cy -

	RID Well #	Location	ADWR Designation
✓	84	5¾ E 4½ N	(A-1-1) 12 dba
✓	85	6 E 4 N	(A-1-2) 7 ccc
✓	86	6½ E 3¾ N	(A-1-2) 18 acb
✓	87	7½ E 3½ N	(A-1-2) 17 caa
✓	88	8 E 3½ N	(A-1-2) 17 add
✓	89	8 E 4¼ N	(A-1-2) 9 cbc
✓	90	8½ E 3½ N	(A-1-2) 16 dbb
✓	91	9 E 3½ N	(A-1-2) 15 bcc
✓	92	9 E 4¼ N	(A-1-2) 10 cbc
✓	93	9½ E 3½ N	(A-1-2) 15 acc
✓	94	10 E 3¾ N	(A-1-2) 14 bcb
✓	95	10 E 4¼ N	(A-1-2) 11 cbc
✓	96	10⅛ E 3¼ N	(A-1-2) 14 ccb
✓	97	10½ E 3⅛ N	(A-1-2) 14 cdd
✓	98	11 E 3 N	(A-1-2) 24 bbb
✓	99	11 E 3¾ N	(A-1-2) 14 aad
✓	100	11 E 4¼ N	(A-1-2) 12 ccb
✓	101	11½ E 3 N	(A-1-2) 13 cdd
✓	102	11¾ E 3¾ N	(A-1-2) 13 abd
✓	103	12 E 3¼ N	(A-1-2) 13 dad
✓	104	12⅛ E 3¾ N	(A-1-2) 13 ada
✓	105	5 E 5 N	(A-1-1) 12 bbb
✓	106	6 E 5 N	(A-1-2) 7 bbb
✓	107	7 E 5 N	(A-1-2) 8 bbb
✓	108	7½ E 5 N	(A-1-2) 8 baa
✓	109	8 E 5 N	(A-1-2) 9 bbb
✓	110	9 E 5 N	(A-1-2) 9 aab
✓	111	9¾ E 5 N	(A-1-2) 10 aba

RID Well #	Location	ADWR Designation
112	10½E 5N	(A-1-2) 11 baa
113	11E 5N	(A-1-2) 11 aaa
114	11½E 5N	(A-1-2) 12 baa

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 73

Description of Sample 5 3/4 E - 4 1/2 N (A-1-1) 12 dba RID #84

Date Sampled _____ Time _____ Temp _____ Discharge MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	5.54	18.02	111	20.04
Magnesium	Mg	4.40	14.32	54	12.16
Sodium	Na	20.54	66.85	473	23.00
Potassium	K	0.15	0.50	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.10	0.31	1.04	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		30.73		644.07	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	10.00	32.43	610	61.02
Chloride	Cl	14.55	47.21	516	35.46
Sulfate	SO_4	5.40	17.51	259	48.03
Nitrate	NO_3	0.79	2.56	49	62.01
Fluoride	F	0.09	0.29	1.70	19.00
Phosphate	PO_4	0.00	0.00	0.04	31.66
TOTAL ANIONS		30.82		1125.75	

Conductivity 25° C K = 2930 x 10^{-6}

pH 7.8

Total Dissolved Solids mg per liter 1770

Total Hardness mg per liter 497

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 744

% Sodium 66.85

1986 RID # 84

SAMPLE ID: 5 3/4E 4 1/2N LAB NO: 448

	RV-ME	RV-%	MG/L
CALCIUM	4.73	19.34	94.75
MAGNESIUM	4.03	16.48	49.00
SODIUM	15.47	63.27	355.80
POTASSIUM	0.13	0.54	5.17
BORON	0.09	0.38	1.00
TOTAL	24.45	100.00	505.72
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.64	33.97	527.04
CHLORIDE	11.51	45.25	408.00
SULFATE	4.32	16.98	207.36
NITRATE	.92	3.62	57.07
FLUORIDE	0.04	0.17	0.82
PHOSPHATE	0.00	0.00	0.05
TOTAL	25.43	100.00	932.39

CONDUCTIVITY	2350.00
PH	7.50
TDS	1438.11
TH	438.27
NC HARDNESS	0.00
ALKALINITY	642.65
% SODIUM	63.27

1987 RID #84

SAMPLE ID: 5 3/4E 4 1/2N LAB NO: 227

	RV-ME	RV-%	MG/L
CALCIUM	4.69	19.51	94.00
MAGNESIUM	3.29	13.69	40.00
SODIUM	15.89	66.09	365.40
POTASSIUM	0.09	0.39	3.68
BORON	0.08	0.31	0.82
TOTAL	24.04	100.00	503.90
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.48	34.51	517.28
CHLORIDE	12.13	49.36	430.00
SULFATE	2.99	12.19	143.84
NITRATE	.91	3.71	56.48
FLUORIDE	0.06	0.23	1.09
PHOSPHATE	0.00	0.00	0.01
TOTAL	24.57	100.00	855.72

CONDUTIVITY	2300.00
PH	7.30
TDS	1389.62
TH	399.36
NC HARDNESS	1001.03
ALKALINITY	630.75
% SODIUM	66.09

1988 RID # 84

SAMPLE ID: 53/4E-41/2N LAB. NO: 147

	RV-ME	RV-%	MG/L
CALCIUM	5.40	20.49	108.25
MAGNESIUM	4.03	15.29	49.00
SODIUM	16.72	63.44	384.60
POTASSIUM	0.13	0.50	5.16
BORON	0.07	0.28	0.79
TOTAL	26.36	100.00	547.80
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.12	30.47	495.32
CHLORIDE	13.68	51.34	485.00
SULFATE	3.81	14.30	183.00
NITRATE	0.99	3.72	61.47
FLUORIDE	0.05	0.17	0.87
PHOSPHATE	0.00	0.00	0.04
TOTAL	26.64	100.00	973.88

CONDUCTIVITY	2400.00
PH	7.30
TDS	1521.68
TH	471.98
NC HARDNESS	0.00
ALKALINITY	603.98
% SODIUM	63.44

1989 RID #84

SAMPLE ID: 5 3/4E-4 1/2 N LAB. NO: 187

	RV-ME	RV-%	MG/L
CALCIUM	4.81	21.14	96.30
MAGNESIUM	3.78	16.64	46.00
SODIUM	13.91	61.21	320.00
POTASSIUM	0.16	0.69	6.10
BORON	0.07	0.31	0.77
TOTAL	22.73	100.00	469.17
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.24	32.84	502.64
CHLORIDE	12.13	48.35	430.00
SULFATE	4.50	17.93	216.00
NITRATE	0.18	0.70	10.85
FLUORIDE	0.05	0.18	0.87
PHOSPHATE	0.00	0.00	0.03
TOTAL	25.08	100.00	904.85
CONDUCTIVITY	2.40		
PH	7.30		
TDS	1374.02		
TH	429.80		
NC HARDNESS	0.00		
ALKALINITY	612.90		
% SODIUM	61.21		

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

4533

Report on WELL 6E-4N (#85)

Work started - February 20th, 1952
Work Completed - April 11th, 1952
Total Depth - 700'
Depth of Casing 700' - 20"

Log of Well

0' - 16' Soil
16' - 220' Boulders
220' - 260' Clay
260' - 280' Gravel
280' - 500' Soft clay
500' - 700' Hard clay

Perforations

Perforated 135' to 682'
Perforations 5/8" X 3½" - 10 holes per 12"

Depth at which water was first found 90'
Standing level before perforating 92'
Standing Level after perforating 92'

Remarks

Drilled by Roscoe Moss Company
Driller - J. N. Lard

Cost

Drilling and Casing Well 700' - - - $10,322.00

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 76

Description of Sample 6 E-4 N (A-1-2)7ccc RID#85

Date Sampled _____ Time _____ Temp _____ Discharge _____ MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.62	17.09	93	20.04
Magnesium	Mg	2.94	10.89	34	12.16
Sodium	Na	19.22	71.15	442	23.00
Potassium	K	0.15	0.57	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.08	0.30	0.88	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		27.01		577.16	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	9.20	36.04	561	61.02
Chloride	Cl	11.51	45.09	408	35.46
Sulfate	SO_4	4.08	15.98	196	48.03
Nitrate	NO_3	0.65	2.55	40	62.01
Fluoride	F	0.08	0.33	1.60	19.00
Phosphate	PO_4	0.00	0.01	0.07	31.66
TOTAL ANIONS		25.52		921.80	

Conductivity 25° C K = 2520 x 10^{-6}

pH 7.8

Total Dissolved Solids mg per liter 1499

Total Hardness mg per liter 378

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 684

% Sodium 71.15

1986 RID # 85

SAMPLE ID:	6E 4N	LAB NO:	449
	RV-ME	RV-%	MG/L
CALCIUM	4.09	16.74	82.00
MAGNESIUM	3.00	12.28	36.50
SODIUM	17.14	70.12	394.20
POTASSIUM	0.13	0.54	5.15
BORON	0.08	0.32	0.86
TOTAL	24.44	100.00	518.71
CARBONATE	0.00	0.00	0.00
BICARBONATE	9.20	37.28	561.20
CHLORIDE	11.05	44.81	392.00
SULFATE	3.60	14.58	172.80
NITRATE	0.77	3.13	47.86
FLUORIDE	0.05	0.19	0.91
PHOSPHATE	0.00	0.01	0.05
TOTAL	24.67	100.00	889.51

CONDUCTIVITY	2140.00
PH	7.60
TDS	1408.21
TH	354.99
NC HARDNESS	0.00
ALKALINITY	684.31
% SODIUM	70.12

1987 RID #85

SAMPLE ID:	6E 4N	LAB. NO:	340
	RV-ME	RV-%	MG/L
CALCIUM	3.23	14.88	64.75
MAGNESIUM	2.20	10.13	26.75
SODIUM	16.09	74.10	370.00
POTASSIUM	0.13	0.61	5.17
BORON	0.06	0.28	0.65
TOTAL	21.71	100.00	467.32
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.72	39.96	531.92
CHLORIDE	8.91	40.85	316.00
SULFATE	3.09	14.17	148.48
NITRATE	1.03	4.71	63.68
FLUORIDE	0.07	0.31	1.30
PHOSPHATE	0.00	0.01	0.04
TOTAL	21.82	100.00	790.99

CONDUCTIVITY	2380.00
PH	7.20
TDS	1258.31
TH	271.78
NC HARDNESS	0.00
ALKALINITY	648.60
% SODIUM	74.10

1988 RID # 85

SAMPLE ID: 6E-6N LAB. NO: 32Y

	MV-ME	RV-%	MG/L
CALCIUM	4.02	17.12	64.25
MAGNESIUM	2.75	12.46	29.95
SODIUM	16.76	71.47	384.52
POTASSIUM	0.14	0.62	5.65
BORON	0.07	0.31	0.78
TOTAL	23.34	100.00	501.03
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.28	35.59	564.38
CHLORIDE	14.44	44.52	330.70
SULFATE	3.12	12.99	150.04
NITRATE	0.09	0.71	35.39
FLUORIDE	0.02	0.11	0.35
PHOSPHATE	0.02	0.01	0.07
TOTAL	24.04	100.00	864.19

CONDUCTIVITY	2200.00
PH	7.50
TDS	1365.32
TH	322.84
NC HARDNESS	0.00
ALKALINITY	590.46
% SODIUM	71.47

1989 RID# 85

SAMPLE ID: 6E-4N LAB. NO: 189

	RV-ME	RV-%	MG/L
CALCIUM	3.33	17.03	66.80
MAGNESIUM	2.63	13.45	32.00
SODIUM	13.38	68.39	307.80
POTASSIUM	0.15	0.74	5.70
BORON	0.08	0.39	0.82
TOTAL	19.57	100.00	413.12
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.16	37.86	497.76
CHLORIDE	9.48	43.98	336.00
SULFATE	3.75	17.39	180.00
NITRATE	0.12	0.56	7.42
FLUORIDE	0.04	0.20	0.82
PHOSPHATE	0.00	0.01	0.04
TOTAL	21.54	100.00	768.98
CONDUCTIVITY	2.10		
PH	7.40		
TDS	1182.10		
TH	298.51		
NC HARDNESS	0.00		
ALKALINITY	606.95		
% SODIUM	68.39		

RID # 85

W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner: Roosevelt Irrigation District (Name)
   Buckeye Arizona (Address)
2. Lessee or Operator: Operator (Name)
   (Address)
3. Driller: Perry Barnes (Name)
   E. N. Brown (Address)
4. Location of well: Twp. 1N Rge. 2E Section 7 SW ¼ SW ¼ SW ¼ (10-acre subdivision)
   6E — 4N

DESCRIPTION OF WELL

5. Total depth of hole 164 ft.
6. Type of casing 10 ga. D. C.
7. Diameter and length of casing 20 in. from 0 to 164 in. from ___ to ___, ___ in. from ___ to ___
8. Method of sealing at reduction points ___
9. Perforated from 55 to 158, from ___ to ___, from ___ to ___, from ___ to ___
10. Size of cuts 3/4" x 4" Number cuts per foot 12 per 12"
11. If screen was installed: Length ___ ft. Diam ___ in. Type ___
12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)
13. Date completed 4-7-28 (Month, Year) Deepened ___ (Month, Year)
14. Depth to water when drilled ___ ft. (If flowing well, so state.)
15. Present depth to water 79 ft. Date of measurement 5-1-46 (If flowing well, so state.)
16. Describe point from which depth measurements were made, and give sea-level elevation if available ___
17. If flowing well, state method of flow regulation ___

DISCHARGE DATA

18. Well discharge 13.25 gal. per min. or cu. ft. per sec. or miner's inches.
19. Method of discharge measurement ___ (weir, orifice, current meter, etc.)
20. Drawdown ___ ft.
21. Annual discharge in acre-feet, or number of hours pumped: 1944 ___ a.f. or ___ hrs. 1945 ___ a.f. or ___ hrs.
22. Purpose of use ___
23. Place of use: (See 24) Twp. ___ Rge. ___ Section ___ ___ Acres ___ (Legal subdivision)
    Twp. ___ Rge. ___ Section ___ ___ Acres ___ (Legal subdivision)
24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
    Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump ___ (turbine, centrifugal, etc.)
26. Kind of power Elec (electric, natural gas, etc.)
27. Horsepower rating of motor 150

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-2-46 by lj
File No. (A-1-2)7 ccc
Cross-referenced (Name) ___ by ___
Cross-referenced (Basin) ___ by ___
Cross-referenced ___ by ___

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	4	Soil
4	18	Hard caliche
18	36	Cal$che
36	44	Sandy clay
44	164	Gravel, Boulders and Sand
		Ground water at 17 feet, no change.

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

FORM W-6 1M 3-49 JAHN-TYLER (A-1-2)7 ccc Appl. No. S-31 Permit No. S-29

Land Department
Ground Water Division
State of Arizona

6E-4N

REPORT OF WELL DRILLED IN CRITICAL AREA

Report of Well Drilled in Critical Area is required to be made and filed with the State Land Commissioner upon completion of the construction of such well, pursuant to Section 10, Chapter 5, House Bill No. 2, Eighteenth Legislature, Sixth Special Session, 1948.

1. Owner Roosevelt Irrigation District (Name) Buckeye, Arizona (Address)
2. Lessee or Operator _____ (Name) _____ (Address)
3. Driller Roscoe Moss Co. (Name) Los Angeles, Calif. (Address)
4. Location of Well: Twp. 1 N. Rge. 2 E. Sec. 7 Legal Subdivision SW ¼ SW ¼ SW ¼ (10 acre subdivision)

   It is _____ (If less than ¼ mile) yards _____ (direction) from the nearest irrigation well. 6E-4N
5. Purpose of use Irrigation
6. Place of use: Twp. _____ Rge. _____ Section(s) _____, _____ (Legal Subdivision) Acres _____
7. If well is part of Irrigation District, Association, or Company, omit 6 and give name of project: District lands

DESCRIPTION OF WELL

8. Total depth of hole 700 ft. 9. Type of Casing Hard red steel
10. Diameter and length of casing: 20 in. from 0 ft. to 700 ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft.
11. Method of sealing at reduction points Not Reduced
12. Perforated from 135 ft. to 682 ft; from _____ ft. to _____ ft; from _____ ft. to _____ ft.
13. Size of cuts 5/8 x 3-1/2 Number of cuts per foot 10 per 12 inches
14. If screen was installed: Length _____ ft. Diameter _____ in. Type _____
15. Method of drilling Calif Type Cable Tool (drilled, dug, driven, bored, etc.)
16. Date completed April 11, 1952 (Month, Year) 17. Depth to water 90 ft. (If flowing well, so state)
18. Describe points from which depth measurements were made Ground Surface.

    Sea-level elevation _____ (If available)
19. Method of flow regulation if flowing well _____

REPORT OF PUMP INSTALLATION AND TEST

20. Tested well capacity _____ (gallons per minute) Method of measurement _____ (weir, orifice, meter, etc.)
21. Depth immediately prior to capacity test, from land surface to static water level _____ ft.
22. Non-flowing well: Drawdown _____ ft. measured after _____ (at least 4) hours of continuous operation, and while pump is still operating.
23. Flowing well: Shut-in pressure _____ ft. above the land surface, or _____ pounds per square inch at the land surface.
24. Kind of Pump _____ (turbine, centrifugal, etc.)
25. Kind of Power _____ (electric, natural gas, etc.)
26. Horsepower Rating of Motor _____
27. Permittee _____ (Signature)

DO NOT WRITE IN THIS SPACE OFFICE RECORD			
Received	6-3-52	by	lec
Filed	6-19-52	by	lec
File No.	(A-1-2) 7 ccc		
Cross-referenced (Name)		by	
Cross-referenced (Basin)		by	
Cross-referenced		by	

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water-bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (feet)	TO (feet)	DESCRIPTION OF FORMATION MATERIAL
0	16	Soil
16	220	Boulders
220	260	Clay
260	280	Gravel
280	500	Soft clay
500	700	Hard clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, California
Address

Date May 22, 1952

NOTE: Report and Log are to be completed by the permittee and driller, and mailed by the permittee to the Ground Water Division of the State Land Department immediately upon completion of the well and pumping test.

PRE-SAMPLING WELL INSPECTION FORM

KLEINFELDER, INC

Legal well designation: (A-1-2) 18Acb Other designation: RID #86

Date 8/1/90 Time: 5:00pm Inspector:

Well location address (give cross-streets): Between 59th + 67th Aves + Buckeye + Lower Buckeye

Contact name: Contact phone number:

Owner's name RID

Owner's address:

Owner's telephone number:

Was the owner contacted during this well inspection:

Depth to water from reference point (RP): PWL 107.6' Distance from R.P. to Ground Surface: 0

Depth to bottom of well from RP: R.P. identifiication edge of pump base

Depth to pump:

Location of access port for measuring water level:

Casing Diameter (inside): ~12"

Type of well casing: (Steel) Stainless steel PVC Other:

Apparent well status: (Active) Inactive

Apparent well use: irrigation

Type of pumping equipment installed: submersible (line-shaft turbine) none unknown

Is the well accessible for sampling: yes

Location and type of sampling port (i.e., hose bib, 3"gate valve, etc.)

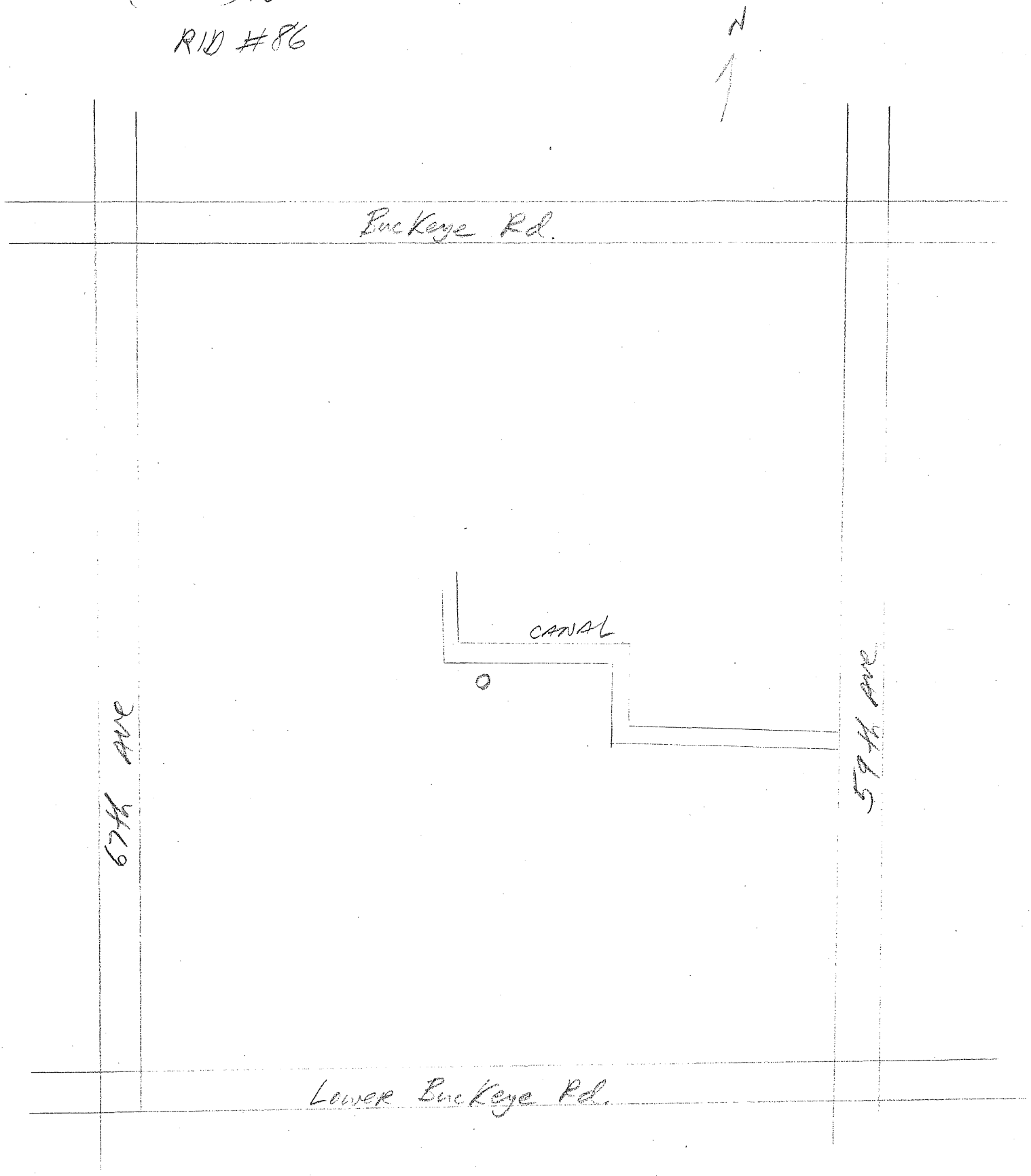
Describe special sampling equipment requirements:

Other information:

ATTACH LOCATION MAP!!!!!!!!!!!!!!!!!!

