water table elev.	284.1	283.3	283.3	282.9	283.7	284.6
SL-2 Top elev. Measured	308.8 50.0	308.8 50.0	308.8 53.5	308.8 54.1	308.8 51.8	308.8 50.3
Water table elev.	258.8	258.8	255.3	254.7	256.2	258.5
G-26 Top elev. Measured	277.0 6.3	277.0 5.5	277.0 6.1	277.0 6.2	277.0 6.5	277.0 6.4
Water table elev.	270.7	271.5	270.9	270.8	270.5	270.6
H-30 Top elev. Measured	308.0 27.0	308.0 27.3	308.0 27.3	308.0 27.7	308.0 27.4	308.0 27.2
Water table elev.	281.0	280.7	280.7	280.3	280.6	280.8
H-35 Top elev. Measured	310.0 25.0	310.0 25.9	310.0 25.9	310.0 26.1	310.0 26.2	310.0 26.4
Water table elev.	285.0	284.1	284.1	283.9	283.8	283.6
H-36 Top elev. Measured	286.0 23.0	286.0 23.8	286.0 23.6	286.0 24.4	286.0 24.3	286.0 24.8
Water table elev.	263.0	262.2	262.4	261.6	261.7	261.2
H-37 Top elev. Measured	298.0 28.2	298.0 29.0	298.0 29.4	298.0 29.9	298.0 29.8	298.0 29.8
Water table elev.	269.8	269.0	268.6	268.1	268.2	268.2
H-38 Top elev. Measured	307.0 27.4	307.0 28.2	307.0 28.7	307.0 29.4	307.0 29.2	307.0 28.6
Water table elev.	279.6	278.8	278.3	277.6	277.8	278.4
H-39 Top elev. Measured	291.0 13.7	291.0 13.2	291.0 13.8	291.0 14.1	291.0 14.1	291.0 13.9
Water table elev.	277.3	277.8	277.2	276.9	276.9	277.1
I-40 Top elev. Measured	307.5 24.7	307.5 25.0	307.5 25.1	307.5 25.4	307.5 24.9	307.5 24.8
Water table elev.	282.8	282.5	282.4	282.1	282.6	282.7
I-41 Top elev. Measured	317.0 30.4	317.0 30.8	317.0 31.0	317.0 31.3	317.0 31.5	317.0 31.4
Water table elev.	286.6	286.2	286.0	285.7	285.5	285.6