(A-1-2) 18 Acb

RID #86



Redrill

4534

WELL DATA

October 22, 1940

(#86)

Report on Well - $6\frac{1}{2}$ E - 3 $\frac{3}{4}$ N - Located 8 miles southwest of Phoenix, Arizona

Started Work October 8, 1940
Completed Work October 22, 1940
Depth of Hole - 300 Ft.
Depth of Casing - 300 Ft.
24 Inch 8 Gauge casing used and left in well
Size of Shoe - 24 x $26\frac{1}{2}$" x 16"

Log of Well

0'	-	7'	Soil
7	-	12	Coarse sand
12	-	35	Clay and caliche
35	-	153	Sand, gravel and boulders
135	-	222	Sand and gravel 2" streak clay
222	-	256	Hard clay
256	-	265	Sandy clay and gravel
265	-	280	Hard clay
280	-	300	Sandy clay

Perforations

55 to 288 Ft. 12 holes per 12 inches
Mills knife used
Perforations - 3/4" Diam. - 5" Length
Depth at which water was first found - 52 Ft.
Standing level before perforating - 52 Ft.
Standing level after perforating - 50 Ft.

Well is not straight, top to bottom, Very slight curve starting at approximately 150'

Remarks

Drilled by - Roscoe Moss Co.
Driller - K. Kirkland
Rig used - No. 21

$5.35 for casing - $3.00 for drilling.

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 75

Description of Sample 6 1/2 E-3 3/4 ⊥ (A-1-2) 18acb RID #86

Date Sampled _____ Time _____ Temp _____ Discharge _____ MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.15	18.00	83	20.04
Magnesium	Mg	2.80	12.12	34	12.16
Sodium	Na	15.90	68.91	364	23.00
Potassium	K	0.15	0.67	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.31	0.77	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		23.08		489.80	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	7.36	33.00	449	61.02
Chloride	Cl	10.38	46.54	368	35.46
Sulfate	SO_4	3.84	17.21	184	48.03
Nitrate	NO_3	0.66	2.96	41	62.01
Fluoride	F	0.06	0.28	1.20	19.00
Phosphate	PO_4	0.00	0.00	0.03	31.66
TOTAL ANIONS		22.30		815.23	

Conductivity 25° C K = 2350 x 10^{-6}

pH 7.9

Total Dissolved Solids mg per liter 1305

Total Hardness mg per liter 340

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 547

% Sodium 68.91

1986 RID#56

SAMPLE ID: 6 1/2E 3 3/4N LAB NO: 451

	RV-ME	RV-%	MG/L
CALCIUM	3.44	16.62	69.00
MAGNESIUM	2.43	11.71	29.50
SODIUM	14.63	70.63	336.50
POTASSIUM	0.13	0.64	5.17
BORON	0.08	0.40	0.89
TOTAL	20.71	100.00	441.06
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.24	38.98	502.64
CHLORIDE	9.25	43.77	328.00
SULFATE	2.76	13.05	132.48
NITRATE	0.81	3.85	50.46
FLUORIDE	0.07	0.35	1.40
PHOSPHATE	0.00	0.01	0.04
TOTAL	21.13	100.00	759.47

CONDUCTIVITY	1850.00
PH	7.50
TDS	1200.54
TH	293.72
NC HARDNESS	0.00
ALKALINITY	612.90
% SODIUM	70.63

1987 RID# 86

SAMPLE ID: 6 1/2E 3 3/4N LAB NO: 231

	RV-ME	RV-%	MG/L
CALCIUM	3.39	17.71	68.00
MAGNESIUM	2.23	11.63	27.10
SODIUM	13.38	69.82	307.70
POTASSIUM	0.09	0.49	3.68
BORON	0.07	0.35	0.73
TOTAL	19.16	100.00	407.21
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.60	38.16	463.60
CHLORIDE	8.97	45.05	318.00
SULFATE	2.46	12.37	118.32
NITRATE	.83	4.15	51.22
FLUORIDE	0.05	0.26	0.97
PHOSPHATE	0.00	0.01	0.05
TOTAL	19.91	100.00	716.46

CONDUTIVITY	1900.00
PH	7.50
TDS	1123.68
TH	281.34
NC HARDNESS	1001.03
ALKALINITY	565.30
% SODIUM	69.82

1988 RID # 86

SAMPLE ID: 61/2E-33/4N LAB NO: 149

	RV-ME	RV-%	MG/L
CALCIUM	3.74	18.53	75.00
MAGNESIUM	2.45	12.11	29.75
SODIUM	13.80	68.31	317.30
POTASSIUM	0.14	0.71	5.59
BORON	0.07	0.33	0.72
TOTAL	20.19	100.00	428.36
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.56	37.14	461.16
CHLORIDE	9.08	44.63	322.00
SULFATE	2.75	13.51	132.00
NITRATE	0.92	4.52	57.04
FLUORIDE	0.04	0.19	0.74
PHOSPHATE	0.00	0.01	0.07
TOTAL	20.35	100.00	738.55
CONDUCTIVITY	1900.00		
PH	7.40		
TDS	1166.91		
TH	309.73		
NC HARDNESS	0.00		
ALKALINITY	562.32		
% SODIUM	68.31		

1989 RID #86

SAMPLE ID: 6 1/2E-3 3/4N LAB. NO: 191

	RV-ME	RV-%	MG/L
CALCIUM	3.18	16.65	63.70
MAGNESIUM	2.30	12.06	28.00
SODIUM	13.38	70.10	307.80
POTASSIUM	0.16	0.84	6.30
BORON	0.07	0.34	0.71
TOTAL	19.09	100.00	406.51
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.88	36.35	419.68
CHLORIDE	8.63	45.61	306.00
SULFATE	3.19	16.84	153.00
NITRATE	0.17	0.88	10.30
FLUORIDE	0.06	0.32	1.15
PHOSPHATE	0.00	0.01	0.05
TOTAL	18.92	100.00	676.81
CONDUCTIVITY	1.90		
PH	7.40		
TDS	1083.32		
TH	274.31		
NC HARDNESS	0.00		
ALKALINITY	511.74		
% SODIUM	70.10		

RID#867

STATE LAND DEPARTMENT
GROUND WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

1. OWNER ROOSEVELT IRRIGATION DISTRICT (Name)
P. O. Box 95, Buckeye, AZ 85326 (Address)

2. LESSEE OR OPERATOR N/A (Name)
(Address)

3. DRILLER ROSCOE MOSS CO., Driller K. Kirkland (Name)
(Address)

4. LOCATION OF WELL: Twp. 1N Rge. 2E Section 18 NE ¼ SE ¼ NW ¼ (10-acre subdivision)
(6-1/2E-3-3/4N)

DESCRIPTION OF WELL

5. Total depth of hole 300 ft.
6. Type of casing Steel - 8 ga.
7. Diameter and length of casing 24 in. from 0 to 300', ____ in. from ____ to ____, ____ in. from ____ to ____
8. Perforated from 55' to 288', from ____ to ____, from ____ to ____, from ____ to ____
9. Size of cuts 3/4" x 5" Number cuts per foot 12
10. If screen was installed: Length N/A ft. Diam. ____ in. Type ____
11. Date completed October (Month) 1940 (Year) Deepened ____ (Month) ____ (Year)
12. Depth of water when drilled 52 ft. If flowing well, so state N/A
13. Present depth to water from land surface 71 ft. Date of measurement Dec. 1979
14. If flowing well, state method of flow regulation N/A

DISCHARGE DATA

15. Well discharge 11.8 sec. ft. 5310 g/MIN (gal. per min. or cu. ft. per sec. or miner's inches.)
16. Method of discharge measurement Pitot tube (weir, orifice, current meter, etc.)
17. Drawdown 28 ft.
18. Annual discharge in acre-feet or number of hours pumped: ~~1941~~ 1975 8203 a.f. or ____ hrs. ~~1945~~ 1976 6863 a.f. or ____ hrs.
19. Purpose of use Irrigation
20. Place of use: Twp. N/A Rge. ____ Section ____ ____ (Legal subdivision) Acres ____
(See 21)
Twp. ____ Rge. ____ Section ____ ____ (Legal subdivision) Acres ____
21. If well is part of irrigation system or Irrigation District, Association or Company, omit 20 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

22. Kind of pump turbine (turbine, centrifugal, etc.)
23. Kind of power electric (electric, natural gas, etc.)
24. Horsepower rating of motor 200 HP

DO NOT WRITE IN THIS SPACE

OFFICE RECORD

Received ____ by ____
Filed 5-4-80 by ____
File No. A(1-2) BDA

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	7	soil
7	12	coarse sand
12	35	clay and caliche
35	153	sand, gravel and boulders Water first found at 62'
153	222	sand and gravel 2" streak clay
222	256	hard clay
256	265	sandy clay and gravel
265	280	hard clay
280	300	sandy clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Roosevelt Irrigation District

George McLaughlin
Owner, Operator or Driller

P. O. Box 95, Buckeye, AZ 85326
Address

Date 5/15/80

RECEIVED MAY 16 1980 ARIZONA WATER COMMISSION

5-78

PRE-SAMPLING WELL INSPECTION FORM

KLEINFELDER, INC

Legal well designation: (A-1-2) 17CAA Other designation: RID #87

Date 8/1/90 Time: 3:30pm Inspector:

Well location address (give cross-streets): between 51st + 59 Ave + Buckeye + Lower Buckeye

Contact name: Contact phone number:

Owner's name RID

Owner's address:

Owner's telephone number:

Was the owner contacted during this well inspection:

Depth to water from reference point (RP): PWL 94.6' Distance from R.P. to Ground Surface: 0

Depth to bottom of well from RP: R.P. identifiication edge of pump base

Depth to pump:

Location of access port for measuring water level: slot in concrete

Casing Diameter (inside): ~12"

Type of well casing: (Steel) Stainless steel PVC Other:

Apparent well status: (Active) Inactive

Apparent well use: IRRIGATION

Type of pumping equipment installed: submersible (line-shaft turbine) none unknown

Is the well accessible for sampling: yes

Location and type of sampling port (i.e., hose bib, 3"gate valve, etc.)

Describe special sampling equipment requirements:

Other information:

ATTACH LOCATION MAP!!!!!!!!!!!!!!!!!!

(A-1-2)17CAA
RIB #87

N

Buckeye

CANAL

0

57th Ave

57th Ave

Lower Buckeye

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

Redrill

Report on Well 7 1/2E - 3 1/2N (#87)

Work started - June 24, 1947
Work completed - August 7, 1947
Total Depth - 500'
Depth of casing - 496'
496' of 20" 8 gauge used casing which belonged to R.I.D.
Size of Shoe - 20 X 14 X 1 1/4

Log of Well

0'	- 10'	- Top Soil
10	- 40	- Clay
40	- 70	- Cemented boulders
70	- 80	- Loose gravel
80	- 95	- Cemented boulders
95	- 212	- Loose gravel and boulders
212	- 246	- Tough Clay
246	- 290	- Sand and small boulders
290	- 500	- Hard brown clay

Perforations

Perforated 75' to 480' 10 holes per 12"
Diameter of Perforations 3/4"
Length of Perforations 4 1/4"
Depth at which water was first found - 65'
Standing level before perforating - 65'

Remarks

Drilled by Roscoe Moss Company
Driller - H. C. Cope
Rig No. 39

For machinery furnished and wages of men paid by us while drilling 20" No. 8 gauge well using your casing to a depth of 500 feet as per your Req. No. C-1122 dated October 21, 1946.

Drilling 20" No. 8 gauge well using your casing 500' @ 4.00 per foot $2,000.00

11 hrs....@ 8.00 per hour time of our men and equipment stripping your casing for use in well..... 88.00

$2,088.00

1985 (A-1-2)17caa RID#87

SAMPLE ID: 7 1/2E 3 1/2N LAB NO: 138

	RV-ME	RV-%	MG/L
CALCIUM	4.32	23.94	86.50
MAGNESIUM	2.86	15.85	34.75
SODIUM	10.60	58.82	243.90
POTASSIUM	0.17	0.95	6.67
BORON	0.08	0.44	0.87
TOTAL	18.03	100.00	372.69
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.60	30.15	341.60
CHLORIDE	9.25	49.82	328.00
SULFATE	2.94	15.82	141.12
NITRATE	.75	4.02	46.28
FLUORIDE	0.03	0.18	0.65
PHOSPHATE	0.00	0.01	0.05
TOTAL	18.57	100.00	684.03

CONDUCTIVITY	1840.00
PH	7.70
TDS	1056.72
TH	359.02
NC HARDNESS	0.00
ALKALINITY	416.53
% SODIUM	58.82

1986 RID#87

SAMPLE ID:	7 1/2E 3 1/2N	LAB NO:	453
	RV-ME	RV-%	MG/L
CALCIUM	4.30	24.32	86.25
MAGNESIUM	2.84	16.03	34.50
SODIUM	10.34	58.41	237.80
POTASSIUM	0.15	0.87	6.03
BORON	0.07	0.37	0.71
TOTAL	17.70	100.00	365.29
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.84	32.24	356.24
CHLORIDE	8.97	49.53	318.00
SULFATE	2.58	14.24	123.84
NITRATE	.67	3.68	41.31
FLUORIDE	0.06	0.31	1.05
PHOSPHATE	0.00	0.00	0.01
TOTAL	18.11	100.00	659.34
CONDUCTIVITY	1650.00		
PH	7.40		
TDS	1024.63		
TH	357.37		
NC HARDNESS	0.00		
ALKALINITY	434.39		
% SODIUM	58.41		

1987 RID#87

SAMPLE ID: 7 1/2E 3 1/2N LAB NO: 254

	RV-ME	RV-%	MG/L
CALCIUM	3.69	21.28	74.00
MAGNESIUM	2.23	12.85	27.10
SODIUM	11.29	65.06	259.60
POTASSIUM	0.08	0.43	2.94
BORON	0.07	0.38	0.71
TOTAL	17.35	100.00	364.35
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.76	33.14	351.36
CHLORIDE	8.07	46.42	286.00
SULFATE	2.91	16.74	139.66
NITRATE	.63	3.61	38.87
FLUORIDE	0.01	0.08	0.27
PHOSPHATE	0.00	0.01	0.04
TOTAL	17.37	100.00	637.58

CONDUTIVITY	1700.00
PH	7.30
TDS	1001.93
TH	296.32
NC HARDNESS	1001.03
ALKALINITY	428.44
% SODIUM	65.06

1988

1988 RID# 87

SAMPLE ID: 71/2E-31/2N LAB. NO: 150

	RV-ME	RV-%	MG/L
CALCIUM	4.15	24.37	83.25
MAGNESIUM	2.59	15.19	31.50
SODIUM	10.09	59.19	232.10
POTASSIUM	0.15	0.90	6.02
BORON	0.06	0.35	0.65
TOTAL	17.05	100.00	353.52
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.80	33.87	353.80
CHLORIDE	8.12	47.44	288.00
SULFATE	2.50	14.59	120.00
NITRATE	0.67	3.93	41.75
FLUORIDE	0.03	0.15	0.49
PHOSPHATE	0.00	0.01	0.07
TOTAL	17.12	100.00	624.24

CONDUCTIVITY	1600.00
PH	7.30
TDS	977.76
TH	337.53
NC HARDNESS	0.00
ALKALINITY	421.41
% SODIUM	59.19

1989 RID# 87

SAMPLE ID: 7 1/2E 3 1/2 LAB. NO: 252

	RV-ME	RV-%	MG/L
CALCIUM	3.59	22.61	72.00
MAGNESIUM	2.27	14.28	27.60
SODIUM	9.83	61.82	226.00
POTASSIUM	0.14	0.86	5.36
BORON	0.07	0.43	0.73
TOTAL	15.89	100.00	331.69
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.52	35.99	336.72
CHLORIDE	7.39	48.19	262.02
SULFATE	2.31	15.07	111.00
NITRATE	0.09	0.57	5.43
FLUORIDE	0.03	0.17	0.49
PHOSPHATE	0.00	0.01	0.04
TOTAL	15.33	100.00	544.49
CONDUCTIVITY	1.51		
PH	7.40		
TDS	876.18		
TH	293.39		
NC HARDNESS	0.00		
ALKALINITY	410.58		
% SODIUM	61.82		

RID #87

FORM W-2 3M 8-46 JAHN-TYLER

7 1/2 E - 3 1/2 N

Rio Salado canal

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District
Name
Buckeye, Arizona.
Address

RECEIVED AUG 12 1947 WATER DIVISION State Land Department

2. Lessee or Operator _____
Name
_____
Address

3. Driller Roscoe Moss Company
Name
4360 Worth Street, Los Angeles, California.
Address

4. Location of well: Twp. 1 North Rge. 2 East Section 17 ___ ¼ ___ ¼ ___ ¼
10-acre subdivision

DESCRIPTION OF WELL

5. Total depth of hole 500 ft.

6. Type of casing Hard Red Steel

7. Diameter and length of casing 20 in. from 0 to 500, ___ in. from ___ to ___, ___ in. from ___ to ___

8. Method of sealing at reduction points Not Reduced

9. Perforated from 75 to 480, from ___ to ___, from ___ to ___, from ___ to ___

10. Size of cuts 4¼ 3/4 Number cuts per foot 10 per 12

11. If screen was installed: Length None ft. Diam. ___ in. Type ___

12. Method of construction Drilled California Type Cable Tool
drilled, dug, driven, bored, jetted, etc.

13. Date completed August 8, 1947 Deepened ___
Month Year Month Year

14. Depth to water when drilled 65 ft.
If flowing well, so state.

15. Present depth to water Not flowing ft. Date of measurement ___
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available ___

17. If flowing well, state method of flow regulation ___

DISCHARGE DATA

Not tested.

18. Well discharge ___
gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ___
weir, orifice, current meter, etc.

20. Drawdown ___ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ___ a.f. or ___ hrs. 1945 ___ a.f. or ___ hrs.

22. Purpose of use ___

23. Place of use: (See 24) Twp. ___ Rge. ___ Section ___ ___ Acres ___
Legal subdivision
Twp. ___ Rge. ___ Section ___ ___ Acres ___
Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.

___
Name of Project

(A-1-2)17

EQUIPMENT DATA

25. Kind of pump ___
turbine, centrifugal, etc.

26. Kind of power ___
electric, natural gas, etc.

27. Horsepower rating of motor ___

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 8-12-47 by lj
Filed 8-19-47 by lj
File No. (A-1-2)17 cdd
Cross-referenced (Name) ___ by ___
Cross-referenced (Basin) ___ by ___
Cross-referenced ___ by ___

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	10	Top Soil
10	40	Clay
40	70	Cemented boulders
70	80	Loose gravel
80	95	Cemented boulders
95	212	Loose gravel and boulders
212	246	Tough clay
246	290	Sand and small boulders
290	500	Hard brown clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Roscoe Moss Company
Owner, Operator or Driller

4360 Worth St, Los Angeles, Calif
Address

Date August 11, 1047

PRE-SAMPLING WELL INSPECTION FORM

KLEINFELDER, INC

Legal well designation: (A-1-2) 17Add Other designation: RID #88

Date 8/1/90 Time: 3:00pm Inspector:

Well location address (give cross-streets): 51st Ave between Buckeye + Lower Buckeye

Contact name: Contact phone number:

Owner's name RID

Owner's address:

Owner's telephone number:

Was the owner contacted during this well inspection:

Depth to water from reference point (RP): PWL 112' Distance from R.P. to Ground Surface: 0

Depth to bottom of well from RP: R.P. identifiication Edge of pump base

Depth to pump:

Location of access port for measuring water level: slot in concrete

Casing Diameter (inside): ~12"

Type of well casing: Steel Stainless steel PVC Other:

Apparent well status: Active Inactive

Apparent well use: Irrigation

Type of pumping equipment installed: submersible line-shaft turbine none unknown

Is the well accessible for sampling: yes

Location and type of sampling port (i.e., hose bib, 3"gate valve, etc.)

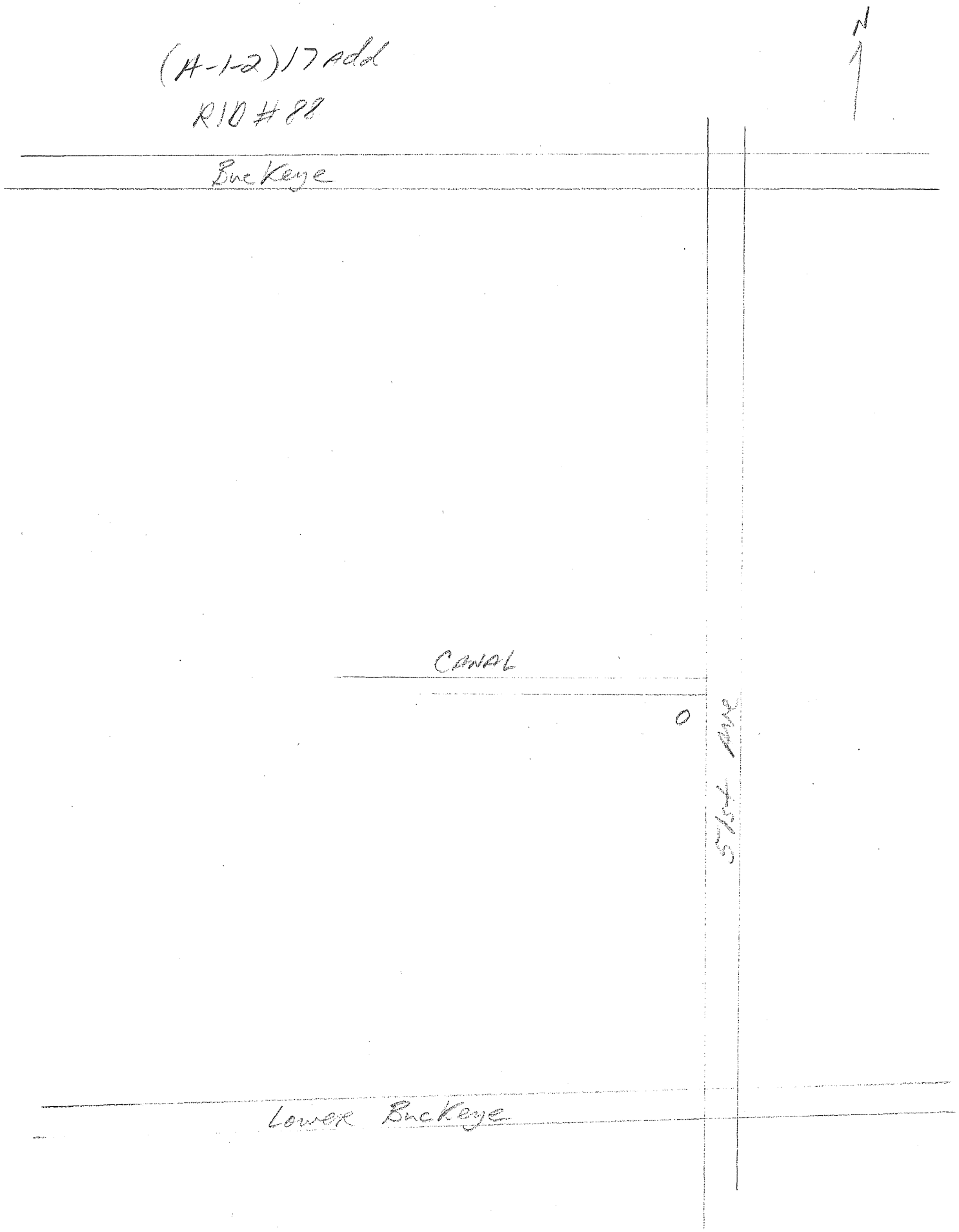
Describe special sampling equipment requirements:

Other information:

ATTACH LOCATION MAP!!!!!!!!!!!!!!!!!!