Reservoir water
surface elevation

* See map for locations

281.5 280.4 278.9 279.9 284.3 290.0

Big Canyon Reservoir pizometer readings *

YEAR <u>1995</u>	Jan. <u>31</u>	Feb. <u>28</u>	Mar. <u>31</u>	Apr. <u>30</u>	May. <u>31</u>	Jun. <u>30</u>
SL-1 Top elev. Measured Water table elev.	309.1 24.5 284.6	309.1 24.5 284.6	309.1 22.8 286.3	309.1 22.7 286.4	309.1 21.9 284.7	309.1 24.9 284.7
SL-2 Top elev. Measured Water table elev.	308.8 50.0 258.8	308.8 49.8 259.0	308.8 50.5 258.3	308.8 50.6 258.2	308.8 50.0 258.8	308.8 50.0 258.8
B-26 Top elev. Measured Water table elev.	277.0 5.7 271.3	277.0 5.8 271.2	277.0 5.3 271.7	277.0 5.4 271.6	277.0 5.9 271.1	277.0 6.1 270.9
H-30 Top elev. Measured Water table elev.	308.0 26.6 281.4	308.0 MIA	308.0 25.7 282.3	308.0 25.5 282.5	308.0 26.2 281.8	308.0 26.5 281.5
H-35 Top elev. Measured Water table elev.	310.0 27.0 283.0	310.0 26.3 283.7	310.0 25.2 284.8	310.0 24.7 285.3	310.0 25.7 285.3	310.0 25.0 285.0
H-36 Top elev. Measured Water table elev.	286.0 21.8 264.2	286.0 21.4 264.6	286.0 20.4 265.6	286.0 20.7 265.3	286.0 20.3 263.7	286.0 22.4 263.6
H-37 Top elev. Measured Water table elev.	298.0 29.8 268.2	295.0 29.2 268.8	298.0 27.9 270.1	298.0 27.3 270.7	298.0 27.7 270.3	298.0 27.1 270.9
H-38 Top elev. Measured Water table elev.	307.0 29.2 277.8	307.0 27.9 279.1	307.0 26.7 280.3	307.0 25.8 281.2	307.0 26.7 280.3	307.0 26.6 280.4
H-39 Top elev. Measured Water table elev.	291.0 14.3 276.7	291.0 14.0 277.0	291.0 13.3 277.7	291.0 13.0 278.0	291.0 13.5 277.5	291.0 13.5 277.5
I-40 Top elev. Measured Water table elev.	307.5 23.4 282.1	307.5 24.5 283.0	307.5 23.1 284.4	307.5 22.5 285.0	307.5 23.9 283.6	307.5 24.1 283.4
I-41 Top elev. Measured Water table elev.	317.0 32.4 284.6	317.0 31.2 285.8	317.0 29.1 287.9	317.0 28.7 288.3	317.0 29.2 287.8	317.0 29.7 287.3
Surface elevation	292.0	295.1	296.1	297.2	299.7	287.5

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR 1996 Jan. 31 Feb. 29 Mar. X Apr. 30 May. 31 Jun. 7-3-96

SL-1 Top elev. Measured Water table elev.	309.1 <u>10.2</u> 298.9	309.1 <u>10.2</u> 298.9	309.1 <u> </u> 	309.1 <u>10.5</u> 298.6	309.1 <u>11.4</u> 297.7	309.1 <u>12.6</u> 296.4
SL-2 Top elev. Measured Water table elev.	308.8 <u>47.6</u> 261.2	308.8 <u>50.0</u> 258.8	308.8 <u> </u> 	308.8 <u>49.6</u> 259.2	308.8 <u>52.8</u> 256.0	308.8 <u>50.2</u> 258.6
G-26 Top elev. Measured Water table elev.	277.0 <u>6.4</u> 270.6	277.0 <u>5.5</u> 271.5	277.0 <u> </u> 	277.0 <u>5.8</u> 271.2	277.0 <u>5.9</u> 271.1	277.0 <u>6.4</u> 270.1
H-30 Top elev. Measured Water table elev.	308.0 <u>27.0</u> 281.0	308.0 <u>26.0</u> 282.0	308.0 <u> </u> 	308.0 <u>25.5</u> 282.5	308.0 <u>25.8</u> 282.2	308.0 <u>26.5</u> 281.5
H-35 Top elev. Measured Water table elev.	310.0 <u>25.7</u> 284.3	310.0 <u>25.1</u> 284.9	310.0 <u> </u> 	310.0 <u>24.0</u> 286.0	310.0 <u>24.4</u> 285.6	310.0 <u>20.2</u> 289.8
H-36 Top elev. Measured Water table elev.	286.0 <u>22.7</u> 263.3	286.0 <u>22.2</u> 263.8	286.0 <u> </u> 	286.0 <u>21.1</u> 264.9	286.0 <u>22.5</u> 263.5	286.0 <u>22.7</u> 263.3
H-37 Top elev. Measured Water table elev.	298.0 <u>29.3</u> 268.7	295.0 <u>28.5</u> 266.5	298.0 <u> </u> 	298.0 <u>27.0</u> 271.0	298.0 <u>27.3</u> 270.7	298.0 <u>27.8</u> 270.2
H-38 Top elev. Measured Water table elev.	307.0 <u>27.4</u> 279.6	307.0 <u>26.4</u> 280.6	307.0 <u> </u> 	307.0 <u>24.5</u> 282.5	307.0 <u>25.3</u> 281.7	307.0 <u>26.1</u> 280.9
H-39 Top elev. Measured Water table elev.	291.0 <u>13.5</u> 277.5	291.0 <u>13.1</u> 277.9	291.0 <u> </u> 	291.0 <u>12.6</u> 278.4	291.0 <u>12.6</u> 278.4	291.0 <u>13.0</u> 278
I-40 Top elev. Measured Water table elev.	307.5 <u>22.0</u> 285.5	307.5 <u>20.4</u> 287.1	307.5 <u> </u> 	307.5 <u>23.5</u> 284.0	307.5 <u>26.6</u> 280.9	307.5 <u>23.3</u> 283.7
I-41 Top elev. Measured Water table elev.	317.0 <u>31.0</u> 286.0	317.0 <u>30.5</u> 286.5	317.0 <u> </u> 	317.0 <u>28.6</u> 288.4	317.0 <u>29.2</u> 287.8	317.0 <u>30.1</u> 286.9