(A-1-2) 17 add

R10 #88



ROOSEVELT IRRIGATION DISTRICT

Report on Well 8 E - 3½ N (#88)

4537

Work started - - - May 12, 1964
Work completed - - November 29, 1964
Total depth- - - - 1800'
Depth of casing- - 838' of 24" 8 ga. used and left in well
680' of 20" 8 ga. used and left in well
310' of 16" 8 ga. used and left in well

Log of Well

0 -	2 -	fill
2 -	15 -	clay
15 -	204 -	sand, gravel, some boulders
204 -	218 -	sandy brown clay, some gravel stks
218 -	229 -	caliche
229 -	292 -	sand, gravel embedded in clay 4"
292 -	303 -	sticky sandy grey clay
303 -	374 -	streaks hard brown clay, and sticky grey clay
374 -	610 -	streaks sand, sticky grey and brown clay
610 -	865 -	streaks sticky and hard brown clay
865 -	1050 -	hard brown clay
1050 -	1145 -	hard brown clay, stks sandstone
1145 -	1180 -	sandy brown clay, stks sandstone
1180 -	1272 -	streaks brown clay, siltstone sandy brown clay
1272 -	1295 -	sand and gravel to 3"
1295 -	1373 -	sandy clay and gravel to 5"
1373 -	1395 -	sand and gravel to 3"
1395 -	1440 -	sandy clay and gravel to 1"
1440 -	1510 -	cemented sand and gravel to 1"
1510 -	1637 -	streaks cemented sand and gravel and sandy clay and gravel 3'
1637 -	1710 -	tight sand and gravel to 8"
1710 -	1800 -	hard sandy brown clay and embedded gravel to 4"

Perforations

Moss Hydraulic perforator used
165' to 285' - 12 holes per 5-5/16"
285' to 390' - 12 holes per 5"
390' to 820' - 6 holes per 10"
835' to 900' - 5 holes per 10"
900' to 1250' - 10 holes per 10¼"
1250' to 1485' - 10 holes per 5"
1500' to 1785' - 8 holes per 4"

Remarks

Well drilled by Roscoe Moss Co. - Rig #45
Driller - J. Vervoorn
Cable tool #45

August 8, 1966

4536

ROOSEVELT IRRIGATION DISTRICT

Well - 8 E - 3-1/2 N (#88)

Reperforating May 31, 1966 through August 1, 1966

Cut between old perforation

at 1245-835 feet - 20" casing
10 holes per round

at 825-500 feet - 24" casing
12 holes per round

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 77

Description of Sample 8 E-3 1/2 J (A-1-2) 17 add RID#88

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By MAR 01 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.15	24.01	83	20.04
Magnesium	Mg	3.00	17.35	37	12.16
Sodium	Na	9.95	57.48	229	23.00
Potassium	K	0.15	0.89	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.05	0.27	0.50	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		17.30		355.03	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	4.96	27.38	303	61.02
Chloride	Cl	10.04	55.43	356	35.46
Sulfate	SO_4	2.70	14.90	130	48.03
Nitrate	NO_3	0.37	2.05	23	62.01
Fluoride	F	0.04	0.23	0.80	19.00
Phosphate	PO_4	0.00	0.01	0.04	31.66
TOTAL ANIONS		18.11		658.18	

Conductivity 25° C K = 1890 x 10^{-6}

pH 7.8

Total Dissolved Solids mg per liter 1013

Total Hardness mg per liter 358

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 369

% Sodium 57.48

1986 R1D #88

SAMPLE ID:	8E 3 1/2N	LAB NO:	592
	RV-ME	RV-%	MG/L
CALCIUM	3.59	23.86	72.00
MAGNESIUM	2.75	18.29	33.50
SODIUM	8.54	56.70	196.40
POTASSIUM	0.13	0.85	5.00
BORON	0.05	0.30	0.49
TOTAL	15.06	100.00	307.39
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.32	27.92	263.52
CHLORIDE	8.86	57.25	317.00
SULFATE	1.64	10.62	78.88
NITRATE	.62	4.02	38.54
FLUORIDE	0.03	0.19	0.55
PHOSPHATE	0.00	0.00	0.01
TOTAL	15.47	100.00	561.53
CONDUCTIVITY	1530.00		
PH	7.50		
TDS	868.92		
TH	317.67		
NC HARDNESS	0.00		
ALKALINITY	321.33		
% SODIUM	56.70		

1987 RID# 88

SAMPLE ID: 8E 3 1/2N LAB NO: 243

	RV-ME	RV-%	MG/L
CALCIUM	3.49	22.50	70.00
MAGNESIUM	2.32	14.94	28.20
SODIUM	9.57	61.67	220.20
POTASSIUM	0.08	0.55	3.31
BORON	0.05	0.34	0.57
TOTAL	15.52	100.00	322.28
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.12	32.81	312.32
CHLORIDE	7.95	50.98	282.00
SULFATE	1.99	12.76	95.58
NITRATE	.50	3.18	30.79
FLUORIDE	0.04	0.28	0.82
PHOSPHATE	0.00	0.00	0.01
TOTAL	15.60	100.00	562.73

CONDUTIVITY	1500.00
PH	7.20
TDS	885.01
TH	290.86
NC HARDNESS	1001.03
ALKALINITY	380.83
% SODIUM	61.67

1988 RID # 88

SAMPLE ID: 8E-31/2N LAB. NO: 151

	RV-ME	RV-%	MG/L
CALCIUM	3.95	24.34	79.25
MAGNESIUM	2.51	15.44	30.50
SODIUM	9.57	58.92	220.20
POTASSIUM	0.15	0.95	6.02
BORON	0.06	0.37	0.64
TOTAL	16.25	100.00	336.61
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.56	33.88	339.16
CHLORIDE	8.12	49.51	288.00
SULFATE	2.12	12.95	102.00
NITRATE	0.56	3.42	34.87
FLUORIDE	0.04	0.22	0.70
PHOSPHATE	0.02	0.01	0.03
TOTAL	16.42	100.00	551.34
CONDUCTIVITY	1500.00		
PH	7.30		
DS	928.96		
TH	323.43		
NC HARDNESS	0.00		
ALKALINITY	413.56		
% SODIUM	58.92		

1989 RID# 88

SAMPLE ID: 8E-3 1/2N LAB. NO: 197

	RV-ME	RV-%	MG/L
CALCIUM	3.22	18.51	64.60
MAGNESIUM	2.14	12.28	26.00
SODIUM	11.87	68.17	273.00
POTASSIUM	0.16	0.93	6.30
BORON	0.02	0.10	0.20
TOTAL	17.41	100.00	370.10
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.44	33.15	331.84
CHLORIDE	7.90	48.13	280.00
SULFATE	2.94	17.89	141.00
NITRATE	0.10	0.59	5.98
FLUORIDE	0.04	0.23	0.71
PHOSPHATE	0.00	0.01	0.04
TOTAL	16.41	100.00	590.86
CONDUCTIVITY	1.56		
PH	7.40		
TDS	960.96		
TH	268.32		
NC HARDNESS	0.00		
ALKALINITY	404.63		
% SODIUM	68.17		

RID# 887

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller H. C. Cope (Name)
Roscoe Moss Co. (Address)

4. Location of well: Twp. 1N Rge. 2E Section 16 NW ¼ NW ¼ SW ¼ (10-acre subdivision)
8E - 3½ m.

DESCRIPTION OF WELL

5. Total depth of hole 340 ft.

6. Type of casing 8 ga.

7. Diameter and length of casing 24 in. from 0 to 31½, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 50' to 302', from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 3/4" X 5" Number cuts per foot 12 per 10"

11. If screen was installed: Length ____ ft. Diam. ____ in. Type ____

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed July 11 - '44 (Month, Year) Deepened Redrilled to above (Month, Year)

14. Depth to water when drilled 40 ft. (If flowing well, so state.)

15. Present depth to water 71.5 ft. Date of measurement 5-1-46 (If flowing well, so state.)

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 13.5 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____ weir, orifice, current meter, etc.

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: (See 24) Twp. ____ Rge. ____ Section ____ ____ Legal subdivision ____ Acres ____
Twp. ____ Rge. ____ Section ____ ____ Legal subdivision ____ Acres ____

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump turbine, centrifugal, etc.

26. Kind of power Elec. electric, natural gas, etc.

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-2-46 by lj
File No. (A-1-2)16 cbb
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	12	Top soil
12	16	Sand
16	28	Clay
28	90	Sand and boulders
90	130	Coarse gravel and sand 3"
130	150	Boulders
150	156	Clay
156	200	Boulders
200	235	Hard Clay
235	266	Coarse gravel 2"
266	274	Fine sand
274	290	Sand with cemented streaks
290	340	Hard brown clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

RID# 88?

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REPORT OF WELL DRILLER

IMPORTANT
PLEASE COMPLETE AND RETURN

This report should be prepared by the driller in all detail and filed with the State Land Commissioner following completion of the well.

3/10/65

1. OWNER ROOSEVELT IRRIGATION DISTRICT (Name)
P. O. Box 95, Buckeye, Arizona (Address)

2. Lessee or Operator ..... (Name)
..... (Address)

3. DRILLER Roscoe Moss Company (Name)
4360 Worth Street, Los Anglees, California. (Address)

4. Location of well: Twp. 1-N Rge. 2-E Section ~~18~~ 17 ~~SW~~ SE ¼ SE ¼ NE ¼ (10-acre subdivision)

5. Intention to Drill File No. A(1-2)17 add Permit No. S-745

DESCRIPTION OF WELL

6. Total depth of hole 1800 ft.

7. Type of casing Double well casing kai-well

8. Diameter and length of casing 24" 0 to 838' 20" casing 826 to 1505' 16" from 1490 to 1800' in. from ..... to ....., ... in. from ..... to ....., ... in. from ..... to .....

9. Method of sealing at reduction points .....

10. Perforated from See back of this form for perforating information. to ....., from ..... to ....., from ..... to ....., from ..... to .....

11. Size of cuts 1/4-5/16 x 2-1/4 Number of cuts per foot 10 per 10-12 per 5", 8 per 4" and 12 per 5"

12. If screen was installed: Length ..... ft. Diam. ..... in. Type .....

13. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

14. Date started May 12, 1964 (Month Day Year)

15. Date completed November 29, 1964 (Month Day Year)

16. Depth of water 142 ft. (If flowing well, so state.)

17. Describe point from which depth measurements were made, and give sea-level elevation if available
Ground Surface.

18. If flowing well, state method of flow regulation .....

19. REMARKS: .....

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 3-10-65 by K
Filed 3-17-65 by K
File No. A(1-2)17 add

(Well Log to Appear on Reverse Side)

WD FORM G-301
REV. 4-27-53

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	2	Fill
2	15	Clay
15	204	Sand, gravel, some boulders
204	218	Sandy brown clay, some gravel streaks
218	229	Caliche
229	292	Sand, gravel, embedded in clay 4"
292	303	Sticky sandy grey clay
303	374	Streaks hard brown clay, and sticky grey clay
374	610	Stks sand, sticky grey and brown clay
610	865	Stks sticky and hard brown clay
865	1050	Hard brown clay
1050	1145	Hard brown clay, streaks sandstone
1145	1180	Sandy brown clay, stks sandstone
1180	1272	Streaks brown clay, siltstone, sandy brown clay
1272	1295	Sand and gravel to 3"
1295	1373	Sandy clay and gravel to 5"
1373	1395	Sand and gravel to 3"
1395	1440	Sandy clay and gravel to 1"
1440	1510	Cemented sand and gravel to 1"
1510	1637	Stks cemented sand and gravel, sandy clay and gravel 3"
1637	1710	Tight sand and gravel to 8"
1710	1800	Hard sandy brown clay and embedded gravel to 4"

PERFORATION DATA

Perf	ft. to	ft.	holes per	inches
1 round	230		10	10
1 round	260		10	10
285	390		12	5
390	820		6	10
835	900		5	10
900	1250		10	10
1250	1485		10	5
1500	1785		8	4
185	285		12	5
165	185		12	5

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

ROSCOE MOSS COMPANY

Driller ..... Name Secretary

4360 Worth Street, Los Angeles, Calif
Address

March 9, 1965

Date .....

STATE OF CALIF. DEPT. OF WATER RESOURCES
MAR 10 1965
RECEIVED

9631

WELL DATA

October 10, 1940

Drilled by Roscoe Moss Company, 4360 North Street, Los Angeles, Calif.

(RID# 89)

Report on Well - 8E - 4½ N - Located 4 miles ~~east~~ West, 3/4 mile south of Phoenix, Arizona

Started Work September 18, 1940
Completed Work October 7, 1940
Depth of Hole - 300 Ft.
Depth of Casing - 300 Ft.
24 Inch 8 Gauge casing used and left in well
Size of Shoe - 26½"

Log of Well

0'	-	8'	Soil
8	-	22	Coarse sand
22	-	38	Clay and caliche
38	-	165	Sand, gravel & boulders
165	-	170	Sand, gravel, boulders & clay
170	-	188	Sand, gravel & boulders
188	-	195	Clay and caliche
195	-	218	Muddy sand and gravel 6"
218	-	275	Sand and gravel 6" - streaks clay
275	-	300	Hard clay and gravel

Perforations

60 to 288 Ft. - 12 holes per 12 inches
Mills knife used
Perforations - 3/4" Diam. - 5" Length
Depth at which water was first found - 60 Ft.
Standing level before and after perforating - 60 Ft.

Well is straight, top to bottom

Remarks

Drilled by - Roscoe Moss Co.
Driller - K. Kirkland
Rig Used - No. 21
$5.35 for casing - $3.00 for drilling

Report on Well 8E-4¼N (#89)

Work started - October 19, 1964
Work completed - April 29, 1965
Total depth - 1800 feet

4539

Log of Well

0 - 10 ft. top soil
10 - 40 ft. sand and gravel
40 - 190 ft gravel and boulders
190 - 205 ft. sandy clay and gravel
205 - 275 ft. sand and gravel
275 - 305 ft. sand and gravel, little clay
305 - 335 ft. sandy clay, little gravel
335 - 370 ft. sand and gravel
370 - 410 ft. sand, little clay
410 - 855 ft. sticky clay, hard streaks
855 - 1200 ft. clay
1200- 1365 ft. sandy clay
1365- 1390 ft. sandy clay and gravel
1390- 1400 ft. tight sand, gravel, little clay
1400- 1480 ft. sand, gravel, little clay
1480- 1490 ft. cemented gravel streaks
1490- 1800 ft. sand, gravel, little clay

Perforations

Moss Hydraulic Perforator - ¼" x 2¼"
180 ft. to 805 ft. 10 holes per 5 inches
860 ft. to 1434 ft. 8 holes per 4 inches
1465 ft. to 1770 ft. 6 holes per 4 inches
Water level after perforation - 132 feet

652' of 16" casing installed with the top at 810' having a lap of 50' within the 20" casing. The 16" casing extends to 1462'. 345' of 12" casing installed with the top at 1440 feet having a lap of 22' within the 16" casing. The bottom of the 12" casing is at 1785 feet.

Remarks

Well drilled by Roscoe Moss Company
Driller - Hershel Holmes, Cable Tool #38

Cost - $6,400.19

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 79

Description of Sample 8 E-4 1/4 N (A-1-2) 9cbc RID #89

Date Sampled _____ Time _____ Temp _____ Discharge MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.62	19.50	93	20.04
Magnesium	Mg	2.94	12.42	34	12.16
Sodium	Na	15.90	67.19	364	23.00
Potassium	K	0.15	0.65	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.06	0.24	0.62	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		23.67		500.65	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	7.76	34.27	473	61.02
Chloride	Cl	10.89	48.09	384	35.46
Sulfate	SO_4	3.24	14.31	156	48.03
Nitrate	NO_3	0.68	3.00	42	62.01
Fluoride	F	0.07	0.33	1.40	19.00
Phosphate	PO_4	0.00	0.01	0.07	31.66
TOTAL ANIONS		22.63		817.73	

Conductivity 25° C K = 2280 x 10^{-6}

pH 7.7

Total Dissolved Solids mg per liter 1318

Total Hardness mg per liter 378

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 577

% Sodium 67.19

1986 RID #89

SAMPLE ID:	8E 4 1/4N	LAB NO:	457
	RV-ME	RV-%	MG/L
CALCIUM	3.44	17.32	69.00
MAGNESIUM	2.43	12.21	29.50
SODIUM	13.80	69.41	317.30
POTASSIUM	0.15	0.78	6.03
BORON	0.06	0.28	0.41
TOTAL	19.88	100.00	422.44
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.68	39.80	468.48
CHLORIDE	9.08	47.07	322.00
SULFATE	1.80	9.32	86.40
NITRATE	.66	3.44	41.14
FLUORIDE	0.07	0.37	1.35
PHOSPHATE	0.00	0.00	0.02
TOTAL	19.29	100.00	681.21

CONDUCTIVITY	1800.00
PH	7.50
TDS	1103.65
TH	293.72
NC HARDNESS	0.00
ALKALINITY	571.25
% SODIUM	69.41

1987 RID #89

SAMPLE ID: SE 4 1/4N LAB NO: 219

	RV-ME	RV-%	MG/L
CALCIUM	3.99	19.68	80.00
MAGNESIUM	2.69	13.26	32.70
SODIUM	13.38	65.96	307.70
POTASSIUM	0.16	0.79	6.25
BORON	0.06	0.31	0.68
TOTAL	20.28	100.00	427.33
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.52	36.55	458.72
CHLORIDE	9.93	48.26	352.00
SULFATE	2.37	11.51	113.68
NITRATE	.71	3.44	43.91
FLUORIDE	0.05	0.24	0.93
PHOSPHATE	0.00	0.01	0.03
TOTAL	20.57	100.00	736.08

CONDUTIVITY	1900.00
PH	7.30
TDS	1163.41
TH	334.35
NC HARDNESS	1001.03
ALKALINITY	559.35
% SODIUM	65.96

1988 RID# 89

SAMPLE ID: 8E-41/4N LAB. NO: 152

	RV-ME	RV-%	MG/L
CALCIUM	4.58	20.76	91.75
MAGNESIUM	3.04	13.80	37.00
SODIUM	14.21	64.46	326.90
POTASSIUM	0.15	0.70	6.02
BORON	0.06	0.28	0.67
TOTAL	22.05	100.00	462.34
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.32	33.83	446.52
CHLORIDE	10.60	49.02	376.00
SULFATE	2.94	13.57	141.00
NITRATE	0.73	3.37	45.19
FLUORIDE	0.05	0.21	0.88
PHOSPHATE	0.00	0.01	0.04
TOTAL	21.63	100.00	782.63
CONDUCTIVITY	2002.00		
PH	7.30		
TDS	1244.95		
TH	381.39		
NC HARDNESS	0.00		
ALKALINITY	544.47		
% SODIUM	64.46		

1989 RID# 89

SAMPLE ID: 8E-4 1/4N LAB. NO: 198

	RV-ME	RV-%	MG/L
CALCIUM	3.84	17.84	77.00
MAGNESIUM	5.59	25.96	68.00
SODIUM	11.87	55.10	273.00
POTASSIUM	0.18	0.84	7.10
BORON	0.06	0.26	0.61
TOTAL	21.54	100.00	425.71
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.24	35.40	502.64
CHLORIDE	11.17	48.00	396.00
SULFATE	3.69	15.84	177.00
NITRATE	0.14	0.59	8.53
FLUORIDE	0.04	0.16	0.72
PHOSPHATE	0.00	0.01	0.05
TOTAL	23.27	100.00	829.39
CONDUCTIVITY	2.00		
PH	7.30		
TDS	1255.11		
TH	472.16		
NC HARDNESS	0.00		
ALKALINITY	612.90		
% SODIUM	55.10		

RID#89

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller K. Kirkland (Name)
Roscoe Moss Co. (Address)

4. Location of well: Twp. 1N Rge. 2E Section 9 NW 1/4 SW 1/4 SW 1/4 (10-acre subdivision)
8E-4471

DESCRIPTION OF WELL

5. Total depth of hole 300 ft.

6. Type of casing 8ga.

7. Diameter and length of casing 24 in. from 0 to 300, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 60 to 288, from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 3/4" X 5" Number cuts per foot 12 per 12"

11. If screen was installed: Length ____ ft. Diam ____ in. Type ____

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed Oct. 7-1940 (Month Year) Deepened ____ (Month Year)

14. Depth to water when drilled 60 ft. (If flowing well, so state.)

15. Present depth to water 79.0 ft. Date of measurement 5-1-46 (If flowing well, so state.)

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 12.7 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____ (weir, orifice, current meter, etc.)

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: (See 24) Twp. ____ Rge. ____ Section ____ ____ Acres ____ (Legal subdivision)
Twp. ____ Rge. ____ Section ____ ____ Acres ____ (Legal subdivision)

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump ____ (turbine, centrifugal, etc.)

26. Kind of power Elec. (electric, natural gas, etc.)

27. Horsepower rating of motor 150

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-2-46 by lj
File No. (A-1-2)9 ccb
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	8	Soil
8	22	Coarse sand
22	38	Clay and caliche
38	165	Sand, gravel & boulders
165	170	Sand, gravel, boulders & clay
170	188	Sand, gravel & boulders
188	195	Clay and caliche
195	218	Muddy sand and gravel 6"
218	275	Sand and gravel 6" - streaks clay
275	300	Hard clay and gravel

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

4541

Report on Well 8½E-3½N (#90)

Work started - April 3rd, 1952
Work completed - May 13, 1952
Total Depth - 460'
Depth of Casing - 460' - 20"

Log of Well

0' - 30' Hard clay
30' - 90' Gravel and some clay
90' -190' Clean gravel to 5"
190' - 215' Clay
215' - 285' Gravel to 8"
285' - 315' Caliche clay
315' - 321' Caliche shell
321' - 322' Pea gravel
322' - 332' Soft clay
332' - 370' Sandy silt
370' - 460' Clay

Perforations

Perforated from 110' to 446'
Perforations 5/8" X 4" - 10 holes per 12"

Depth at which water was first found 92'
Standing level before perforating 77'
Standing level after perforating 67'

Remarks

Drilled by Roscoe Moss Company
Driller - J. N. Olson

Cost

Drilling and casing Well 460' - $9,164.40

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 78

Description of Sample 8 1/2 E-3 1/2 N (A-1-2) 16dbb RID#90

Date Sampled _____ Time _____ Temp _____ Discharge MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.15	21.25	83	20.04
Magnesium	Mg	2.57	13.15	31	12.16
Sodium	Na	12.60	64.45	290	23.00
Potassium	K	0.15	0.79	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.36	0.77	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		19.55		411.05	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	5.44	28.04	332	61.02
Chloride	Cl	9.98	51.47	354	35.46
Sulfate	SO_4	3.36	17.31	161	48.03
Nitrate	NO_3	0.56	2.90	35	62.01
Fluoride	F	0.05	0.27	1.00	19.00
Phosphate	PO_4	0.00	0.01	0.06	31.66
TOTAL ANIONS		19.40		714.33	

Conductivity	25° C	K = 1940	x 10^{-6}
pH		7.8	
Total Dissolved Solids		mg per liter	1125
Total Hardness		mg per liter	337
Non Carbonate Hardness		mg per liter	0
Alkalinity as $CaCO_3$		mg per liter	405
% Sodium			64.45

1986 RID# 90

SAMPLE ID:	8 1/2E 3 1/2N	LAB NO:	459
	RV-ME	RV-%	MG/L
CALCIUM	3.66	22.08	73.25
MAGNESIUM	2.34	14.16	28.50
SODIUM	10.34	62.45	237.80
POTASSIUM	0.15	0.93	6.03
BORON	0.06	0.38	0.68
TOTAL	16.56	100.00	346.26
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.20	31.93	317.20
CHLORIDE	8.18	50.24	290.00
SULFATE	2.22	13.63	106.56
NITRATE	.64	3.90	39.38
FLUORIDE	0.05	0.29	0.91
PHOSPHATE	0.00	0.01	0.03
TOTAL	16.28	100.00	592.82

CONDUCTIVITY	1260.00
PH	7.40
TDS	939.08
TH	300.21
NC HARDNESS	0.00
ALKALINITY	386.78
% SODIUM	62.45

1988
RID #90

SAMPLE ID: 81/2E-31/2N LAB. NO: 154

	RV-ME	RV-%	MG/L
CALCIUM	4.15	24.29	83.25
MAGNESIUM	2.36	13.82	28.75
SODIUM	10.35	60.53	238.10
POTASSIUM	0.17	0.97	6.50
BORON	0.07	0.39	0.72
TOTAL	17.10	100.00	357.32
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.36	31.77	326.96
CHLORIDE	8.35	49.49	296.00
SULFATE	2.44	14.44	117.00
NITRATE	0.68	4.06	42.42
FLUORIDE	0.04	0.23	0.75
PHOSPHATE	0.00	0.01	0.05
TOTAL	16.87	100.00	816.93

CONDUCTIVITY	1600.00
PH	7.30
TDS	974.27
TH	326.21
NC HARDNESS	0.00
ALKALINITY	398.68
% SODIUM	60.53

1989 RID#90

SAMPLE ID: 8 1/2E-3 1/2N LAB. NO: 200

	RV-ME	RV-%	MG/L
CALCIUM	3.32	21.85	66.60
MAGNESIUM	2.06	13.52	25.00
SODIUM	9.60	63.15	220.90
POTASSIUM	0.17	1.09	6.50
BORON	0.06	0.39	0.64
TOTAL	15.21	100.00	319.64
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.76	34.40	351.36
CHLORIDE	8.07	48.19	286.00
SULFATE	2.75	16.42	132.00
NITRATE	0.13	0.75	7.75
FLUORIDE	0.04	0.23	0.73
PHOSPHATE	0.00	0.01	0.05
TOTAL	16.74	100.00	599.26
CONDUCTIVITY	1.54		
PH	7.30		
TDS	918.90		
TH	269.20		
NC HARDNESS	0.00		
ALKALINITY	428.44		
% SODIUM	63.15		

FORM W-6 1M-3-49 JAHN-TYLER (A-1-2)16 bdd Appl. No. S-38 Permit No. S-36

RID#90?

Land Department
Ground Water Division
State of Arizona

8½ E - 3½ N

REPORT OF WELL DRILLED IN CRITICAL AREA

Report of Well Drilled in Critical Area is required to be made and filed with the State Land Commissioner upon completion of the construction of such well, pursuant to Section 10, Chapter 5, House Bill No. 2, Eighteenth Legislature, Sixth Special Session, 1948.

1. Owner Roosevelt Irrigation District (Name) Buckeye, Arizona (Address)
2. Lessee or Operator _____ (Name) _____ (Address)
3. Driller Roscoe Loss Company (Name) Los Angeles, Calif. (Address)
4. Location of Well: Twp. 1 N. Rge. 2 E. Sec. 16 Legal Subdivision SE ¼ SE ¼ NW ¼ (10 acre subdivision)

   It is _____ yards _____ from the nearest irrigation well. 8½E-3½N
   (If less than ¼ mile) (direction)
5. Purpose of use Irrigation
6. Place of use: Twp. _____ Rge. _____ Section(s) _____, _____ (Legal Subdivision) Acres _____
7. If well is part of Irrigation District, Association, or Company, omit 6 and give name of project: _____

   District lands

DESCRIPTION OF WELL

8. Total depth of hole 460 ft. 9. Type of Casing Hard red steel
10. Diameter and length of casing: 20 in. from 0 ft. to 460 ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft.
11. Method of sealing at reduction points _____
12. Perforated from 110 ft. to 446 ft; from _____ ft. to _____ ft; from _____ ft. to _____ ft.
13. Size of cuts 5/8 x 4 Number of cuts per foot 10 per 12 inches
14. If screen was installed: Length _____ ft. Diameter _____ in. Type _____
15. Method of drilling Calif Type Cable Tool (drilled, dug, driven, bored, etc.)
16. Date completed May 13, 1952 (Month, Year) 17. Depth to water 92 ft. (if flowing well, so state)
18. Describe points from which depth measurements were made Ground Surface

    _____ Sea-level elevation _____ (if available)
19. Method of flow regulation if flowing well _____

REPORT OF PUMP INSTALLATION AND TEST

20. Tested well capacity _____ (gallons per minute) Method of measurement _____ (weir, orifice, meter, etc.)
21. Depth immediately prior to capacity test, from land surface to static water level _____ ft.
22. Non-flowing well: Drawdown _____ ft. measured after _____ (at least 4) hours of continuous operation, and while pump is still operating.
23. Flowing well: Shut-in pressure _____ ft. above the land surface, or _____ pounds per square inch at the land surface.
24. Kind of Pump _____ (turbine, centrifugal, etc.)
25. Kind of Power _____ (electric, natural gas, etc.)
26. Horsepower Rating of Motor _____
27. Permittee _____ (Signature)

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 6-3-52 by lec
Filed 6-19-52 by lec
File No. (A-1-2)16 bdd
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water-bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (feet)	TO (feet)	DESCRIPTION OF FORMATION MATERIAL
0	30	Hard clay
30	90	Gravel and some clay
90	190	Clean gravel to 5"
190	215	Clay
215	285	Gravel to 8"
285	315	Caliche clay
315	321	Caliche shell,,
321	322	Pea gravel
322	332	Soft clay
332	370	Sandy silt
370	460	Clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, Calif
Address

Date May 26, 1952

NOTE: Report and Log are to be completed by the permittee and driller, and mailed by the permittee to the Ground Water Division of the State Land Department immediately upon completion of the well and pumping test.

RID#90

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District - (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller J. B. Junkins - Martin & Salazar (Name)
(Address)

4. Location of well: Twp. 1N Rge. 2E Section 16 NW 1/4 NW 1/4 SE 1/4 (10-acre subdivision)
8½ E - 3½ N

DESCRIPTION OF WELL

5. Total depth of hole 176 ft.

6. Type of casing 10 ga. N.C.

7. Diameter and length of casing 20 in. from 0 to 176 in. from ___ to ___, ___ in. from ___ to ___

8. Method of sealing at reduction points ___

9. Perforated from 55 to 165, from ___ to ___, from ___ to ___, from ___ to ___

10. Size of cuts 3/4" x 4" Number cuts per foot 12

11. If screen was installed: Length ___ ft. Diam ___ in. Type ___

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed 4-28- (Month Year) Deepened ___ (Month Year)

14. Depth to water when drilled ___ ft. (If flowing well, so state.)

15. Present depth to water 69.0 ft. Date of measurement 5-1-46 (If flowing well, so state.)

16. Describe point from which depth measurements were made, and give sea-level elevation if available ___

17. If flowing well, state method of flow regulation ___

DISCHARGE DATA

18. Well discharge 9.25 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ___ (weir, orifice, current meter, etc.)

20. Drawdown ✓ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ___ a.f. or ___ hrs. 1945 ___ a.f. or ___ hrs.

22. Purpose of use ___

23. Place of use: (See 24) Twp. ___ Rge. ___ Section ___ ___ (Legal subdivision) Acres ___
Twp. ___ Rge. ___ Section ___ ___ (Legal subdivision) Acres ___

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump turbine, centrifugal, etc.

26. Kind of power Elec (electric, natural gas, etc.)

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-13-46 by lj
File No. (A-1-2)16 dbb
Cross-referenced (Name) ___ by ___
Cross-referenced (Basin) ___ by ___
Cross-referenced ___ by ___

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	19	Clay and caliche
19	29	Gravel and sand
29	41	Sand and gravel
41	47	Gravel and sand
47	65	Coarse gravel
65	105½	Gravel, Sand and boulders
105½	119	Clay and Caliche
119	126	Sand, gravel and clay
126	128	Clay and caliche
128	131	Gravel
131	137	Sand and fine gravel
137	156½	Gravel and sand
156½	164½	Sand and fine gravel
164½	173	Gravel and sand
173	176	Coarse gravel and clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

4542

REPORT ON WELL 9E-3~~4~~N (#91)

Work started - April 7th, 1952
Work Completed May 26th, 1952
Depth of Well 450'
Depth of Casing 450' - 24"

LOG OF WELL

0' - 12'	Soil
12' - 280'	Gravel
280' - 300'	Tight Gravel
300' - 404'	Sand and Clay
404' - 450'	Clay

PERFORATIONS

80' to 448'
12 Holes per 12" - 3/4" X 4½"

Depth at which water was first found 72'
Standing level before and after perforating 72'

REMARKS

Drilled by Roscoe Moss Company
Driller - J. N. Lard

COST

Drilling and Casing Well 450' - $10,522.00

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 80

Description of Sample 9 E-3 1/2 N (A-1-2) 15 bcc RID #91

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

MAR 01 1989

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.47	19.60	70	20.04
Magnesium	Mg	2.06	11.62	25	12.16
Sodium	Na	11.93	67.45	275	23.00
Potassium	K	0.15	0.87	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.08	0.46	0.88	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		17.69		375.91	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	5.44	31.54	332	61.02
Chloride	Cl	8.46	49.07	300	35.46
Sulfate	SO_4	2.76	16.00	132	48.03
Nitrate	NO_3	0.53	3.08	33	62.01
Fluoride	F	0.05	0.31	1.00	19.00
Phosphate	PO_4	0.00	0.01	0.05	31.66
TOTAL ANIONS		17.24		629.60	

Conductivity 25° C K = 1820 x 10^{-6}

pH 7.6

Total Dissolved Solids mg per liter 1006

Total Hardness mg per liter 276

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 405

% Sodium 67.45

1986 RID#91

SAMPLE ID:	9E 3 1/2N	LAB NO:	460
	RV-ME	RV-%	MG/L
CALCIUM	3.01	20.03	60.25
MAGNESIUM	1.95	13.01	23.75
SODIUM	9.81	65.34	225.60
POTASSIUM	0.18	1.18	6.90
BORON	0.07	0.44	0.71
TOTAL	15.01	100.00	317.21
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.28	34.53	322.08
CHLORIDE	7.61	49.81	270.00
SULFATE	1.80	11.77	86.40
NITRATE	.55	3.59	34.07
FLUORIDE	0.05	0.30	0.86
PHOSPHATE	0.00	0.00	0.01
TOTAL	15.29	100.00	549.68

CONDUCTIVITY	1440.00
PH	7.40
TDS	866.89
TH	248.20
NC HARDNESS	0.00
ALKALINITY	392.73
% SODIUM	65.34

1987 RID#91

SAMPLE ID: 9E 3 1/2N LAB NO: 226

	RV-ME	RV-%	MG/L
CALCIUM	2.79	19.87	56.00
MAGNESIUM	1.79	12.75	21.80
SODIUM	9.32	66.24	214.30
POTASSIUM	0.09	0.67	3.68
BORON	0.07	0.48	0.72
TOTAL	14.07	100.00	296.50
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.20	36.38	317.20
CHLORIDE	7.39	51.70	262.00
SULFATE	1.17	8.18	56.14
NITRATE	.50	3.51	31.12
FLUORIDE	0.03	0.22	0.61
PHOSPHATE	0.00	0.00	0.02
TOTAL	14.29	100.00	505.83

CONDUTIVITY	1400.00
PH	7.30
TDS	802.33
TH	229.56
NC HARDNESS	1001.03
ALKALINITY	386.78
% SODIUM	66.24

1988 RID # 91

SAMPLE ID: 9E-31/2N LAB. NO: 155

	RV-ME	RV-%	ME/L
CALCIUM	3.53	22.91	70.75
MAGNESIUM	1.85	12.00	22.50
SODIUM	9.83	63.81	226.20
POTASSIUM	0.13	0.86	5.16
BORON	0.07	0.43	0.71
TOTAL	15.41	100.00	325.32
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.08	32.08	309.88
CHLORIDE	8.01	50.59	284.00
SULFATE	2.19	13.81	105.00
NITRATE	0.53	3.37	33.11
FLUORIDE	0.02	0.15	0.44
PHOSPHATE	0.00	0.21	0.06
TOTAL	15.83	100.00	574.95
CONDUCTIVITY	1500.00		
PH	7.30		
TDS	900.27		
TH	269.27		
NC HARDNESS	0.00		
ALKALINITY	377.96		
% SODIUM	53.81		

1989 RID #91

SAMPLE ID: 9E-3 1/2N LAB. NO: 204

	RV-ME	RV-%	MG/L
CALCIUM	3.16	20.97	63.40
MAGNESIUM	1.81	11.99	22.00
SODIUM	9.90	65.61	227.60
POTASSIUM	0.15	1.02	6.00
BORON	0.06	0.41	0.66
TOTAL	15.08	100.00	319.66
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.36	33.53	326.96
CHLORIDE	7.95	49.76	282.00
SULFATE	2.56	16.02	123.00
NITRATE	0.09	0.58	5.76
FLUORIDE	0.02	0.11	0.32
PHOSPHATE	0.00	0.01	0.04
TOTAL	15.98	100.00	571.85
CONDUCTIVITY	1.54		
PH	7.50		
TDS	891.51		
TH	248.86		
NC HARDNESS	0.00		
ALKALINITY	398.68		
% SODIUM	65.61		

RID#91

FORM W-6 1M 2-49 JAHN-TYLER (A-1-2)15 bcc Appl. No. S-37 Permit No. S-35

9E - 3½ N

Land Department
Ground Water Division
State of Arizona

REPORT OF WELL DRILLED IN CRITICAL AREA

Report of Well Drilled in Critical Area is required to be made and filed with the State Land Commissioner upon completion of the construction of such well, pursuant to Section 10, Chapter 5, House Bill No. 2, Eighteenth Legislature, Sixth Special Session, 1948.

1. Owner Roosevelt Irrigation District (Name) Buckeye, Arizona (Address)
2. Lessee or Operator _____ (Name) _____ (Address)
3. Driller Roscoe Moss Company (Name) Los Angeles, Calif. (Address)
4. Location of Well: Twp. 1 N. Rge. 2 E. Sec. 15 Legal Subdivision SW ¼ SW ¼ NW ¼ (10 acre subdivision)

   It is _____ (if less than ¼ mile) yards _____ (direction) from the nearest irrigation well. 9E-3½N
5. Purpose of use Irrigation
6. Place of use: Twp. _____ Rge. _____ Section(s) _____, _____ (Legal Subdivision) Acres _____
7. If well is part of Irrigation District, Association, or Company, omit 6 and give name of project: District lands

DESCRIPTION OF WELL

8. Total depth of hole 450 ft. 9. Type of Casing Hard red steel
10. Diameter and length of casing: 24 in. from 0 ft. to 450 ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft.
11. Method of sealing at reduction points _____
12. Perforated from 80 ft. to 448 ft; from _____ ft. to _____ ft; from _____ ft. to _____ ft.
13. Size of cuts 3/4 x 4-1/2 Number of cuts per foot 12 per 12inches
14. If screen was installed: Length _____ ft. Diameter _____ in. Type _____
15. Method of drilling Calif Type Cable Tool (drilled, dug, driven, bored, etc.)
16. Date completed May 26, 1952 (Month, Year) 17. Depth to water 72 ft. (If flowing well, so state)
18. Describe points from which depth measurements were made Ground Surface, _____ Sea-level elevation _____ (if available)
19. Method of flow regulation if flowing well _____

REPORT OF PUMP INSTALLATION AND TEST

20. Tested well capacity _____ (gallons per minute) Method of measurement _____ (weir, orifice, meter, etc.)
21. Depth immediately prior to capacity test, from land surface to static water level _____ ft.
22. Non-flowing well: Drawdown _____ ft. measured after _____ (at least 4) hours of continuous operation, and while pump is still operating.
23. Flowing well: Shut-in pressure _____ ft. above the land surface, or _____ pounds per square inch at the land surface.
24. Kind of Pump _____ (turbine, centrifugal, etc.)
25. Kind of Power _____ (electric, natural gas, etc.)
26. Horsepower Rating of Motor _____
27. Permittee _____ Superintendent (Signature)

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 6-26-52 by lec
Filed 6-26-52 by lec
File No. (A-1-2)15 bcc
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water-bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (feet)	TO (feet)	DESCRIPTION OF FORMATION MATERIAL
0	12	Soil
12	280	Gravel
280	300	Tight gravel
300	404	Sand and clay
404	450	Clay

RECEIVED JUN 25 1952 STATE LAND DEPT.

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, Calif
Address

Date June 23, 1952.

NOTE: Report and Log are to be completed by the permittee and driller, and mailed by the permittee to the Ground Water Division of the State Land Department immediately upon completion of the well and pumping test.

PRE-SAMPLING WELL INSPECTION FORM

KLEINFELDER, INC

Legal well designation: (A-1-2) 10cbc Other designation: RID #92

Date 8/1/90 Time: 4:00pm Inspector:

Well location address (give cross-streets): Along 43rd Ave between Buckeye + Van Buren

Contact name: Contact phone number:

Owner's name RID

Owner's address:

Owner's telephone number:

Was the owner contacted during this well inspection:

Depth to water from reference point (RP): PWL ~180' Distance from R.P. to Ground Surface: 0

Depth to bottom of well from RP: R.P. identifiication Edge of pump base

Depth to pump:

Location of access port for measuring water level: slot in concrete

Casing Diameter (inside): 12"

Type of well casing: (Steel) Stainless steel PVC Other:

Apparent well status: (Active) Inactive

Apparent well use:

Type of pumping equipment installed: submersible (line-shaft turbine) none unknown

Is the well accessible for sampling: yes

Location and type of sampling port (i.e., hose bib, 3"gate valve, etc.)

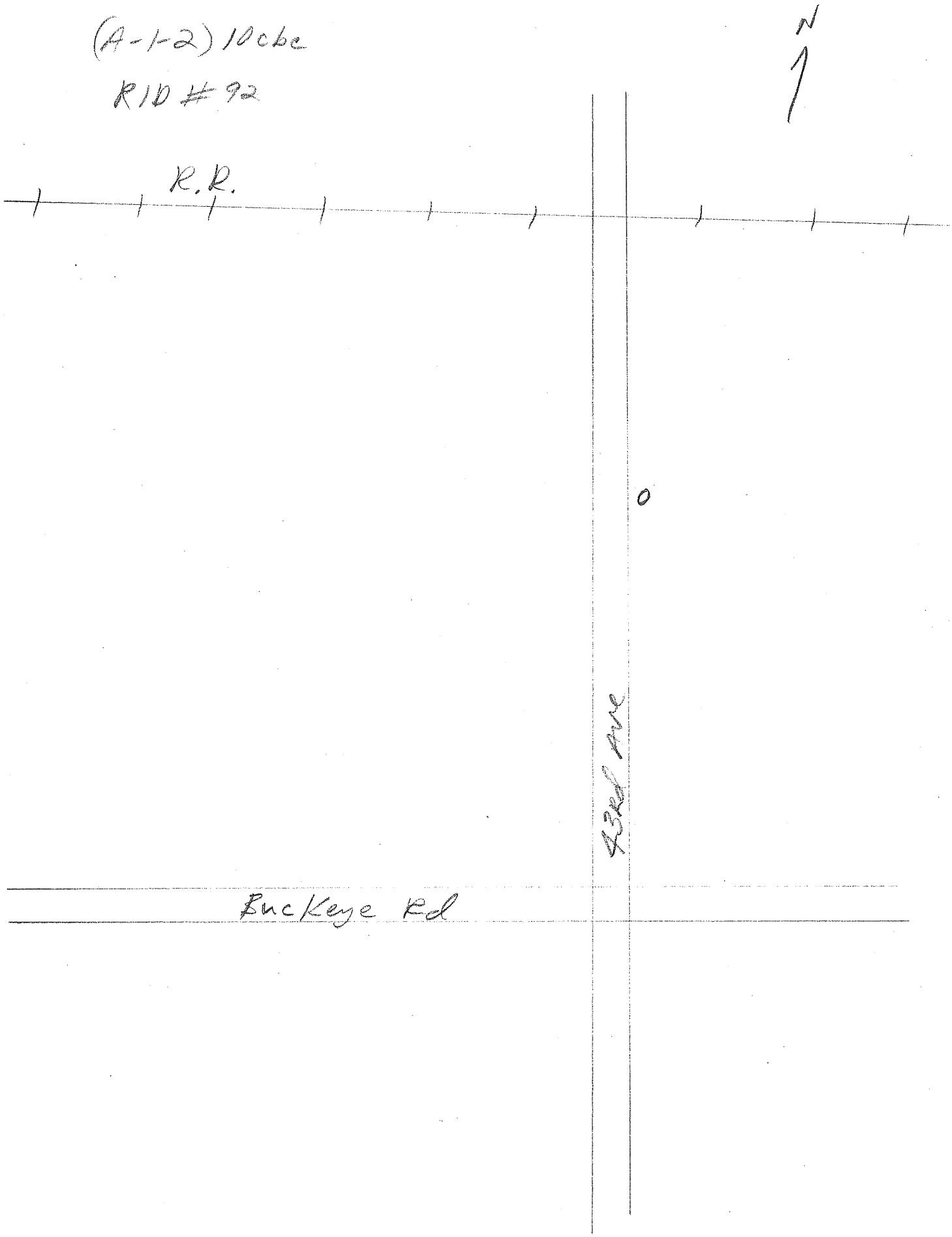
Describe special sampling equipment requirements:

Other information:

ATTACH LOCATION MAP!!!!!!!!!!!!!!!!!!

(A-1-2) 10cbc

RID # 92



YE-774 IV

DEPARTMENT OF WATER RESOURCES
99 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004

REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE — FILE IN DUPLICATE

07

FOR OFFICE USE ONLY
REGISTRATION NO. 55- 607218
FILE NO. A(1-2)10ccb
FILED 5/6/82 (DATE) AT 1:19 (TIME)
INA —
PHOENIX

ARIZONA DEPARTMENT OF WATER RESOURCES
'82 MAY -6 A1:19

REGISTRATION FEE (CHECK ONE)	
EXEMPT WELL (NO CHARGE)	☐
NON-EXEMPT WELL – $10.00	☒

1. Name of Registrant:
Roosevelt Irrigation District
P.O. Box 95 (Address) Buckeye (City) AZ (State) 85326 (Zip)

2. File and/or Control Number under previous groundwater law:
A0100 2010 CCBG S1 (File Number) 35- (Control Number)

3. a. The well is located within the NW ¼ SW ¼ SW ¼, Section 10, of Township 1N N/S, Range 2E E/W, G & SRB & M, in the County of Maricopa.
b. If in a subdivision: Name of subdivision _____, Lot No. _____, Address _____.

4. The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
Irrigation.

5. If for irrigation use, number of acres irrigated from well _____.

6. Owner of land on which well is located. If same as Item 1, check this box ☒
(Address) (City) (State) (Zip)

7. Well data (If data not available, write N/A)
a. Depth of Well 500 feet
b. Diameter of casing 20 inches
c. Depth of casing 500 feet
d. Type of casing 8 ga steel.
e. Maximum pump capacity 1971 gallons per minute.
f. Depth to water 82 feet below land surface.
g. Date well completed February (Month) 9 (Day) 1959 (Year).

8. The place(s) of use of water. If same as Item 3, check this box ☐.
____ ¼ ____ ¼ ____ ¼, Section ____ Township ____ Range ____
____ ¼ ____ ¼ ____ ¼, Section ____ Township ____ Range ____
Roosevelt Irrigation District
Attach additional sheet if necessary.