Reservoir
Surface
elevation

* See map for locations

296.1 297.0 299.5 287.4 284.5

Big Canyon Reservoir pizometer readings *

YEAR 1996 Jul. 31 Aug. 31 Sep. 30 Oct. 31 Nov. ___ Dec. ___

SL-1 Top elev. Measured Water table elev.	309.1 13.6 295.5	309.1 14.7 294.4	309.1 13.5 293.6	309.1 16.2 292.9	309.1	309.1 12.4 296.7
SL-2 Top elev. Measured Water table elev.	308.8 50.4 258.4	308.8 54.2 254.0	308.8 54.2 258.6	308.8 50.2 258.6	308.8	308.8 50.0 258.8
G-26 Top elev. Measured Water table elev.	277.0 6.4 270.6	277.0 6.3 270.7	277.0 6.5 270.5	277.0 6.8 270.2	277.0	277.0 5.5 271.5
H-30 Top elev. Measured Water table elev.	308.0 26.7 281.3	308.0 27.0 281.0	308.0 27.4 280.6	308.0 28.2 279.8	308.0	308.0 27.0 281.0
H-35 Top elev. Measured Water table elev.	310.0 25.4 284.6	310.0 25.8 284.2	310.0 26.0 284.0	310.0 26.2 283.8	310.0	310.0 26.3 283.7
H-36 Top elev. Measured Water table elev.	286.0 22.8 263.2	286.0 23.2 262.8	286.0 24.3 261.7	286.0 25.6 260.4	286.0	286.0 23.7 262.3
H-37 Top elev. Measured Water table elev.	298.0 28.7 269.3	298.0 28.7 269.3	298.0 29.6 268.4	298.0 30.0 268.	298.0	298.0 30.0 268.0
H-38 Top elev. Measured Water table elev.	307.0 26.4 280.6	307.0 27.5 279.5	307.0 27.8 279.2	307.0 28.3 278.7	307.0	307.0 29.8 277.2
H-39 Top elev. Measured Water table elev.	291.0 13.4 277.6	291.0 13.5 277.5	291.0 14.1 276.9	291.0 14.9 276.1	291.0	291.0 13.7 277.3
I-40 Top elev. Measured Water table elev.	307.5 24.0 283.5	307.5 25.0 282.5	307.5 25.5 282.0	307.5 26.8 280.7	307.5	307.5 25.0 282.5
I-41 Top elev. Measured Water table elev.	317.0 30.6 286.4	317.0 31.1 285.9	317.0 31.3 285.7	317.0 32.6 284.4	317.0	317.0 31.4 285.6