9. DATE 4/1/82 SIGNATURE OF REGISTRANT George McLaughlin

ROOSEVELT IRRIGATION DISTRICT (Redrill)

REPORT ON WELL 9E-4¼N (#92)

Work started--------December 19, 1958
Work completed------February 9, 1959
Total depth---------500'
500' of 20" - 8 Ga. casing used
and left in the well.

LOG OF WELL

0' - 4'---------Brown Clay
4' - 9'---------Brown Clay and gravel
9' - 29'--------Sandy Clay
29' - 107'-------Gravel and boulders
107' - 218'-------Sand, Gravel and boulders
218' - 222'-------Caliche
222' - 238'-------Sandy clay, gravel and boulders
238' - 253'-------Soft brown clay
253' - 293'-------Sand and gravel ½"
293' - 319'-------Soft brown clay
319' - 343'-------Sandy clay and gravel
343' - 346'-------Coarse sand
346' - 500'-------Sandy clay and gravel

PERFORATIONS

Moss Hydraulic perforator used
180' to 488' - 16 holes per 10 inches
Diameter - 3/16" - Length - 2½"
Depth at which water was first found - 113'
Standing level before perforating - 175'
Standing level after perforating - 112'

Well is straight from top to bottom

REMARKS

Drilled by Roscoe Moss Company-Cable Tool #39
Bill Hulsey, Driller

COST

For Drilling - Casing - Perforation
to a depth of 500'----------$ 12,765.00

Cost per foot----------$ 25.53

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 82

Description of Sample 9 E-4 1/4 N (A-1-2) 10cbc RID #92

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

MAR 01 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	5.78	24.83	116	20.04
Magnesium	Mg	3.37	14.50	41	12.16
Sodium	Na	13.91	59.81	320	23.00
Potassium	K	0.15	0.66	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.05	0.20	0.50	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		23.26		483.28	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	5.92	26.92	361	61.02
Chloride	Cl	11.79	53.62	418	35.46
Sulfate	SO_4	3.72	16.91	179	48.03
Nitrate	NO_3	0.52	2.36	32	62.01
Fluoride	F	0.04	0.19	0.80	19.00
Phosphate	PO_4	0.00	0.01	0.04	31.66
TOTAL ANIONS		21.99		807.08	

Conductivity 25° C	K = 2300	x 10^{-6}	
pH	7.6		
Total Dissolved Solids	mg per liter	1290	
Total Hardness	mg per liter	458	
Non Carbonate Hardness	mg per liter	17	
Alkalinity as $CaCO_3$	mg per liter	440	
% Sodium		59.81	

1986 RID#92

SAMPLE ID:	9E 4 1/4N	LAB NO:	461
	RV-ME	RV-%	MG/L
CALCIUM	4.52	23.31	90.50
MAGNESIUM	3.37	17.41	41.00
SODIUM	11.29	58.27	259.60
POTASSIUM	0.15	0.80	6.03
BORON	0.04	0.21	0.45
TOTAL	19.37	100.00	397.58
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.24	31.18	380.64
CHLORIDE	10.77	53.84	382.00
SULFATE	2.40	11.99	115.20
NITRATE	.56	2.80	34.75
FLUORIDE	0.04	0.19	0.73
PHOSPHATE	0.00	0.00	0.01
TOTAL	20.01	100.00	719.82

CONDUCTIVITY	1800.00
PH	7.40
TDS	1117.39
TH	394.73
NC HARDNESS	0.00
ALKALINITY	464.14
% SODIUM	58.27

1987 RID#92

SAMPLE ID: 9E 4 1/4N LAB NO: 238

	RV-ME	RV-%	MG/L
CALCIUM	4.49	23.65	90.00
MAGNESIUM	3.07	16.15	37.30
SODIUM	11.29	59.43	259.60
POTASSIUM	0.11	0.59	4.41
BORON	0.03	0.18	0.37
TOTAL	18.99	100.00	391.68
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.08	31.65	370.88
CHLORIDE	10.55	54.93	374.00
SULFATE	1.98	10.31	95.12
NITRATE	.56	2.93	34.89
FLUORIDE	0.03	0.18	0.64
PHOSPHATE	0.00	0.00	0.02
TOTAL	19.20	100.00	686.99

CONDUTIVITY	1900.00
PH	7.30
TDS	1078.66
TH	378.26
NC HARDNESS	1001.03
ALKALINITY	452.24
% SODIUM	59.43

1988 RID# 92

SAMPLE ID: 9E-41/4N LAB. NO: 156

	RV-ME	RV-%	MG/L
CALCIUM	4.99	24.38	100.00
MAGNESIUM	3.58	17.48	43.50
SODIUM	11.70	57.18	269.20
POTASSIUM	0.15	0.75	6.02
BORON	0.04	0.21	0.46
TOTAL	20.47	100.00	419.18
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.20	29.52	378.20
CHLORIDE	11.28	53.73	400.00
SULFATE	2.87	13.68	138.00
NITRATE	0.62	2.95	38.37
FLUORIDE	0.02	0.12	0.46
PHOSPHATE	0.00	0.01	0.04
TOTAL	21.00	100.00	761.50
CONDUCTIVITY	1900.00		
PH	7.20		
TDS	1181.98		
TH	428.75		
NC HARDNESS	0.00		
ALKALINITY	461.16		
% SODIUM	57.18		

1989 RID# 92

SAMPLE ID: 9E-4 1/4N LAB. NO: 205

	RV-ME	RV-%	MG/L
CALCIUM	4.34	25.31	86.90
MAGNESIUM	3.13	18.24	38.00
SODIUM	9.44	55.13	217.20
POTASSIUM	0.18	1.05	7.00
BORON	0.05	0.27	0.50
TOTAL	17.13	100.00	349.60
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.56	36.20	400.16
CHLORIDE	8.35	46.07	296.00
SULFATE	3.06	16.89	147.00
NITRATE	0.11	0.61	6.87
FLUORIDE	0.04	0.23	0.78
PHOSPHATE	0.00	0.00	0.01
TOTAL	18.12	100.00	647.38
CONDUCTIVITY	1.85		
PH	7.30		
TDS	996.98		
TH	373.40		
NC HARDNESS	0.00		
ALKALINITY	487.94		
% SODIUM	55.13		

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

(#93) 15acc

Report on Well 9½E - 3½N - Located SW-¼, SW-¼, NE-¼ Sec 15, Twp 1-N, R-2-E - Maricopa County

4546

Started Work - January 16, 1957
Completed Work - March 9, 1957
Depth of Hole - 540 feet
445 Ft. - 24" - 8-gauge casing used and left in well
Size of shoe - 24 x 16 x 1-¼

Log of Well

0' - 4'	-	Top soil
4' - 12'	-	Clay and caliche
12' - 20'	-	Boulders
20' - 115'	-	Clay and boulders
115' - 214'	-	Boulders
214' - 257'	-	Clay and boulders
257' - 335'	-	Sticky clay
335' - 371'	-	Sticky clay-streaks of sand
371' - -430'	-	Sticky clay, streaks of silt
430' - 540'	-	Sticky clay

Perforations

Perforated 110' to 431' - 10 Holes per 5 inches
Moss Hydraulic used
Perforations - ¼" Diam. - 2" length
Depth at which water was first found - 85'
Standing level before perforating 85'
Standing level after perforating 91'

Well is straight - top to bottom

Remarks

18" open hole from 445 to 540 feet. We did not cased 18" test hole. Left for future deepening job as requested by Roosevelt Irrigation District
Drilled by - Roscoe Moss Co.
Driller - J. O. Evans
Rig used - Cable Tool #46

COST

Drilling and Casing $13,523.00

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 81

Description of Sample 9 1/2 E - 3 1/2 N (A-1-2) 15acc RID# 93

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

MAR 01 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.93	20.76	79	20.04
Magnesium	Mg	2.20	11.62	27	12.16
Sodium	Na	12.59	66.50	290	23.00
Potassium	K	0.13	0.70	5.17	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.08	0.41	0.85	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		18.93		401.02	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	5.60	31.35	342	61.02
Chloride	Cl	8.80	49.27	312	35.46
Sulfate	SO_4	2.88	16.12	138	48.03
Nitrate	NO_3	0.54	3.02	33	62.01
Fluoride	F	0.04	0.24	0.80	19.00
Phosphate	PO_4	0.00	0.01	0.04	31.66
TOTAL ANIONS		17.86		652.42	

Conductivity 25° C K = 1880 x 10^{-6}

pH 7.5

Total Dissolved Solids mg per liter 1053

Total Hardness mg per liter 307

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 417

% Sodium 66.50

1986 RID#93

SAMPLE ID:	9 1/2E 3 1/2N	LAB NO:	463
	RV-ME	RV-%	MG/L
CALCIUM	3.01	19.40	60.25
MAGNESIUM	1.95	12.60	23.75
SODIUM	10.34	66.72	237.80
POTASSIUM	0.13	0.85	5.17
BORON	0.07	0.43	0.71
TOTAL	15.50	100.00	327.68
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.84	37.24	356.24
CHLORIDE	7.95	50.73	282.00
SULFATE	1.38	8.80	66.24
NITRATE	.46	2.93	28.48
FLUORIDE	0.05	0.29	0.86
PHOSPHATE	0.00	0.01	0.04
TOTAL	15.68	100.00	552.74

CONDUCTIVITY	1510.00
PH	7.50
TDS	880.43
TH	248.20
NC HARDNESS	0.00
ALKALINITY	434.39
% SODIUM	66.72

1987 RID #93

SAMPLE ID: 9 1/2E 3 1/2N LAB NO: 248

	RV-ME	RV-%	MG/L
CALCIUM	2.99	20.35	60.00
MAGNESIUM	1.74	11.85	21.20
SODIUM	11.29	59.43	226.20
POTASSIUM	0.08	0.51	2.94
BORON	0.06	0.43	0.68
TOTAL	14.71	100.00	311.02
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.68	37.54	346.48
CHLORIDE	7.45	49.22	264.00
SULFATE	1.54	10.16	73.78
NITRATE	.45	2.96	27.80
FLUORIDE	0.02	0.11	0.31
PHOSPHATE	0.00	0.01	0.04
TOTAL	15.13	100.00	536.26

CONDUTIVITY	1500.00
PH	7.40
TDS	847.28
TH	237.08
NC HARDNESS	1001.03
ALKALINITY	422.49
% SODIUM	66.86

1988 RID #93

SAMPLE ID: 91/2E-31/2N LAB. NO: 158

	RV-ME	RV-%	MG/L
CALCIUM	3.74	22.96	75.00
MAGNESIUM	2.01	12.36	24.50
SODIUM	10.35	63.51	238.10
POTASSIUM	0.13	0.81	5.16
BORON	0.06	0.36	0.63
TOTAL	16.30	100.00	343.39
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.56	34.47	339.16
CHLORIDE	7.90	48.96	280.00
SULFATE	2.12	13.17	102.00
NITRATE	0.52	3.20	32.01
FLUORIDE	0.03	0.19	0.58
PHOSPHATE	0.00	0.01	0.05
TOTAL	16.13	100.00	581.37
CONDUCTIVITY	1500.00		
PH	7.32		
TDS	924.76		
TH	288.12		
NC HARDNESS	0.02		
ALKALINITY	413.56		
% SODIUM	63.51		

1989 RID# 93

SAMPLE ID: 9 1/2E-3 1/2N LAB. NO: 203

	RV-ME	RV-%	MG/L
CALCIUM	2.90	19.39	58.10
MAGNESIUM	1.89	12.65	23.00
SODIUM	9.94	66.50	228.70
POTASSIUM	0.16	1.06	6.20
BORON	0.06	0.40	0.65
TOTAL	14.95	100.00	316.65
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.28	32.78	322.08
CHLORIDE	8.29	51.49	294.00
SULFATE	2.44	15.13	117.00
NITRATE	0.06	0.35	3.54
FLUORIDE	0.04	0.23	0.70
PHOSPHATE	0.00	0.01	0.05
TOTAL	16.10	100.00	573.62
CONDUCTIVITY	1.67		
PH	7.40		
TDS	890.27		
TH	239.74		
NC HARDNESS	0.00		
ALKALINITY	392.73		
% SODIUM	66.50		

RID #93 ?

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Eukeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller Geo. C. Gerde (Name)
California (Address)

4. Location of well: Twp. 1N Rge. 2E Section 15 Center of Sec 15 (10-acre subdivision)
1½ E – 2½ N

DESCRIPTION OF WELL NE¼ NE¼ SW¼

5. Total depth of hole ~~246~~ 540 ft.

6. Type of casing

7. Diameter and length of casing 24 in. from 0 to 244 in. from to , in. from to

8. Method of sealing at reduction points

9. Perforated from 60' to 236', from to , from to , from to

10. Size of cuts 5/8 Number cuts per foot 14

11. If screen was installed: Length ft. Diam in. Type

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed April (Month) 1937 (Year) Deepened (Month) (Year)

14. Depth to water when drilled ft.
If flowing well, so state.

15. Present depth to water 70.0 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available

17. If flowing well, state method of flow regulation

DISCHARGE DATA

18. Well discharge 14.25 (gal. per min. or cu. ft. per sec. or miner's inches.)

19. Method of discharge measurement (weir, orifice, current meter, etc.)

20. Drawdown ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 a.f. or hrs. 1945 a.f. or hrs.

22. Purpose of use

23. Place of use: (See 24) Twp. Rge. Section Legal subdivision Acres
Twp. Rge. Section Legal subdivision Acres

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump (turbine, centrifugal, etc.)

26. Kind of power Elec (electric, natural gas, etc.)

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-2-46 by lj
File No. (A-1-2)15 caa
Cross-referenced (Name) by
Cross-referenced (Basin) by
Cross-referenced by

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
Surface	17	Soil
17	228	Coarse sand and gravel
228	244	Fine sand and gravel
244	246	Brown clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

Report on WELL 10E - 3 3/4N (#94) 4547

Work started - June 2, 1952
Work Completed - June 29, 1952
Total Depth - 425'
Depth of Casing - 425 - 24"

Log Of Well:

0' to 12' soil
12' to 224' Boulders
224' to 380' Clay and gravel
380' to 425' Clay

Perforations:

Perforated 85' to 412'
Perforations 5/8" X 5½" - 12 holes per 12"

Depth at which water was first found 70'
Standing level before perforating 70'
Standing level after perforating 70'

Remarks:

Drilled by Roscoe Moss Company
Driller:J. N. Lard
Cable Tool #33

Cost:

Drilling and casing $9,992.50

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 145

MAR 01 1985

Description of Sample WELL 10E - 3 3/4 ⅃ (A-1-2)14bcb RID #94

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	5.24	24.45	105.00	20.04
Magnesium	Mg	3.04	14.20	37.00	12.16
Sodium	Na	12.88	60.11	296.30	23.00
Potassium	K	0.20	0.93	7.81	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.31	0.71	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		21.43	100.00	446.82	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	6.64	32.46	405.04	61.02
Chloride	Cl	10.27	50.51	364.00	35.46
Sulfate	SO_4	2.64	12.98	124.72	48.03
Nitrate	NO_3	0.74	3.65	46.00	62.01
Fluoride	F	0.04	0.19	0.72	19.00
Phosphate	PO_4	0.00	0.02	0.13	31.66
TOTAL ANIONS		20.32	100.00	934.68	

Conductivity 25° C K = 2000 x 10^{-6}

pH 7.5

Total Dissolved Solids mg per liter 1184

Total Hardness mg per liter 414

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 493

% Sodium 60.11

1986 RID#94

SAMPLE ID:	10E 3 3/4 N	LAB NO:	599
	RV-ME	RV-%	MG/L
CALCIUM	4.80	25.04	96.20
MAGNESIUM	2.85	14.89	34.70
SODIUM	11.29	58.87	259.60
POTASSIUM	0.16	0.83	6.25
BORON	0.07	0.37	0.76
TOTAL	19.17	100.00	397.51
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.20	36.93	439.20
CHLORIDE	8.69	44.57	308.00
SULFATE	2.88	14.77	138.27
NITRATE	0.71	3.62	43.75
FLUORIDE	0.02	0.11	0.40
PHOSPHATE	0.00	0.00	0.01
TOTAL	19.49	100.00	706.34
CONDUCTIVITY	1890.00		
PH	7.30		
TDS	1103.84		
TH	383.04		
NC HARDNESS	0.00		
ALKALINITY	535.54		
% SODIUM	58.87		

1987 RID #94

SAMPLE ID: 10E 3 3/4N LAB NO: 257

	RV-ME	RV-%	MG/L
CALCIUM	4.49	23.75	90.00
MAGNESIUM	2.54	13.44	30.90
SODIUM	11.70	61.88	269.20
POTASSIUM	0.11	0.60	4.41
BORON	0.06	0.34	0.69
TOTAL	18.91	100.00	395.20
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.20	37.22	439.20
CHLORIDE	10.21	52.80	362.00
SULFATE	1.29	6.69	62.18
NITRATE	.61	3.18	38.10
FLUORIDE	0.02	0.10	0.37
PHOSPHATE	0.00	0.01	0.05
TOTAL	19.34	100.00	678.61

CONDUTIVITY	2000.00
PH	7.30
TDS	1073.81
TH	351.91
NC HARDNESS	1001.03
ALKALINITY	535.54
% SODIUM	61.88

1988 RID # 94

SAMPLE ID: 10E-33/4N LAB. NO: 160

	RV-ME	RV-%	MG/L
CALCIUM	4.78	24.56	95.75
MAGNESIUM	2.73	14.06	33.25
SODIUM	11.70	60.17	269.20
POTASSIUM	0.17	0.89	6.80
BORON	0.06	0.31	0.66
TOTAL	19.45	100.00	405.66
CARBONATE	0.20	0.00	0.00
BICARBONATE	6.72	34.38	409.92
CHLORIDE	9.48	48.49	336.00
SULFATE	2.69	13.74	129.00
NITRATE	0.63	3.21	38.87
FLUORIDE	0.03	0.18	0.65
PHOSPHATE	0.00	0.01	0.05
TOTAL	19.54	100.02	784.09

CONDUCTIVITY	1500.00
PH	7.30
TDS	1111.74
TH	275.94
NC HARDNESS	0.00
ALKALINITY	499.84
% SODIUM	60.17

1989 RID # 94

SAMPLE ID: 10E-3 3/4N LAB. NO: 211

	RV-ME	RV-%	MG/L
CALCIUM	3.78	22.40	75.70
MAGNESIUM	2.30	13.65	28.00
SODIUM	10.53	62.45	242.20
POTASSIUM	0.19	1.12	7.40
BORON	0.06	0.38	0.69
TOTAL	16.86	100.00	353.99
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.04	39.13	429.44
CHLORIDE	8.91	49.55	316.00
SULFATE	1.87	10.42	90.00
NITRATE	0.11	0.60	6.65
FLUORIDE	0.05	0.30	1.02
PHOSPHATE	0.00	0.01	0.05
TOTAL	17.99	100.00	624.83
CONDUCTIVITY	1.80		
PH	7.30		
TDS	978.82		
TH	304.27		
NC HARDNESS	0.00		
ALKALINITY	523.64		
% SODIUM	62.45		

RID #94

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller (Name)
(Address)

4. Location of well: Twp. 1 N Rge. 2 E. Section 14 NW 1/4 SW 1/4 NW 1/4 (10-acre subdivision)
10 E - 3 3/4 m

DESCRIPTION OF WELL

5. Total depth of hole 161 ft.

6. Type of casing 10 gal. D.C

7. Diameter and length of casing 18 in. from 0 to 161, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 50 to 151, from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 3/4" x 4" Number cuts per foot 12

11. If screen was installed: Length ____ ft. Diam ____ in. Type ____

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed Jan. 6 - 22 (Month Year) Deepened ____ (Month Year)

14. Depth to water when drilled ____ ft.
If flowing well, so state.

15. Present depth to water 73.5 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 13.0 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____ weir, orifice, current meter, etc.

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: Twp. ____ Rge. ____ Section ____ ____ Acres ____
(See 24) Legal subdivision
Twp. ____ Rge. ____ Section ____ ____ Acres ____
Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District
Name of Project

EQUIPMENT DATA

25. Kind of pump ____ turbine, centrifugal, etc.

26. Kind of power Elec. electric, natural gas, etc.

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-2-46 by lj
File No. (A-1-2)14 bcb
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	6	Adobe soil
6	25	Clay
25	130	Gravel and boulders
130	161	Gravel and boulders- Tightly packed and did not carry much water as formation above 130'

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

FORM W-6 1M 3-49 JAHN-TYLER (A-1-2)14 bbc Appl. No. S-36 Permit No. S-34

RID#94

Land Department
Ground Water Division
State of Arizona

10E - 3 3/4 N

REPORT OF WELL DRILLED IN CRITICAL AREA

Report of Well Drilled in Critical Area is required to be made and filed with the State Land Commissioner upon completion of the construction of such well, pursuant to Section 10, Chapter 5, House Bill No. 2, Eighteenth Legislature, Sixth Special Session, 1948.

1. Owner Roosevelt Irrigation District (Name) Buckeye, Arizona (Address)
2. Lessee or Operator _____ (Name) _____ (Address)
3. Driller Roscoe Moss Company (Name) Los Angeles, Calif. (Address)
4. Location of Well: Twp. 1 N. Rge. 2 E. Sec. 14 Legal Subdivision SW ¼ NW ¼ NW ¼ (10 acre subdivision)

   It is _____ (if less than ¼ mile) yards _____ (direction) from the nearest irrigation well. 10E-3 3/4N
5. Purpose of use Irrigation
6. Place of use: Twp. _____ Rge. _____ Section(s) _____, _____ (Legal Subdivision) Acres _____
7. If well is part of Irrigation District, Association, or Company, omit 6 and give name of project: _____

   District lands

DESCRIPTION OF WELL

8. Total depth of hole 425 ft. 9. Type of Casing Hard red steel
10. Diameter and length of casing: 24 in. from 0 ft. to 425 ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft.
11. Method of sealing at reduction points _____
12. Perforated from 85 ft. to 412 ft; from _____ ft. to _____ ft; from _____ ft. to _____ ft.
13. Size of cuts 5/8 x 5-1/2 Number of cuts per foot 12 per 12 inches
14. If screen was installed: Length _____ ft. Diameter _____ in. Type _____
15. Method of drilling Calif Type Cable Tool (drilled, dug, driven, bored, etc.)
16. Date completed June 29, 1952 (Month, Year) 17. Depth to water 70 ft. (if flowing well, so state)
18. Describe points from which depth measurements were made Ground Surface.

    _____ Sea-level elevation _____ (if available)
19. Method of flow regulation if flowing well _____

REPORT OF PUMP INSTALLATION AND TEST

20. Tested well capacity _____ (gallons per minute) Method of measurement _____ (weir, orifice, meter, etc.)
21. Depth immediately prior to capacity test, from land surface to static water level _____ ft.
22. Non-flowing well: Drawdown _____ ft. measured after _____ (at least 4) hours of continuous operation, and while pump is still operating.
23. Flowing well: Shut-in pressure _____ ft. above the land surface, or _____ pounds per square inch at the land surface.
24. Kind of Pump _____ (turbine, centrifugal, etc.)
25. Kind of Power _____ (electric, natural gas, etc.)
26. Horsepower Rating of Motor _____
27. Permittee _____ (Signature)

X

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 8-8-52 by lec
Filed 8-8-52 by lec
File No. (A-1-2)14 bbc
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water-bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (feet)	TO (feet)	DESCRIPTION OF FORMATION MATERIAL
0	12	Soil
12	224	Boulders
224	380	Clay and gravel
380	425	Clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, Calif
Address

Date August 5, 1952

NOTE: Report and Log are to be completed by the permittee and driller, and mailed by the permittee to the Ground Water Division of the State Land Department immediately upon completion of the well and pumping test.