* See map for locations

Surface elevation

280.0 270.6 264.5 ¹⁰⁻³¹⁻⁹⁶ \emptyset 284.9

Big Canyon Reservoir pizometer readings *

YEAR 97 Jul. ___ Aug. ___ Sep. 2 Oct. ___ Nov. ___ Dec. ___

SL-1 Top elev. Measured Water table elev.	309.1	309.1	309.1 18.6	309.1	309.1	309.1
SL-2 Top elev. Measured Water table elev.	308.8	308.8	308.8 49.2	308.8	308.8	308.8
G-26 Top elev. Measured Water table elev.	277.0	277.0	277.0 6.3	277.0	277.0	277.0
H-30 Top elev. Measured Water table elev.	308.0	308.0	308.0 26.8	308.0	308.0	308.0
H-35 Top elev. Measured Water table elev.	310.0	310.0	310.0 26.1	310.0	310.0	310.0
H-36 Top elev. Measured Water table elev.	286.0	286.0	286.0 24.8	286.0	286.0	286.0
H-37 Top elev. Measured Water table elev.	298.0	298.0	298.0 28.8	298.0	298.0	298.0
H-38 Top elev. Measured Water table elev.	307.0	307.0	307.0 28.1	307.0	307.0	307.0
H-39 Top elev. Measured Water table elev.	291.0	291.0	291.0 14.6	291.0	291.0	291.0
I-40 Top elev. Measured Water table elev.	307.5	307.5	307.5 26.4	307.5	307.5	307.5
I-41 Top elev. Measured Water table elev.	317.0	317.0	317.0 31.6	317.0	317.0	317.0

* See map for locations

Big Canyon Reservoir pizometer readings *

YEAR 1997 Jan. 31 Feb. Mar. 31 Apr. 30 May. 31 Jun.

SL-1 Top elev. Measured Water table elev.	309.1 <u>12.2</u> 296.9	309.1 <u> </u> <u> </u>	309.1 <u>21.9</u> 287.2	309.1 <u>19.4</u> 289.7	309.1 <u>22.2</u> 286.9	309.1 <u> </u> <u> </u>
SL-2 Top elev. Measured Water table elev.	308.8 <u>50.0</u> 258.8	308.8 <u> </u> <u> </u>	308.8 <u>50.0</u> 258.8	308.8 <u>50.1</u> 258.7	308.8 <u>50.1</u> 258.7	308.8 <u> </u> <u> </u>
G-26 Top elev. Measured Water table elev.	277.0 <u>4.6</u> 272.4	277.0 <u> </u> <u> </u>	277.0 <u>5.5</u> 271.5	277.0 <u>5.6</u> 271.4	277.0 <u>5.7</u> 271.3	277.0 <u> </u> <u> </u>
H-30 Top elev. Measured Water table elev.	308.0 <u>25.7</u> 282.3	308.0 <u> </u> <u> </u>	308.0 <u>25.9</u> 282.1	308.0 <u>25.6</u> 282.4	308.0 <u>25.4</u> 282.6	308.0 <u> </u> <u> </u>
H-35 Top elev. Measured Water table elev.	310.0 <u>25.7</u> 284.3	310.0 <u> </u> <u> </u>	310.0 <u>24.6</u> 285.4	310.0 <u>23.5</u> 286.5	310.0 <u>23.0</u> 287.0	310.0 <u> </u> <u> </u>
H-36 Top elev. Measured Water table elev.	286.0 <u>22.5</u> 263.5	286.0 <u> </u> <u> </u>	286.0 <u>22.2</u> 263.8	286.0 <u>20.7</u> 265.3	286.0 <u>22.3</u> 263.7	286.0 <u> </u> <u> </u>
H-37 Top elev. Measured Water table elev.	298.0 <u>29.6</u> 268.4	298.0 <u> </u> <u> </u>	298.0 <u>28.5</u> 269.5	298.0 <u>27.6</u> 270.4	298.0 <u>27.7</u> 270.3	298.0 <u> </u> <u> </u>
H-38 Top elev. Measured Water table elev.	307.0 <u>29.2</u> 277.8	307.0 <u> </u> <u> </u>	307.0 <u>27.0</u> 280.0	307.0 <u>25.6</u> 281.4	307.0 <u>25.5</u> 281.5	307.0 <u> </u> <u> </u>
H-39 Top elev. Measured Water table elev.	291.0 <u>13.2</u> 277.8	291.0 <u> </u> <u> </u>	291.0 <u>12.8</u> 278.2	291.0 <u>12.4</u> 278.6	291.0 <u>12.4</u> 278.6	291.0 <u> </u> <u> </u>
I-40 Top elev. Measured Water table elev.	307.5 <u>24.5</u> 283.0	307.5 <u> </u> <u> </u>	307.5 <u>20.0</u> 287.5	307.5 <u>18.1</u> 288.4	307.5 <u>20.9</u> 286.6	307.5 <u> </u> <u> </u>
I-41 Top elev. Measured Water table elev.	317.0 <u>30.6</u> 286.4	317.0 <u> </u> <u> </u>	317.0 <u>28.6</u> 288.4	317.0 <u>27.7</u> 289.3	317.0 <u>27.6</u> 289.4	317.0 <u> </u> <u> </u>

Reservoir
Surface elevation

* See map for locations

285.9

Big Canyon Reservoir pizomete. readings *

YEAR 98 Jul. ___ Aug. ___ Sep. 30 Oct. 30 Nov. 30 Dec. ___

SL-1 Top elev. Measured Water table elev.	309.1	309.1	309.1 10.0	309.1 10.9	309.1 9.0	309.1
SL-2 Top elev. Measured Water table elev.	308.8	308.8	308.8 49.9	308.8 50.0	308.8 50.0	308.8
G-26 Top elev. Measured Water table elev.	277.0	277.0	277.0	277.0 5.0	277.0 5.0	277.0
H-30 Top elev. Measured Water table elev.	308.0	308.0	308.0 24.5	308.0 25.0	308.0 24.1	308.0
H-35 Top elev. Measured Water table elev.	310.0	310.0	310.0 20.0	310.0 23.8	310.0 18.6	310.0
H-36 Top elev. Measured Water table elev.	286.0	286.0	286.0 23.0	286.0 23.1	286.0 23.7	286.0
H-37 Top elev. Measured Water table elev.	298.0	298.0	298.0 26.7	298.0 27.1	298.0 26.3	298.0
H-38 Top elev. Measured Water table elev.	307.0	307.0	307.0 25.0	307.0 23.8	307.0 25.8	307.0
H-39 Top elev. Measured Water table elev.	291.0	291.0	291.0 11.5	291.0 11.5	291.0 11.5	291.0
I-40 Top elev. Measured Water table elev.	307.5	307.5	307.5 21.3	307.5 22.6	307.5 22.5	307.5
I-41 Top elev. Measured Water table elev.	317.0	317.0	317.0 25.5	317.0 25.5	317.0 23.0	317.0

Reservoir
Synapse
Locations

* See map for locations

277.2 284.7

Big Canyon Reservoir pizometer readings *

YEAR 1999

Jul. ✓

Aug. ---

Sep. ✓

Oct. ✓

Nov. ✓

Dec. ---

SL-1 Top elev. Measured	309.1	309.1	309.1	309.1	309.1	309.1
Water table elev.		?	10.2	10.4		
SL-2 Top elev. Measured	308.8	308.8	308.8	308.8	308.8	308.8
Water table elev.		53.4	55.0	55.1	53.2	60.6
S-26 Top elev. Measured	277.0	277.0	277.0	277.0	277.0	277.0
Water table elev.		5.8	5.9	5.9	5.8	4.0
H-30 Top elev. Measured	308.0	308.0	308.0	308.0	308.0	308.0
Water table elev.		?	26.8	26.5	25.1	26.4
H-35 Top elev. Measured	310.0	310.0	310.0	310.0	310.0	310.0
Water table elev.		25.4	25.9	25.7	25.4	26.2
H-36 Top elev. Measured	286.0	286.0	286.0	286.0	286.0	286.0
Water table elev.		24.1	24.0	24.1	23.5	24.2
H-37 Top elev. Measured	298.0	298.0	298.0	298.0	298.0	298.0
Water table elev.		28.2	28.0	28.2	24.7	25.2
H-38 Top elev. Measured	307.0	307.0	307.0	307.0	307.0	307.0
Water table elev.		21.8	27.0	27.1	26.8	27.2
H-39 Top elev. Measured	291.0	291.0	291.0	291.0	291.0	291.0
Water table elev.		14.1	12.8	12.7	12.3	13.9
I-40 Top elev. Measured	307.5	307.5	307.5	307.5	307.5	307.5
Water table elev.		?				
I-41 Top elev. Measured	317.0	317.0	317.0	317.0	317.0	317.0
Water table elev.		30.6	31.0	31.2	30.2	30.2