ROOSEVELT IRRIGATION DISTRICT

Redrill

REPORT ON WELL 10E-4¼N (#95)

4548

Work started - July 7, 1964
Work Completed - December 29, 1964
Total Depth - 1800 feet
Depth of Casing - 1800 feet

LOG OF WELL

0 - 12 Top soil
12 - 114 sand and boulders
114 - 253 Loose sand and gravel
253 - 280 clay and gravel
280 - 350 caliche, clay and gravel
350 - 360 sand and gravel.
360 - 385 sticky clay with hard streaks
385 - 410 sandy clay, coarse gravel
410 - 485 sticky clay, hard streaks
485 - 760 sticky gray clay
760 - 775 sand and gravel
775 - 795 sticky clay
795 - 807 sand and gravel
807 - 915 sticky clay, sandy streaks
915 - 1185 sand and gravel, some clay
1185- 1240 tight gravel, some clay
1240- 1530 granite, rock embedded in clay
1530- 1800 conglomerate, or hill formation.

PERFORATION

24" - 180' to 815' 12 holes per 5 inches
20" - 836' to 1470' 10 holes per 5 inches
16" - 1497' to 1775' 8 holes per 4 inches
Moss Hydraulic perforator used
Diameter of Perforations 5/16"
Length of Perforations 2¼"
Depth at which water first found 135'
Standing level before perforating 71'
Standing level after perforating 89'

836' of 24" 6 & 8 ga. casing used and left in well
678' of 20" 8 ga. casing used and left in well
317' of 16" 8 ga. casing used and left in well

REMARKS

Drilled by Roscoe Moss Company
Drillers - H.C. Cope, J.E. Garner, & M.G. Cope
Cable Tool Rig No. 47

Cost $65,273.88

RID #95

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller J. M. Olson (Name)
Roscoe Mosal Co. (Address)

4. Location of well: Twp. 1N Rge. 2E. Section 11 SW NW ¼ ¼ SW ¼ (10-acre subdivision)
10E - 4 1/4 N 1800

DESCRIPTION OF WELL

5. Total depth of hole 300 ft.

6. Type of casing 8 ga.

7. Diameter and length of casing 14 in. from 0 to 300' in. from to , in. from to

8. Method of sealing at reduction points

9. Perforated from 65' to 280', from to , from to , from to

10. Size of cuts 3/4" x 5" Number cuts per ~~foot~~ 18 holes per ft.

11. If screen was installed: Length ft. Diam in. Type

12. Method of construction Driven (drilled, dug, driven, bored, jetted, etc.)

13. Date completed April '28 (Month, Year) Deepened March '44 (Month, Year) to above.

14. Depth to water when drilled 50 ft. (If flowing well, so state.)

15. Present depth to water 73.0 ft. Date of measurement 5-1-46 (If flowing well, so state.)

16. Describe point from which depth measurements were made, and give sea-level elevation if available

17. If flowing well, state method of flow regulation

DISCHARGE DATA

18. Well discharge 10.0 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement (weir, orifice, current meter, etc.)

20. Drawdown ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 a.f. or hrs. 1945 a.f. or hrs.

22. Purpose of use

23. Place of use: (See 24) Twp. Rge. Section Legal subdivision Acres
Twp. Rge. Section Legal subdivision Acres

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump turbine, centrifugal, etc.

26. Kind of power Elec. electric, natural gas, etc.

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-2-46 by lj
File No. (A-1-2)11 cbc
Cross-referenced (Name) by
Cross-referenced (Basin) by
Cross-referenced by

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	10	Clay
10	15	Sand
15	170	Sand, gravel & boulders to 10"
170	184	Sandy clay soft
184	235	Sand and gravel to 6"
235	300	Hard caliche clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

BY ..... DATE ..... SUBJECT ..... SHEET NO. ..... OF .....

CHKD. BY ..... DATE ..... Drillers Log JOB NO. .....

R.I.D. Well 10E-4½N

(#95)

4511 3 Paul

0 - 12	Top soil
12 - 135	Sand, gravel & boulders
135 - 253	Loose sand & gravel
253 - 280	Clay & gravel
280 - 330	Caliche, clay & gravel
330 - 350	Tough clay
350 - 360	Sand & gravel
360 - 385	Sticky clay
385 - 410	Sticky clay & gravel
410 - 485	Sticky clay, hard streaks
485 - 560	Gray sticky clay
560 - 760	Brown sticky clay
760 - 775	Sand & gravel
775 - 795	Sticky clay
795 - 807	Sand & gravel
807 - 875	Sticky clay, sand streaks
875 - 915	Hard sandy clay
915 - 1000	Sand & gravel, some clay
1000 - 1130	Tight sand & gravel, some clay
1130 - 1185	Sand & gravel, some clay
1185 - 1240	Tight gravel, some clay
1240 - 1280	Granite & rock, some clay
1280 - 1375	Granite embedded in clay
1375 - 1490	Granite, rock & clay
1490 - 1505	Granite, rock & clay
1505 - 1555	Conglomerate
1555 - 1615	Conglomerate
1615 - 1660	Hard hill formation
1660 - 1750	Conglomerate
1750 - 1800	Conglomerate

180 -

1800

ROSCOE MOSS CO.

4360 Worth St., Los Angeles 63, Calif.

4549

WELL TEST REPORT

Customer Roosevelt Irrigation District Date Jan 28, 1965

Address Buckeye, Arizona.

Well No. or Name Well #10-E-4-1/4-N 10cbc (#95)

Location SW-1/4, NW-1/4, SW-1/4, Sec 11, Twp 1-N, Range 2-E, Maricopa County, Ariz.

TEST RESULTS.

Note: Pump at least one hour or until well has stabilized for each flow.

	Beginning of Development	FINAL TEST				
		High	Second	Third	Fourth	Low
GPM	1050	3600	2525	1525		
Pumping level	116'	136'	122'	115'		
Static level	88'	107'	107'	107'		
Draw-down	28'	29'	15'	8'		
Specific yield	37.5	124.1	168.	190		
Pump RPM						

Static Level after completion of test (5 minute recovery) 107 feet.

Total pumping time 80-1/2 hours.

Pumping Equipment used:

Pump Bowls: Nominal Diam 18 inches. R. M. Co. serial no _____

Column diam 12 in. Shaft diam. 1-15/16. Tubing diam. 3 in.

Depth of setting to top of bowls 340 feet. Pump pulley diam. 16 in.

Engine: Manufacturer _____ Model no. _____ R.M. Co. Serial no. _____

Total fuel consumed 1100 gallons. Total oil consumed 12 gallons.

REMARKS _____

W. R. McMahan.

OPERATOR.

TABLE 2. RESULTS OF WATER-LEVEL RECOVERY TESTS

Well Location 1/	Transmissivity (gpd/ft)	Pumping Rate (gpm) Beginning	End	Average	24-Hour Specific Capacity (gpm/ft of drawdown)	Two-Hour Specific Capacity (gpm/ft of drawdown) 2/	Date of Test 3/	Land Surface Elevation (feet above mean sea level)	Static Water Level (feet below datum)	Pumping Water Level (feet below datum) 4/	Open Interval (feet below land surface) 5/
A(1-1) 2cce	129,750	-	3,172	-	38.0	73.0	7-10-79	1,030	88.6	172.2	300-898
3abb$_2$	128,100	3,026	2,980	3,003	84.9	-	7-06-79	1,029	145.1	180.2	200-585
9bbb$_2$	111,400	3,366	3,299	3,333	77.3	90.8	8-28-79	1,008	101.5	144.2	144-488
10ccc	230,000	-	3,615	-	128.0	153.6	7-05-79	1,002	65.2	93.0	150-662
11add	60,700	-	2,335	-	29.8	32.8	7-05-79	1,029	95.5	174.1	300-800
RID# 95 X 11cbc	38,000	-	2,160	-	24.5	26.1	7-06-79	1,020	166.5	254.6	325-800
19abb	-	2,335	2,229	2,282	155.9	190.2	9-05-79	979	47.2	61.5	50-140
21abb$_2$	139,900	2,783	2,592	2,688	102.0	-	7-06-79	985	46.8	72.2	195-572
24aac	720,000	-	3,696	-	267.0	289.5	9-04-79	1,012	63.7	75.0	225-560
28cdb	600,000	-	4,178	-	182.0	-	9-07-79	964	21.3	44.3	50-140
A(1-2) 18ddd$_2$	179,300	4,095	4,054	4,075	85.3	95.4	8-31-79	1,028	67.3	114.9	200-780
A(1-3) 2aaa	61,700	3,000	2,720	2,860	60.2	87.0	9-13-79	1,137	56.0	101.3	90-212
A(1-4) 1aba	23,000	1,063	-	-	-	10.7	6-26-79	1,209	197.7	299.0	90-465
1cda$_2$	108,400	-	1,929	-	33.7	38.5	6-26-79	1,197	225.2	282.5	300-820
2dbb	91,000	-	1,586	-	37.7	65.5	6-18-79	1,200	213.8	255.9	210-610
19acc	62,500	931	875	903	38.8	24.7	7-31-79	1,129	41.0	79.9	100-436
RID #98 X 24bbb	169,200	3,869	3,500	3,685	127.0	465.0	6-14-79	1,178	118.0	147.0	150-525
A(1-5) 1add	367,700	2,772	2,799	2,782	64.2	153.0	8-22-79	1,250	324.0	367.6	700-1,025
1bda	320,000	-	2,096	-	206.5	185.5	8-23-79	1,241	287.2	297.4	216-671
2aaa$_2$	467,300	2,965	2,344	2,655	180.3	67.3	8-21-79	1,240	257.0	270.0	350-1,110
2bbb$_2$	612,000	2,876	2,819	2,848	122.6	128.4	8-02-79	1,226	228.0	251.0	300-625
2cbb$_2$	-	2,558	2,424	2,419	146.0	-	8-23-79	1,228	231.4	248.1	200-800
2cdd$_2$	304,000	3,930	3,903	3,917	163.0	184.7	8-24-79	1,231	251.0	274.9	300-988
2dbb	354,300	3,061	2,978	3,020	73.0	130.2	8-03-79	1,230	252.1	269.9	350-1,080

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 83

Description of Sample 10 E-4 1/4 N (A-1-2)11cbc RID#95

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

MAR 01 1995

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.01	21.22	60	20.04
Magnesium	Mg	2.43	17.12	30	12.16
Sodium	Na	8.61	60.76	198	23.00
Potassium	K	0.11	0.78	4.31	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.02	0.13	0.19	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		14.17		292.25	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	3.12	22.54	190	61.02
Chloride	Cl	9.14	66.04	324	35.46
Sulfate	SO_4	1.38	9.97	66	48.03
Nitrate	NO_3	0.15	1.10	9	62.01
Fluoride	F	0.05	0.34	0.90	19.00
Phosphate	PO_4	0.00	0.00	0.01	31.66
TOTAL ANIONS		13.84		494.15	

Conductivity 25° C K = 1500 x 10^{-6}

pH 8.0

Total Dissolved Solids mg per liter 786

Total Hardness mg per liter 272

Non Carbonate Hardness mg per liter 40

Alkalinity as $CaCO_3$ mg per liter 232

% Sodium 60.76

1986 RID# 95

SAMPLE ID:	10E-4 1/4N	LAB NO:	465
	RV-ME	RV-%	MG/L
CALCIUM	3.01	20.76	60.25
MAGNESIUM	2.57	17.75	31.25
SODIUM	8.75	60.41	201.20
POTASSIUM	0.13	0.91	5.17
BORON	0.02	0.16	0.25
TOTAL	14.48	100.00	298.12
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.24	29.05	258.64
CHLORIDE	8.57	58.75	304.00
SULFATE	1.44	9.86	69.12
NITRATE	.30	2.03	18.36
FLUORIDE	0.05	0.31	0.86
PHOSPHATE	0.00	0.01	0.03
TOTAL	14.59	100.00	519.52

CONDUCTIVITY	1920.00
PH	7.60
TDS	817.64
TH	279.07
NC HARDNESS	0.00
ALKALINITY	315.38
% SODIUM	60.41

1987 RID#95

SAMPLE ID: 10E 4 1/4N LAB NO: 232

	RV-ME	RV-%	MG/L
CALCIUM	3.49	24.20	70.00
MAGNESIUM	2.47	17.09	30.00
SODIUM	8.28	57.38	190.50
POTASSIUM	0.14	0.98	5.51
BORON	0.05	0.35	0.55
TOTAL	14.43	100.00	296.56
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.80	31.94	292.80
CHLORIDE	8.74	58.20	310.00
SULFATE	1.30	8.68	62.64
NITRATE	.12	.77	7.20
FLUORIDE	0.04	0.29	0.83
PHOSPHATE	0.02	0.11	0.53
TOTAL	15.02	100.00	525.14

CONDUTIVITY	1400.00
PH	7.20
TDS	821.69
TH	298.27
NC HARDNESS	1001.03
ALKALINITY	357.03
% SODIUM	57.38

1988 RID # 95

SAMPLE ID: 10E-41/4N LAB. NO: 161

	RV-ME	RV-%	MG/L
CALCIUM	3.12	22.84	62.50
MAGNESIUM	2.36	17.32	28.75
SODIUM	8.02	58.75	184.50
POTASSIUM	0.13	0.97	5.16
BORON	0.02	0.13	0.19
TOTAL	13.65	100.00	281.10
CARBONATE	0.00	0.00	0.00
BICARBONATE	3.76	26.88	229.36
CHLORIDE	8.80	62.91	312.00
SULFATE	1.12	8.04	54.00
NITRATE	0.27	1.93	16.78
FLUORIDE	0.03	0.23	0.62
PHOSPHATE	0.00	0.01	0.03
TOTAL	13.99	100.00	613.18
CONDUCTIVITY	1400.00		
PH	7.60		
TDS	777.28		
TH	274.40		
NC HARDNESS	0.00		
ALKALINITY	279.67		
% SODIUM	58.75		

1989 RID #95

SAMPLE ID: 10E-4 1/4N LAB. NO: 212

	RV-ME	RV-%	MG/L
CALCIUM	3.22	21.94	64.60
MAGNESIUM	2.22	15.11	27.00
SODIUM	9.06	61.67	208.40
POTASSIUM	0.16	1.06	6.10
BORON	0.03	0.22	0.35
TOTAL	14.69	100.00	306.45
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.72	31.12	287.92
CHLORIDE	9.25	61.01	328.00
SULFATE	1.12	7.42	54.00
NITRATE	0.06	0.40	3.77
FLUORIDE	0.01	0.05	0.15
PHOSPHATE	0.00	0.00	0.02
TOTAL	15.16	100.00	527.48
CONDUCTIVITY	1.52		
PH	7.40		
TDS	833.93		
TH	272.44		
NC HARDNESS	0.00		
ALKALINITY	351.08		
% SODIUM	61.67		

ROOSEVELT IRRIGATION DISTRICT

4555

REPORT ON WELL 10-1/8E-3-1/4N (# 96)

Work Started - February 1, 1968
Work Completed - May 7, 1968
Total Depth - 800 feet

LOG OF WELL

0 - 10 Clay
10 - 105 Gravel and boulders
105- 220 Sand, gravel and boulders
220- 245 Sand and gravel
245- 290 Sandy clay
290- 300 Sand and gravel
300- 375 Clay
375- 420 Sandy clay
420- 735 Clay
735- 800 Sandy clay

PERFORATION

Perforated 123 ft to 788 ft. 10 holes per 5 inches
Diamert of Perforations 1/4 inch
Length of Perforations 2-1/2 inches
Moss Hydraulic Perforator Used

Water level when test started - 78 feet
Draw down at completion of test - 41 ft.
No. of gal. per minute at completion of test - 4000

REMARKS

Drilled by Roscoe Moss Company - Weber Drilling Co.
Driller - Julius Vervoorn and H. Holmes
Rig #46

4551

ROSCOE MOSS CO.

4360 Worth St., Los Angeles 63, Calif.

WELL TEST REPORT

Customer ROOSEVELT IRRIGATION DISTRICT, Date June 2, 1968

Address Tolleson, Arizona.

Well No. or Name 10-1/8-E-3-1/4-N., Maricopa County, Arizona. (#96)

Location 32nd and Van Buren Streets, Phoenix, Arizona.

TEST RESULTS.

Note: Pump at least one hour or until well has stabilized for each flow.

	Beginning of Development	FINAL TEST				
		High	Second	Third	Fourth	Low
1st Test GPM 2nd"	*400 1850	840 4000	3500	3000	2500	2000
Pumping level	*158' 79'	235' 112'	90	86	82	79
Static level	*78' 71'	78' 71'	71'	71'	71'	71'
Draw-own	*80 8'	157' 41'	19'	15'	11'	8'
Specific yield	*5.0 231.2	5.3 97.5	184.2	200	227.3	250
Pump RPM	*860 800	1025 1800	1600	1400	1175	975

Static Level after completion of test (5 minute recovery) _____ feet.

Total pumping time 111 hours. (1st Test 47 hrs) (2nd Test 64 hrs)

Pumping Equipment used:

Pump Bowls: Nominal Diam 14" inches. R. M. Co. serial no None

Column diam 10" in. Shaft diam. 1 15/16" in. Tubing diam. 3" in.

Depth of setting to top of bowls 310 feet. Pump pulley diam. Gearhead used. _____ in.

Engine: Manufacturer GMC Model no. Twin 6-271 R. M. Co. Serial no. __

Total fuel consumed _____ gallons. Total oil consumed _____ gallons.

REMARKS _____

DAN DARNELL.

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 84

Description of Sample 10 1/8 E-3 1/4 N (A-1-2) 14ccb RID#96

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By MAR U 1 1935

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.69	21.16	74	20.04
Magnesium	Mg	2.28	13.07	28	12.16
Sodium	Na	11.27	64.58	259	23.00
Potassium	K	0.15	0.88	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.05	0.31	0.58	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		17.45		367.61	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	5.28	31.06	322	61.02
Chloride	Cl	8.52	50.12	302	35.46
Sulfate	SO_4	2.76	16.23	132	48.03
Nitrate	NO_3	0.40	2.33	25	62.01
Fluoride	F	0.04	0.25	0.80	19.00
Phosphate	PO_4	0.00	0.01	0.04	31.66
TOTAL ANIONS		16.99		618.24	

Conductivity 25° C K = 1720 x 10^{-6}

pH 7.8

Total Dissolved Solids mg per liter 986

Total Hardness mg per liter 299

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 393

% Sodium 64.58

1986 RID #96

SAMPLE ID: 10 1/8E 3 1/4N LAB NO: 466

	RV-ME	RV-%	MG/L
CALCIUM	3.01	20.41	60.25
MAGNESIUM	1.99	13.54	24.25
SODIUM	9.54	64.79	219.50
POTASSIUM	0.13	0.90	5.17
BORON	0.05	0.36	0.57
TOTAL	14.73	100.00	309.74
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.44	35.91	331.84
CHLORIDE	7.73	51.02	274.00
SULFATE	1.56	10.29	74.88
NITRATE	.38	2.51	23.62
FLUORIDE	0.04	0.27	0.77
PHOSPHATE	0.00	0.00	0.01
TOTAL	15.15	100.00	536.41

CONDUCTIVITY	1290.00
PH	7.40
TDS	846.16
TH	250.26
NC HARDNESS	0.00
ALKALINITY	404.63
% SODIUM	64.79

1987 RID # 96

SAMPLE ID: 10 1/SE 3 1/4N LAB NO: 224

	RV-ME	RV-%	MG/L
CALCIUM	3.19	22.52	64.00
MAGNESIUM	2.03	14.32	24.70
SODIUM	8.80	62.04	202.40
POTASSIUM	0.09	0.66	3.68
BORON	0.06	0.45	0.70
TOTAL	14.18	100.00	295.48
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.72	32.16	287.92
CHLORIDE	7.50	51.13	266.00
SULFATE	2.07	14.09	99.30
NITRATE	.35	2.39	21.76
FLUORIDE	0.03	0.22	0.60
PHOSPHATE	0.00	0.00	0.02
TOTAL	14.67	100.00	529.22

CONDUTIVITY	1400.00
PH	7.30
TDS	824.70
TH	261.47
NC HARDNESS	1001.03
ALKALINITY	350.08
% SODIUM	62.04

1988 RID # 96

SAMPLE ID: 101/8E-31/4N LAB. NO: 163

	RV-ME	RV-%	MG/L
CALCIUM	3.53	22.96	70.75
MAGNESIUM	2.06	13.38	25.00
SODIUM	9.57	62.32	220.20
POTASSIUM	0.15	1.00	6.02
BORON	0.05	0.32	0.53
TOTAL	15.36	100.00	322.50
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.76	31.33	290.36
CHLORIDE	8.07	53.10	286.00
SULFATE	2.00	13.16	96.00
NITRATE	0.33	2.16	20.32
FLUORIDE	0.04	0.25	0.71
PHOSPHATE	0.00	0.00	0.02
TOTAL	15.19	100.00	345.79

CONDUCTIVITY	1500.00
PH	7.00
TDS	868.30
TH	274.56
NC HARDNESS	0.00
ALKALINITY	354.05
% SODIUM	62.32

1989 RID #96

SAMPLE ID: 10 1/8E-3 1/4 N LAB. NO: 208

	RV-ME	RV-%	MG/L
CALCIUM	3.14	21.25	62.90
MAGNESIUM	1.97	13.36	24.00
SODIUM	9.44	63.94	217.20
POTASSIUM	0.16	1.06	6.10
BORON	0.06	0.39	0.62
TOTAL	14.77	100.00	310.82
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.28	34.11	322.08
CHLORIDE	8.69	56.14	308.00
SULFATE	1.44	9.28	69.00
NITRATE	0.05	0.35	3.32
FLUORIDE	0.02	0.11	0.33
PHOSPHATE	0.00	0.01	0.04
TOTAL	15.47	100.00	539.03
CONDUCTIVITY	1.70		
PH	7.30		
TDS	849.85		
TH	255.85		
NC HARDNESS	0.00		
ALKALINITY	392.73		
% SODIUM	63.94		

ROOSEVELT IRRIGATION DISTRICT

REPORT ON WELL 10-1/2E-3-1/8N (#97)

Work started - March 25, 1965
Work Completed - October 26, 1965
Total Depth - 1800 feet

4556

LOG OF WELL

0 - 9	Top soil
9- 42	Sand and gravel
42- 212	Loose sand, gravel & boulders
212- 225	Very sandy clay & gravel
225- 260	Sandy clay and gravel, sticky stks
260- 271	Caliche
271- 340	Hard brown clay, embedded gravel
340- 645	Streaks hard sandy clay & sticky stks
645- 715	Sticky sandy clay
715- 743	Sticky clay and 1/2" gravel
743- 860	Sticky clay stks conglomerate
860- 942	Tight sand & gravel 3/4" some clay
942- 972	Sandy brown clay and gravel to 3/4"
972- 1028	Sandy red clay and gravel to 1-1/2"
1028- 1050	Sand & gravel to 5" some clay
1050- 1148	Sandy brown clay and gravel 1"
1148- 1206	Sandy clay and gravel to 12"
1206- 1300	Hard sandy clay and gravel 1"
1300- 1372	Hard sandy clay and gravel 6"
1372- 1408	Hard sandy clay and gravel 1"
1408- 1443	Red clay and granite gravel to 12"
1443- 1800	Hard red sandy clay and gravel 2"

PERFORATION

200 ft to 824 ft 12 holes per 5 inches
836 ft to 1490 ft 10 holes per 5 inches
1500 ft to 1788 ft 8 holes per 4 inches
Moss Hydraulic Perforator used
Diameter of Perforations 1/4" x 2-1/2"
Water first found at 89 ft.
Water standing level before perforation 58 ft.
Water standing level after perforation 58 ft.