BOR Surface
Elevation

* See map for locations
281.44 279.67 284.1

289.13 292.5 292.5

Big Canyon Reservoir pizometer readings *

YEAR 1999

Jan. ___

Feb. X

Mar. X

Apr. X

May. ___

Jun. 30

SL-1 Top elev. Measured Water table elev.	309.1 ----- 309.1	309.1 25.9 ----- 309.1	309.1 25.7 ----- 309.1	309.1 25.2 ----- 309.1	309.1 ----- 309.1	309.1 9.8 ----- 309.1
SL-2 Top elev. Measured Water table elev.	308.8 ----- 308.8	308.8 33.7 ----- 308.8	308.8 32.9 ----- 308.8	308.8 32.1 ----- 308.8	308.8 ----- 308.8	308.8 52.8 ----- 308.8
G-26 Top elev. Measured Water table elev.	277.0 ----- 277.0	277.0 5.2 ----- 277.0	277.0 6.1 ----- 277.0	277.0 6.8 ----- 277.0	277.0 ----- 277.0	277.0 5.5 ----- 277.0
H-30 Top elev. Measured Water table elev.	308.0 ----- 308.0	308.0 25.9 ----- 308.0	308.0 26.2 ----- 308.0	308.0 6.4 ----- 308.0	308.0 ----- 308.0	308.0 ----- 308.0
H-35 Top elev. Measured Water table elev.	310.0 ----- 310.0	310.0 19.8 ----- 310.0	310.0 18.9 ----- 310.0	310.0 18.6 ----- 310.0	310.0 ----- 310.0	310.0 25.0 ----- 310.0
H-36 Top elev. Measured Water table elev.	286.0 ----- 286.0	286.0 22.5 ----- 286.0	286.0 21.2 ----- 286.0	286.0 21.6 ----- 286.0	286.0 23.6 ----- 286.0	286.0 23.6 ----- 286.0
H-37 Top elev. Measured Water table elev.	298.0 ----- 298.0	298.0 27.5 ----- 298.0	298.0 27.9 ----- 298.0	298.0 28.1 ----- 298.0	298.0 27.7 ----- 298.0	298.0 27.11 ----- 298.0
H-38 Top elev. Measured Water table elev.	307.0 ----- 307.0	307.0 20.9 ----- 307.0	307.0 21.2 ----- 307.0	307.0 21.4 ----- 307.0	307.0 ----- 307.0	307.0 ----- 307.0
H-39 Top elev. Measured Water table elev.	291.0 ----- 291.0	291.0 12.2 ----- 291.0	291.0 12.8 ----- 291.0	291.0 12.7 ----- 291.0	291.0 ----- 291.0	291.0 13.2 ----- 291.0
I-40 Top elev. Measured Water table elev.	307.5 ----- 307.5	307.5 8.8 ----- 307.5	307.5 9.2 ----- 307.5	307.5 9.4 ----- 307.5	307.5 ----- 307.5	307.5 9.8 ----- 307.5
I-41 Top elev. Measured Water table elev.	317.0 ----- 317.0	317.0 28.4 ----- 317.0	317.0 29.1 ----- 317.0	317.0 29.1 ----- 317.0	317.0 ----- 317.0	317.0 30.2 ----- 317.0

* See map for locations