838 ft. of 24" casing used and left in well
674 ft. of 20" casing used and left in well
310 ft. of 16" casing used and left in well

REMARKS

Drilled by Roscoe Moss Company
Driller - J. Vervoorn
Cable Tool Rig #45

10 RE-JOIN

DEPARTMENT OF WATER RESOURCES
99 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004

REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE – FILE IN DUPLICATE

07

FOR OFFICE USE ONLY
REGISTRATION NO. 55-607213
FILE NO. A(1-2)14cdd
FILED 5/6/82 (DATE) AT 1:19 (TIME)
INA —
AMA PHOENIX

REGISTRATION FEE (CHECK ONE)	
EXEMPT WELL (NO CHARGE)	☐
NON-EXEMPT WELL – $10.00	☒

ARIZONA DEPT OF WATER RESOURCES '82 MAY -6 A1:19

1. Name of Registrant: Roosevelt Irrigation District
P.O. Box 95 (Address) Buckey (City) AZ (State) 85326 (Zip)

2. File and/or Control Number under previous groundwater law:
A01002014CDDGS2 (File Number) 35- (Control Number)

3. a. The well is located within the SE ¼ SE ¼ SW ¼, Section 14, of Township 1N N/S, Range 2E E/W, G & SRB & M, in the County of Maricopa.
   b. If in a subdivision: Name of subdivision _____, Lot No. _____, Address _____.

4. The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial)
Irrigation.

5. If for irrigation use, number of acres irrigated from well _____.

6. Owner of land on which well is located. If same as Item 1, check this box ☒
(Address) (City) (State) (Zip)

7. Well data (If data not available, write N/A)
   a. Depth of Well 1800 feet
   b. Diameter of casing 24, 20, 16 inches
   c. Depth of casing 1800 feet
   d. Type of casing Steel.
   e. Maximum pump capacity 5958 gallons per minute.
   f. Depth to water 54 feet below land surface.
   g. Date well completed October (Month) 26 (Day) 1965 (Year).

8. The place(s) of use of water. If same as Item 3, check this box ☐.
____ ¼ ____ ¼ ____ ¼, Section ____ Township ____ Range ____
____ ¼ ____ ¼ ____ ¼, Section ____ Township ____ Range ____
Roosevelt Irrigation District
Attach additional sheet if necessary.

9. DATE 4/1/82 SIGNATURE OF REGISTRANT George McLaughlin

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 85

Description of Sample 10 1/2 E - 3 1/8 N (A-1-2) 14cdd RID# 97

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

MAR 01 1977

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.69	24.15	74	20.04
Magnesium	Mg	2.14	13.99	26	12.16
Sodium	Na	9.28	60.72	214	23.00
Potassium	K	0.13	0.86	5.17	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.04	0.28	0.46	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		15.29		319.13	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	4.32	29.78	264	61.02
Chloride	Cl	7.95	54.85	282	35.46
Sulfate	SO_4	1.98	13.65	95	48.03
Nitrate	NO_3	0.21	1.46	13	62.01
Fluoride	F	0.04	0.25	0.70	19.00
Phosphate	PO_4	0.00	0.01	0.04	31.66
TOTAL ANIONS		14.50		520.44	

Conductivity 25° C K = 1550 x 10^{-6}

pH 7.8

Total Dissolved Solids mg per liter 840

Total Hardness mg per liter 292

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 321

% Sodium 60.72

1986 RID #97

SAMPLE ID: 10 1/2E 3 1/8N LAB NO: 467

	RV-ME	RV-%	MG/L
CALCIUM	2.79	20.92	56.00
MAGNESIUM	1.89	14.16	23.00
SODIUM	8.48	63.52	195.10
POTASSIUM	0.15	1.09	5.67
BORON	0.04	0.31	0.45
TOTAL	13.35	100.00	280.22
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.04	36.33	307.44
CHLORIDE	7.22	52.06	256.00
SULFATE	1.32	9.51	63.36
NITRATE	.25	1.77	15.20
FLUORIDE	0.05	0.33	0.86
PHOSPHATE	0.00	0.00	0.01
TOTAL	13.87	100.00	486.57

CONDUCTIVITY	1230.00
PH	7.40
TDS	766.79
TH	234.50
NC HARDNESS	0.00
ALKALINITY	374.88
% SODIUM	63.52

1987 RID #97

SAMPLE ID: 10 1/2E 3 1/8N LAB NO: 258

	RV-ME	RV-%	MG/L
CALCIUM	2.99	22.16	60.00
MAGNESIUM	1.88	13.94	22.90
SODIUM	8.54	63.19	196.40
POTASSIUM	0.06	0.42	2.21
BORON	0.04	0.29	0.43
TOTAL	13.51	100.00	281.94
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.56	32.64	278.16
CHLORIDE	7.33	52.49	260.00
SULFATE	1.80	12.90	86.54
NITRATE	.25	1.80	15.62
FLUORIDE	0.02	0.16	0.42
PHOSPHATE	0.00	0.01	0.04
TOTAL	13.97	100.00	499.36

CONDUTIVITY	1400.00
PH	7.40
TDS	781.29
TH	244.08
NC HARDNESS	1001.03
ALKALINITY	339.18
% SODIUM	63.19

1988 RID#97

SAMPLE ID: 101/2E-31/8N LAB. NO: 162

	RV-MH	RV-%	MG/L
CALCIUM	3.74	25.66	75.00
MAGNESIUM	2.14	14.66	26.00
SODIUM	8.54	58.35	196.40
POTASSIUM	0.13	0.90	5.16
BORON	0.03	0.22	0.35
TOTAL	14.56	102.00	302.91
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.52	31.57	275.72
CHLORIDE	7.73	53.99	274.00
SULFATE	1.75	12.22	84.00
NITRATE	0.29	1.98	17.61
FLUORIDE	0.03	0.23	0.62
PHOSPHATE	0.00	0.01	0.03
TOTAL	14.31	100.00	511.81
CONDUCTIVITY	1400.00		
PH	7.30		
TDS	814.72		
TH	294.29		
NC HARDNESS	0.00		
ALKALINITY	336.20		
% SODIUM	58.55		

1989 RID #97

SAMPLE ID: 10 1/2E-3 1/8N LAB. NO: 209

	RV-ME	RV-%	MG/L
CALCIUM	3.18	22.65	63.80
MAGNESIUM	1.89	13.46	23.00
SODIUM	8.79	62.51	202.10
POTASSIUM	0.15	1.06	5.80
BORON	0.05	0.33	0.51
TOTAL	14.06	100.00	295.21
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.04	32.78	307.44
CHLORIDE	8.07	52.48	286.00
SULFATE	2.19	14.22	105.00
NITRATE	0.04	0.23	2.22
FLUORIDE	0.04	0.28	0.81
PHOSPHATE	0.00	0.01	0.05
TOTAL	15.37	100.00	545.21
CONDUCTIVITY	1.45		
PH	7.40		
TDS	840.42		
TH	253.98		
NC HARDNESS	0.00		
ALKALINITY	374.88		
% SODIUM	62.51		

Arizona Department of Water Resources
Groundwater Management Support Section
P.O. Box 458, Phoenix AZ 85001-0458
(602) 417-2470, (800) 352-8488
www.water.az.us.gov

NO FEE

Administrative Late Registration

SECTION 4. WATER/SITE INFORMATION

PRIMARY USE OF WATER	OTHER USES OF WATER
CHECK ONE	CHECK ALL THAT APPLY
☐ Irrigation (# of acres _____)	☐ Irrigation (# of acres _____)
☐ Utilility	☐ Utilility
☐ Commercial	☐ Commercial
☐ Domestic	☐ Domestic
☐ Municipal	☐ Municipal
☐ Industrial	☐ Industrial
☐ Mining	☐ Mining
☐ Stock	☐ Stock
☐ Recharge	☐ Recharge
☐ Dewatering	☐ Dewatering
☐ Monitoring	☐ Monitoring
☑ Other (Please specify) (NONE)	☐ Other (Please specify)

DEPTH OF WELL	MAXIMUM PUMP CAPACITY
feet	gallons per minute
DEPTH TO WATER feet	
Is this a cancelled Wells 35 well? ☐ Yes ☐ No	

SECTION 5. WELL CONSTRUCTION (to the best of your knowledge)

DEPTH FROM SURFACE			CASING	
FROM (feet)	TO (feet)	BOREHOLE DIAMETER (inches)	OUTER DIAMETER (inches)	MATERIAL

Directions to the well:

Site Description: RID WELL LOCATION FENCED AREA WEST OF CANAL NORTH OF 27TH AVE LANDFILL

Remarks: THIS WAS THE OLD RID WELL THAT WAS REPLACED BY THE CURRENT RID WELL 097B

RID#97

FORM W-2 10-46 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District — (Name)
(Buckeye) Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller B. Kirkland (Name)
Racine Mood Co. (Address)

4. Location of well: Twp. 1N Rge. 2E Section 14 SE ¼ SE ¼ NW ¼ (10-acre subdivision)
10½E-3¼N 3 1/8 N

DESCRIPTION OF WELL

5. Total depth of hole 285 ft.

6. Type of casing 8 ga

7. Diameter and length of casing 24 in. from 0 to 274, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 55 to 260, from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 1/2" x 5" Number cuts per foot ____

11. If screen was installed: Length ____ ft. Diam ____ in. Type ____

12. Method of construction ____ (drilled, dug, driven, bored, jetted, etc.)

13. Date completed ____ (Month, Year) Deepened ____ (Month, Year)

14. Depth to water when drilled 37 ft.
If flowing well, so state.

15. Present depth to water 68.0 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 15.0 (gal. per min. or cu. ft. per sec. or miner's inches.)

19. Method of discharge measurement ____ (weir, orifice, current meter, etc.)

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: Twp. ____ Rge. ____ Section ____ ____ Acres ____
(See 24) Legal subdivision
Twp. ____ Rge. ____ Section ____ ____ Acres ____
Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District
Name of Project

EQUIPMENT DATA

25. Kind of pump ____ (turbine, centrifugal, etc.)

26. Kind of power Elec (electric, natural gas, etc.)

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-2-46 by lj
File No. (A-1-2)14 bdd
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	9	Soil
9	34	Large gravel
34	130	Sand, gravel and boulders
130	205	Sand and gravel 8"
205	226	Muddy sand and gravel 4"
226	230	Hard sandy clay
230	250	Soft sandy clay
250	285	Clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

Redrill

ROOSEVELT IRRIGATION DISTRICT

Report on Well 11E-3N (#98)

4557

Work started - March 31, 1965
Work completed - August 28, 1965
Total depth - 1675 feet

Log of Well

0-8 top soil
8-158 gravel & boulders, loose
158-190 loose sand and gravel
190-215 boulders, some clay
215-240 loose sand and gravel
240-250 caliche clay and gravel
250-276 sandy clay, streaks of gravel
276-302 sandy clay, cement streaks
302-337 sand, gravel, some clay
337-410 clay and gravel
410-685 sticky clay and hard streaks
685-1050 sandy clay and gravel
1050-1260 gravel
1260-1312 granite formation
1312-1590 red hill formation
1590-1630 brown hill formation
1630-1675 red hill formation

Perforations

Moss Hydraulic Perforator used - $\frac{1}{4}$"x2$\frac{1}{2}$"
200-785 ft. 12 holes per 5 inches
800-1480 ft. 10 holes per 5 inches
1500-1665 ft. 8 holes per 4 inches

Water level 62 ft. both before & after perforation
800 ft. of 24" casing used & left in well
710 ft. of 20" casing used & left in well
193 ft. of 16" casing used & left in well
14' lap of 20" into 24" and 14' lap of 16" into 20"

Sandpumped 20 and 24 inch & brought in 140' of sand.
Top of 20" casing is 786 feet, bottom at 1496'.
Top of 16" casing 1482, bottom 1675 feet.

Remarks

Driller - Roscoe Moss Company
J. E. Garner & H. C. Cope
Cable Tool Rig #47

Cost $61,009.60

TABLE 2. RESULTS OF WATER-LEVEL RECOVERY TESTS

Well Location 1/	Transmissivity (gpd/ft)	Pumping Rate (gpm) Beginning	End	Average	24-Hour Specific Capacity (gpm/ft of drawdown)	Two-Hour Specific Capacity (gpm/ft of drawdown) 2/	Date of Test 3/	Land Surface Elevation (feet above mean sea level)	Static Water Level (feet below datum)	Pumping Water Level (feet below datum) 4/	Open Interval (feet below land surface) 5/
A(1-1) 2ccc	129,750	-	3,172	-	38.0	73.0	7-10-79	1,030	88.6	172.2	300-898
3abb$_2$	128,100	3,026	2,980	3,003	84.9	-	7-06-79	1,029	145.1	180.2	200-585
9bbb$_2$	111,400	3,366	3,299	3,333	77.3	90.8	8-28-79	1,008	101.5	144.2	144-488
10ccc	230,000	-	3,615	-	128.0	153.6	7-05-79	1,002	65.2	93.0	150-662
11add	60,700	-	2,335	-	29.8	32.8	7-05-79	1,029	95.5	174.1	300-800
RID #95 X 11cbc	38,000	-	2,160	-	24.5	26.1	7-06-79	1,020	166.5	254.6	325-800
19abb	-	2,335	2,229	2,282	155.9	190.2	9-05-79	979	47.2	61.5	50-140
21abb$_2$	139,900	2,783	2,592	2,688	102.0	-	7-06-79	985	46.8	72.2	195-572
24aac	720,000	-	3,696	-	267.0	289.5	9-04-79	1,012	63.7	75.0	225-560
28cdb	600,000	-	4,178	-	182.0	-	9-07-79	964	21.3	44.3	50-140
A(1-2) 18ddd$_2$	179,300	4,095	4,054	4,075	85.3	95.4	8-31-79	1,028	67.3	114.9	200-780
A(1-3) 2aaa	61,700	3,000	2,720	2,860	60.2	87.0	9-13-79	1,137	56.0	101.3	90-212
A(1-4) 1aba	23,000	1,063	-	-	-	10.7	6-26-79	1,209	197.7	299.0	90-465
1cda$_2$	108,400	-	1,929	-	33.7	38.5	6-26-79	1,197	225.2	282.5	300-820
2dbb	91,000	-	1,586	-	37.7	65.5	6-18-79	1,200	213.8	255.9	210-610
19acc	62,500	931	875	903	38.8	24.7	7-31-79	1,129	41.0	79.9	100-436
RID #98 X 24bbb	169,200	3,869	3,500	3,685	127.0	465.0	6-14-79	1,178	118.0	147.0	150-525
A(1-5) 1add	367,700	2,772	2,799	2,782	64.2	153.0	8-22-79	1,250	324.0	367.6	700-1,025
1bda	320,000	-	2,096	-	206.5	185.5	8-23-79	1,241	287.2	297.4	216-671
2aaa$_2$	467,300	2,965	2,344	2,655	180.3	67.3	8-21-79	1,240	257.0	270.0	350-1,110
2bbb$_2$	612,000	2,876	2,819	2,848	122.6	128.4	8-02-79	1,226	228.0	251.0	300-625
2cbb$_2$	-	2,558	2,424	2,419	146.0	-	8-23-79	1,228	231.4	248.1	200-800
2cdd$_2$	304,000	3,930	3,903	3,917	163.0	184.7	8-24-79	1,231	251.0	274.9	300-988
2dbb	354,300	3,061	2,978	3,020	73.0	130.2	8-03-79	1,230	252.1	269.9	350-1,080

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 147

MAR 01 1985

Description of Sample WELL 11E-3N (A-1-2) 24666 RID#98

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.74	23.81	75.00	20.04
Magnesium	Mg	2.45	15.57	29.75	12.16
Sodium	Na	9.32	59.29	214.30	23.00
Potassium	K	0.14	1.02	4.25	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.05	0.32	0.54	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		15.72	100.00	325.84	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	4.80	30.54	292.80	61.02
Chloride	Cl	8.69	55.28	308.00	35.46
Sulfate	SO_4	1.74	11.07	83.52	48.03
Nitrate	NO_3	0.45	2.88	28.03	62.01
Fluoride	F	0.04	0.22	0.67	19.00
Phosphate	PO_4	0.00	0.02	0.10	31.66
TOTAL ANIONS		15.71	100.00	564.26	

Conductivity 25° C K = 1760 x 10^{-6}

pH 7.5

Total Dissolved Solids mg per liter 890

Total Hardness mg per liter 310

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 357

% Sodium 59.29

1986 RID#98

SAMPLE ID: 11E 3N LAB NO: 469

	RV-ME	RV-%	MG/L
CALCIUM	2.79	19.62	56.00
MAGNESIUM	1.99	14.00	24.25
SODIUM	9.28	63.13	213.40
POTASSIUM	0.13	0.93	5.17
BORON	0.05	0.32	0.50
TOTAL	14.25	100.00	299.32
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.48	30.69	273.28
CHLORIDE	8.23	56.43	292.00
SULFATE	1.50	10.27	72.00
NITRATE	.33	2.28	20.62
FLUORIDE	0.05	0.33	0.91
PHOSPHATE	0.00	0.00	0.02
TOTAL	14.59	100.00	519.90

CONDUCTIVITY	1410.00
PH	7.50
TDS	819.22
TH	239.65
NC HARDNESS	0.00
ALKALINITY	333.23
% SODIUM	65.13

1987 RID #98

SAMPLE ID: 11E 3N LAB NO: 262

	RV-ME	RV-%	MG/L
CALCIUM	3.29	22.39	66.00
MAGNESIUM	1.98	13.47	24.10
SODIUM	9.32	63.34	214.30
POTASSIUM	0.07	0.45	2.57
BORON	0.05	0.35	0.55
TOTAL	14.71	100.00	307.52
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.48	30.34	273.28
CHLORIDE	8.07	54.63	286.00
SULFATE	1.88	12.76	90.48
NITRATE	.32	2.17	19.82
FLUORIDE	0.01	0.10	0.27
PHOSPHATE	0.00	0.01	0.04
TOTAL	14.76	100.00	530.96

CONDUTIVITY	1500.00
PH	7.40
TDS	838.48
TH	264.00
NC HARDNESS	1001.03
ALKALINITY	333.23
% SODIUM	63.34

1988 RID#98

SAMPLE ID: 11E-3N LAB. NO: 164

	RV-ME	RV-%	MG/L
CALCIUM	3.53	23.27	70.75
MAGNESIUM	2.14	14.10	26.00
SODIUM	9.32	61.42	214.30
POTASSIUM	0.14	0.94	5.59
BORON	0.04	0.27	0.44
TOTAL	15.17	100.00	317.08
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.90	31.08	292.80
CHLORIDE	8.29	53.69	294.00
SULFATE	1.87	12.14	90.00
NITRATE	0.44	2.97	27.47
FLUORIDE	0.03	0.22	0.64
PHOSPHATE	0.00	0.01	0.05
TOTAL	15.44	100.00	356.07
CONDUCTIVITY	1400.00		
PH	7.32		
TDS	873.17		
TH	284.68		
NC HARDNESS	0.00		
ALKALINITY	357.0[illegible]		
% SODIUM	61.42		

1989 RID# 98

SAMPLE ID: 11E 3N LAB. NO: 251

	RV-ME	RV-%	MG/L
CALCIUM	3.54	22.71	71.00
MAGNESIUM	2.24	14.34	27.20
SODIUM	9.62	61.64	221.20
POTASSIUM	0.16	1.02	6.25
BORON	0.05	0.29	0.50
TOTAL	15.60	100.00	326.15
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.80	31.44	292.80
CHLORIDE	8.35	54.69	296.00
SULFATE	2.00	13.10	96.00
NITRATE	0.08	0.54	5.09
FLUORIDE	0.04	0.23	0.67
PHOSPHATE	0.00	0.01	0.03
TOTAL	15.26	100.00	541.74
CONDUCTIVITY	1.50		
PH	7.40		
TDS	867.89		
TH	289.24		
NC HARDNESS	0.00		
ALKALINITY	357.03		
% SODIUM	61.64		

RID #98

FORM W-2 10-46 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller J. N. Olson (Name)
Roscoe Moss Co. (Address)

4. Location of well: Twp. 1N Rge. 2E Section 24 SE ¼ NW ¼ NW ¼ (10-acre subdivision)
11E-3N

DESCRIPTION OF WELL

5. Total depth of hole ~~300~~ 1675 ft.

6. Type of casing 8 ga.

7. Diameter and length of casing 24 in. from 0 to 258, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 50 to 242, from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 3/4" X 5" Number cuts per ~~foot~~ 12 holes 10"

11. If screen was installed: Length ____ ft. Diam. ____ in. Type ____

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed 5-28-28 (Month, Year) Deepened June 1944 to above (Month, Year)

14. Depth to water when drilled 40 ft.
If flowing well, so state.

15. Present depth to water 70.0 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 12.5 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____ weir, orifice, current meter, etc.

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: Twp. ____ Rge. ____ Section ____ ____ Acres ____
(See 24) Legal subdivision
Twp. ____ Rge. ____ Section ____ ____ Acres ____
Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District
Name of Project

EQUIPMENT DATA

25. Kind of pump ____ turbine, centrifugal, etc.

26. Kind of power Elec electric, natural gas, etc.

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by JJ
Filed 8-2-46 by JJ
File No. (A-1-2)24 ~~bbd~~
Cross-referenced (Name) ____ by BBB
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	10	Silt
10	220	Sand, gravel and boulders
220	226	Sandy clay
226	238	Sand and gravel 4"
238	300	Hard clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

4558

Report on Well 11E-3 3/4N (#99) 11E-3 3/4N

Wrok started - May 24, 1952
Work Completed - June 24, 1952
Total Depth - 420'
Depth of Casing - 420' - 24"

Log of Well:

0' - 11'	Hard clay
11' - 186'	Sand, gravel and boulders to 10"
186' - 208'	Hard clay
208' - 232'	Sand, gravel
232' - 240'	Hard clay
240' - 250'	Soft silt or muck
250' - 257'	Pea gravel
257' - 261'	Clay
261' - 268'	Pea gravel
268' - 296'	Clay, gravel
296' - 378'	Clay
378' - 398'	Hard or partly cemented clay
398' - 420'	Hard clay

Perforaions:

Perforated from 70' to 400'
P erforations 5/8" x $4\frac{1}{2}$", 14 holes per 12"

Depth at which water was first found - 90'
Standing level before perforating - 70'
Standing level after perforating - 70'

Remarks:

40' of sand and muck after perforating worked in 20' of sand.
Drilled by:
Roscoe Moss Company.
Driller: J. N. Olson
Calif Cable Tool #34.

Cost:

Drilling and casing 24" No. 8 gauge, well 420' - $10,306.60

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 86

Description of Sample 11 E-3 3/4 N (A-1-2) 14aad RID#99

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

MAR 0 - 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.62	22.84	93	20.04
Magnesium	Mg	2.80	13.83	34	12.16
Sodium	Na	12.60	62.33	290	23.00
Potassium	K	0.15	0.74	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.05	0.23	0.50	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		20.21		422.78	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	6.48	34.03	395	61.02
Chloride	Cl	8.91	46.81	316	35.46
Sulfate	SO_4	3.24	17.01	156	48.03
Nitrate	NO_3	0.36	1.87	22	62.01
Fluoride	F	0.05	0.28	1.00	19.00
Phosphate	PO_4	0.00	0.01	0.05	31.66
TOTAL ANIONS		19.04		688.93	

Conductivity	25° C	K = 1920	x 10^{-6}
pH		7.8	
Total Dissolved Solids		mg per liter	1112
Total Hardness		mg per liter	371
Non Carbonate Hardness		mg per liter	0
Alkalinity as $CaCO_3$		mg per liter	482
% Sodium			62.33

1986 RID #99

SAMPLE ID: 11E 3 3/4N LAB NO: 470

	RV-ME	RV-%	MG/L
CALCIUM	4.52	24.38	90.50
MAGNESIUM	2.94	15.87	35.75
SODIUM	10.87	58.67	250.00
POTASSIUM	0.15	0.83	6.03
BORON	0.05	0.25	0.50
TOTAL	18.53	100.00	382.78
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.12	37.70	434.32
CHLORIDE	8.52	45.10	302.00
SULFATE	2.76	14.61	132.48
NITRATE	.44	2.35	27.52
FLUORIDE	0.05	0.24	0.86
PHOSPHATE	0.00	0.00	0.01
TOTAL	18.88	100.00	676.38

CONDUCTIVITY	1700.00
PH	7.60
TDS	1059.16
TH	373.13
NC HARDNESS	0.00
ALKALINITY	529.59
% SODIUM	58.67

1987 RID #99

SAMPLE ID: 11E 3 3/4N LAB NO: 222

	RV-ME	RV-%	MG/L
CALCIUM	4.29	24.99	86.00
MAGNESIUM	2.62	15.23	31.80
SODIUM	10.09	58.76	232.10
POTASSIUM	0.13	0.77	5.15
BORON	0.04	0.25	0.46
TOTAL	17.17	100.00	355.51
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.04	39.77	429.44
CHLORIDE	7.39	41.75	262.00
SULFATE	2.86	16.16	137.34
NITRATE	.38	2.15	23.65
FLUORIDE	0.03	0.15	0.52
PHOSPHATE	0.00	0.01	0.04
TOTAL	17.70	100.00	634.66

CONDUTIVITY	1600.00
PH	7.30
TDS	990.17
TH	345.63
NC HARDNESS	1001.03
ALKALINITY	523.64
% SODIUM	58.76

1988

RID# 99

SAMPLE ID:	11E-33/4N	LAB. NO:	168
	RV-ME	RV-%	MG/L
CALCIUM	4.37	25.67	87.50
MAGNESIUM	2.36	13.90	28.75
SODIUM	10.09	59.33	232.10
POTASSIUM	0.15	0.91	6.00
BORON	0.03	0.19	0.35
TOTAL	17.01	100.00	354.72
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.88	39.37	419.68
CHLORIDE	6.66	38.09	236.00
SULFATE	3.56	20.38	171.00
NITRATE	0.36	2.03	22.04
FLUORIDE	0.02	0.13	0.42
PHOSPHATE	0.00	0.00	0.00
TOTAL	17.47	100.00	535.80
CONDUCTIVITY	1600.00		
PH	7.30		
TDS	990.52		
TH	336.82		
NC HARDNESS	0.00		
ALKALINITY	511.74		
% SODIUM	59.33		

1989 RID #99

SAMPLE ID: 11E-3 3/4N LAB. NO: 216

	RV-ME	RV-%	MG/L
CALCIUM	3.72	23.93	74.50
MAGNESIUM	2.06	13.23	25.00
SODIUM	9.56	61.53	219.90
POTASSIUM	0.16	1.02	6.20
BORON	0.05	0.29	0.49
TOTAL	15.54	100.00	326.09
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.64	42.31	405.04
CHLORIDE	7.11	45.30	252.00
SULFATE	1.81	11.55	87.00
NITRATE	0.08	0.49	4.76
FLUORIDE	0.05	0.34	1.00
PHOSPHATE	0.00	0.01	0.05
TOTAL	15.69	100.00	543.93
CONDUCTIVITY	1.52		
PH	7.30		
TDS	870.02		
TH	288.93		
NC HARDNESS	0.00		
ALKALINITY	493.89		
% SODIUM	61.53		

RID#99

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller W. S. Williams Drilling Co. (Name)
(Address)

4. Location of well: Twp. 1N Rge. 2E Section 13 ¼ SW ¼ NW ¼ (10-acre subdivision)
11 E - 3¾ m.

DESCRIPTION OF WELL

5. Total depth of hole 193 ft.

6. Type of casing 8 ga.

7. Diameter and length of casing 24 in. from 0 to 182, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 70 to 172, from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts ____ Number cuts per foot 14

11. If screen was installed: Length ____ ft. Diam ____ in. Type ____

12. Method of construction ____ drilled, dug, driven, bored, jetted, etc.

13. Date completed June (Month) 37 (Year) Deepened ____ (Month) ____ (Year)

14. Depth to water when drilled 19 ft.
If flowing well, so state.

15. Present depth to water 90 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 140 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____ weir, orifice, current meter, etc.

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: (See 24) Twp. ____ Rge. ____ Section ____ ____ Legal subdivision ____ Acres ____
Twp. ____ Rge. ____ Section ____ ____ Legal subdivision ____ Acres ____

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District
Name of Project

EQUIPMENT DATA

25. Kind of pump ____ turbine, centrifugal, etc.

26. Kind of power Elec. electric, natural gas, etc.

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)13 bc
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	12	Dirt
12	158	Boulders & gravel
158	169	Fine sand
169	176	Boulders & gravel
176	193	Clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

FORM W-6 1M,3-49 JAHN-TYLER (A-1-2)14 aad Appl. No. S-35 Permit No. S-33

RID #99

Land Department
Ground Water Division
State of Arizona

11E-3 3/4 N

REPORT OF WELL DRILLED IN CRITICAL AREA

Report of Well Drilled in Critical Area is required to be made and filed with the State Land Commissioner upon completion of the construction of such well, pursuant to Section 10, Chapter 5, House Bill No. 2, Eighteenth Legislature, Sixth Special Session, 1948.

1. Owner Roosevelt Irrigation District (Name) Buckeye, Ariz. (Address)
2. Lessee or Operator _____ (Name) _____ (Address)
3. Driller Roscoe Moss Company (Name) Los Angeles, Calif. (Address)
4. Location of Well: Twp. 1 N. Rge. 2 E. Sec. 14 Legal Subdivision SE ¼ NE ¼ NE ¼ (10 acre subdivision)

   It is _____ (if less than ¼ mile) yards _____ (direction) from the nearest irrigation well. 11E-3 3/4N
5. Purpose of use Irrigation
6. Place of use: Twp. _____ Rge. _____ Section(s) _____, _____ (Legal Subdivision) Acres _____
7. If well is part of Irrigation District, Association, or Company, omit 6 and give name of project: District lands

DESCRIPTION OF WELL

8. Total depth of hole 420 ft. 9. Type of Casing Hard red steel
10. Diameter and length of casing: 24 in. from 0 ft. to 420 ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft.
11. Method of sealing at reduction points _____
12. Perforated from 70 ft. to 400 ft; from _____ ft. to _____ ft; from _____ ft. to _____ ft.
13. Size of cuts 5/8 x 4-1/2 Number of cuts per foot 14 per 12 inches
14. If screen was installed: Length _____ ft. Diameter _____ in. Type _____
15. Method of drilling Calif Type Cable Tool (drilled, dug, driven, bored, etc.)
16. Date completed June 24, 1952 (Month, Year) 17. Depth to water 90 ft. (if flowing well, so state)
18. Describe points from which depth measurements were made Ground Surface

    Sea-level elevation _____ (if available)
19. Method of flow regulation if flowing well _____

REPORT OF PUMP INSTALLATION AND TEST

20. Tested well capacity _____ (gallons per minute) Method of measurement _____ (weir, orifice, meter, etc.)
21. Depth immediately prior to capacity test, from land surface to static water level _____ ft.
22. Non-flowing well: Drawdown _____ ft. measured after _____ (at least 4) hours of continuous operation, and while pump is still operating.
23. Flowing well: Shut-in pressure _____ ft. above the land surface, or _____ pounds per square inch at the land surface.
24. Kind of Pump _____ (turbine, centrifugal, etc.)
25. Kind of Power _____ (electric, natural gas, etc.)
26. Horsepower Rating of Motor _____
27. Permittee _____ (Signature)

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-15-52 by lec
Filed 7-15-52 by lec
File No. (A-1-2)14 aad
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water-bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (feet)	TO (feet)	DESCRIPTION OF FORMATION MATERIAL
0	11	Hard clay
11	186	Sand, gravel and boulders to 10"
186	208	Hard clay
208	232	Sand, gravel
232	240	Hard clay
240	250	Soft silt or muck
250	257	Pea gravel
257	261	Clay
261	268	Pea gravel
268	296	Clay, gravel
296	378	Clay
378	398	Hard or partly cemented clay
398	420	Hard clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, Calif
Address

Date July 10, 1952

NOTE: Report and Log are to be completed by the permittee and driller, and mailed by the permittee to the Ground Water Division of the State Land Department immediately upon completion of the well and pumping test.

WELL DATA

October 10, 1940

(#100)

Report on Well 11E - 4¼N - Located 2 miles west of Phoenix, Arizona, near Tolleson

Started Work September 19, 1940.
Completed Work October 10, 1940
Depth of Hole - 302 Ft.
Depth of Casing - 302 Ft.
24 Inch, 8 Gauge casing used and left in well
Size of Shoe - 26½"

Log of Well

0	-	6'	Soil
6	-	10	Caliche
10	-	12	Coarse sand
12	-	20	Coarse sand and gravel
20	-	40	Sand, gravel, boulders to 10"
40	-	120	Sand, gravel, boulders to 12"
120	-	204	Sand, gravel some 10" boulders
204	-	210	Coarse sand
210	-	230	Sand, gravel to 6"-cemented
230	-	240	Clay
240	-	250	Cemented sand
250	-	294	Hard clay
294	-	300	Sand, gravel very loose
300	-	302	Hard clay

Perforations

55 to 290 Ft. - 12 holes per 12 inches
Mills knife used
Perforations - 3/4 inch Diam. - 5" Length
Depth at which water was first found - 60 Ft.
Standing level before and after perforating - 56 Ft.

Well is straight.

Remarks

Driller by - Roscoe Moss Co. 4360 Worth St., Los Angeles, Calif.
Driller - J. W. Thomas
Rig Used - No. 27

$5.35 for casing - $3.00 for drilling

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 148

Description of Sample WELL 1/E - 4 1/4 N (A-1-2) 12ccb? MAD A1 RID#100 TAGE

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By MAR 01 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.99	26.52	100.00	20.04
Magnesium	Mg	2.94	15.73	36.00	12.16
Sodium	Na	10.61	56.38	244.00	23.00
Potassium	K	0.22	1.17	8.59	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.04	0.20	0.41	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		18.82	100.00	389.00	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	5.92	32.46	361.12	61.02
Chloride	Cl	9.48	51.94	336.00	35.46
Sulfate	SO_4	2.14	11.84	103.68	48.03
Nitrate	NO_3	0.64	3.51	39.72	62.01
Fluoride	F	0.04	0.21	0.72	19.00
Phosphate	PO_4	0.00	0.02	0.13	31.66
TOTAL ANIONS		18.23	100.00	457.77	

Conductivity 25° C K = 1850 x 10^{-6}

pH 7.5

Total Dissolved Solids mg per liter 1047

Total Hardness mg per liter 398

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 440

% Sodium 56.38

1986 RID # 100

SAMPLE ID: 11E 4 1/4N LAB NO: 471

	RV-ME	RV-%	MG/L
CALCIUM	4.52	25.13	90.50
MAGNESIUM	2.94	16.36	35.75
SODIUM	10.30	57.34	237.00
POTASSIUM	0.18	0.98	6.90
BORON	0.03	0.18	0.36
TOTAL	17.97	100.00	370.51
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.56	35.51	400.16
CHLORIDE	9.08	49.17	322.00
SULFATE	2.22	12.01	106.56
NITRATE	.56	3.05	34.98
FLUORIDE	0.05	0.25	0.86
PHOSPHATE	0.00	0.01	0.03
TOTAL	18.47	100.00	661.15

CONDUCTIVITY	1680.00
PH	7.50
TDS	1031.65
TH	373.13
NC HARDNESS	0.00
ALKALINITY	487.94
% SODIUM	57.34

1987 RID # 100

SAMPLE ID: 11E 4 1/4N LAB NO: 250

	RV-ME	RV-%	MG/L
CALCIUM	4.79	26.99	96.00
MAGNESIUM	2.69	15.15	32.70
SODIUM	10.09	56.86	232.10
POTASSIUM	0.14	0.79	5.50
BORON	0.04	0.20	0.38
TOTAL	17.75	100.00	366.68
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.64	36.06	405.04
CHLORIDE	9.31	50.56	330.00
SULFATE	1.86	10.10	89.32
NITRATE	.59	3.21	36.66
FLUORIDE	0.01	0.05	0.17
PHOSPHATE	0.00	0.01	0.05
TOTAL	18.41	100.00	655.32

CONDUTIVITY	1800.00
PH	7.40
TDS	1022.00
TH	374.31
NC HARDNESS	1001.03
ALKALINITY	493.89
% SODIUM	56.86

1988 RID# 100

SAMPLE ID: 115-41/4N LAB. NO: 166

	RV-ME	RV-%	MG/L
CALCIUM	5.61	27.45	112.50
MAGNESIUM	3.35	16.38	40.75
SODIUM	11.29	55.18	259.60
POTASSIUM	0.19	0.96	6.88
BORON	0.03	0.13	0.28
TOTAL	20.45	100.00	420.01
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.44	36.68	453.84
CHLORIDE	9.87	48.67	350.00
SULFATE	2.25	11.07	108.00
NITRATE	0.70	3.43	43.19
FLUORIDE	0.03	0.13	0.49
PHOSPHATE	0.00	0.00	0.01
TOTAL	20.29	100.00	954.80
CONDUCTIVITY	1600.00		
PH	7.90		
TDS	1144.81		
TH	445.64		
NC HARDNESS	0.00		
ALKALINITY	551.40		
% SODIUM	55.18		

1989 RID #100

SAMPLE ID: 11E-4 1/4N LAB. NO: 217

	RV-ME	RV-%	MG/L
CALCIUM	4.67	25.74	93.60
MAGNESIUM	3.04	16.77	37.00
SODIUM	10.19	56.16	234.40
POTASSIUM	0.20	1.09	7.70
BORON	0.05	0.25	0.49
TOTAL	18.15	100.00	373.19
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.12	38.17	434.32
CHLORIDE	9.48	50.82	336.00
SULFATE	1.87	10.05	90.00
NITRATE	0.13	0.69	7.97
FLUORIDE	0.05	0.27	0.95
PHOSPHATE	0.00	0.01	0.04
TOTAL	18.65	100.00	648.48
CONDUCTIVITY	1.80		
PH	7.40		
TDS	1021.67		
TH	386.01		
NC HARDNESS	0.00		
ALKALINITY	529.59		
% SODIUM	56.16		

RID#100

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner: Roosevelt Irrigation District (Name)
   Buckeye Arizona (Address)
2. Lessee or Operator: Operator (Name)
   (Address)
3. Driller: J. W. Thomas (Name)
   Roscoe Thomas Co. (Address)
4. Location of well: Twp. 1N Rge. 2E Section 12 NW 1/4 SW 1/4 SW 1/4 (10-acre subdivision)
   11E-4E-3N

DESCRIPTION OF WELL

5. Total depth of hole 302 ft.
6. Type of casing 8 ga.
7. Diameter and length of casing 24 in. from 0 to 302, in. from to , in. from to
8. Method of sealing at reduction points
9. Perforated from 55 to 290, from to , from to , from to
10. Size of cuts 3/4" X 5" Number cuts per foot 12
11. If screen was installed: Length ft. Diam in. Type
12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)
13. Date completed Oct (Month) 1940 (Year) Deepened (Month) (Year)
14. Depth to water when drilled 56 ft. (If flowing well, so state.)
15. Present depth to water 73.0 ft. Date of measurement 5-1-46 (If flowing well, so state.)
16. Describe point from which depth measurements were made, and give sea-level elevation if available
17. If flowing well, state method of flow regulation

DISCHARGE DATA

18. Well discharge 10.0 gal. per min. or cu. ft. per sec. or miner's inches.
19. Method of discharge measurement (weir, orifice, current meter, etc.)
20. Drawdown ft.
21. Annual discharge in acre-feet, or number of hours pumped: 1944 a.f. or hrs. 1945 a.f. or hrs.
22. Purpose of use
23. Place of use: (See 24) Twp. Rge. Section Legal subdivision Acres
    Twp. Rge. Section Legal subdivision Acres
24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
    Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump turbine, centrifugal, etc.
26. Kind of power Elec. electric, natural gas, etc.
27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)12 ccb
Cross-referenced (Name) by
Cross-referenced (Basin) by
Cross-referenced by

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	6	Soil
6	10	Caliche
10	12	Coarse sand
12-	20	Coarse sand and gravel
20	40	Sand, gravel, boulders to 10"
40	120	Sand, gravel boulders to 12"
120	204	Sand, gravel some 10" boulders
204	210	Coarse sand
210	230	Sand, gravel to 6"-cemented
230	240	Clay
240	250	Cemented sand
250	294	Hard clay
294	300	Sand, gravel very loose
300	302	Hard clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

Redrill
April 9, 1969

ROOSEVELT IRRIGATION DISTRICT

4560

Report on Well 11-1/2E-3N (#101)

Work started - December 18, 1968
Work completed - February 28, 1969
Depth of Hole - 400 feet
Depth of Casing - 400 feet 8ga.

Log of Well

0 - 223 sand, gravel & boulders
223 - 226 sticky clay
226 - 232 sand, gravel & boulders
232 - 275 clay and gravel
275 - 308 hard clay
308 - 330 sticky clay
330 - 341 sandy clay
341 - 347 hard clay
347 - 358 sticky clay
358 - 374 hard clay
374 - 384 sandy clay
384 - 400 hard clay

Perforations

Perforated 110 feet to 390 feet
26 holes per 12 inches
Moss Hydraulic perforator used
Diameter of perforations 1/4"
length of perforations 2-1/2"

Water first found 66'
standing level after perforating 52'

Remarks

Drilled by A.M. Bright -Roscoe Moss Co. & Weber Drilling Co.

Cost $15,420.00 for drilling & casing

Invoice C1960 dated 3-26-69

65 hr. swabbing @ $25.00 per hr.	1,625.00
18'-28"x5/16 conductor pipe @ $5.00 per ft.	90.00
Drill, case & perforate to 400 ft.	13,705.00
	$15,420.00

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 149

MAR 01 1985

Description of Sample WELL 11½ E-3N (A-1-2)13cdd RID# 101

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.74	23.54	95.00	20.04
Magnesium	Mg	3.04	15.11	37.00	12.16
Sodium	Na	12.08	59.98	277.80	23.00
Potassium	K	0.22	1.09	8.59	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.04	0.28	0.61	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		20.14	100.00	419.00	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	6.54	33.52	400.14	61.02
Chloride	Cl	10.15	51.89	360.00	35.46
Sulfate	SO_4	2.34	11.95	112.32	48.03
Nitrate	NO_3	0.47	2.40	29.14	62.01
Fluoride	F	0.04	0.21	0.78	19.00
Phosphate	PO_4	0.00	0.02	0.14	31.66
TOTAL ANIONS		19.54	100.00	699.12	

Conductivity 25° C K = 1820 x 10^{-6}

pH 7.5

Total Dissolved Solids mg per liter 1118

Total Hardness mg per liter 390

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 488

% Sodium 59.98

1986 RID # 101

SAMPLE ID: 11 1/2E 3N LAB NO: 473

	RV-ME	RV-%	MG/L
CALCIUM	4.09	22.87	82.00
MAGNESIUM	2.71	15.16	33.00
SODIUM	10.87	60.74	250.00
POTASSIUM	0.15	0.86	6.03
BORON	0.07	0.37	0.71
TOTAL	17.90	100.00	371.74

CARBONATE	0.00	0.00	0.00
BICARBONATE	6.48	35.29	395.28
CHLORIDE	9.53	51.93	338.00
SULFATE	1.98	10.78	95.04
NITRATE	.32	1.75	19.89
FLUORIDE	0.05	0.25	0.86
PHOSPHATE	0.00	0.00	0.03
TOTAL	18.36	100.00	648.13

CONDUCTIVITY	1700.00
PH	7.50
TDS	1019.88
TH	310.58
NC HARDNESS	0.00
ALKALINITY	481.99
% SODIUM	60.74

1987 RID # 101

SAMPLE ID: 11 1/2E 3N LAB NO: 261

	RV-ME	RV-%	MG/L
CALCIUM	3.59	20.61	72.00
MAGNESIUM	4.36	25.00	53.00
SODIUM	9.32	53.44	214.30
POTASSIUM	0.09	0.54	3.68
BORON	0.07	0.41	0.77
TOTAL	17.43	100.00	343.75
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.16	35.80	375.76
CHLORIDE	8.86	51.48	314.00
SULFATE	1.92	11.18	92.34
NITRATE	.26	1.49	15.89
FLUORIDE	0.01	0.05	0.17
PHOSPHATE	0.00	0.01	0.04
TOTAL	17.20	100.00	607.16
CONDUTIVITY	1700.00		
PH	7.30		
TDS	950.91		
TH	397.93		
NC HARDNESS	1001.03		
ALKALINITY	458.19		
% SODIUM	53.44		

1988 RID# 101

SAMPLE ID: 111/2E-3N LAB. NO: 167

	RV-ME	RV-%	MG/L
CALCIUM	4.15	23.95	83.25
MAGNESIUM	2.36	13.63	28.75
SODIUM	10.61	61.16	244.00
POTASSIUM	0.16	0.95	6.45
BORON	0.05	0.30	0.57
TOTAL	17.34	100.00	363.02
CARBONATE	0.00	0.00	2.00
BICARBONATE	6.12	35.92	373.32
CHLORIDE	8.46	49.67	300.00
SULFATE	2.06	12.10	99.00
NITRATE	0.37	2.14	22.65
FLUORIDE	0.03	0.17	0.55
PHOSPHATE	0.00	0.00	0.02
TOTAL	17.03	100.03	805.74
CONDUCTIVITY	1600.00		
PH	7.42		
TDS	968.76		
TH	326.21		
NC HARDNESS	0.00		
ALKALINITY	455.21		
% SODIUM	61.16		

1989 RID# 101

SAMPLE ID: 11 1/2E-3N LAB. NO: 213

	RV-ME	RV-%	MG/L
CALCIUM	3.52	21.71	70.50
MAGNESIUM	2.22	13.71	27.00
SODIUM	10.23	63.12	235.20
POTASSIUM	0.18	1.09	6.90
BORON	0.06	0.37	0.65
TOTAL	16.20	100.00	340.25
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.60	34.22	341.60
CHLORIDE	8.74	53.44	310.00
SULFATE	1.81	11.07	87.00
NITRATE	0.06	0.36	3.65
FLUORIDE	0.15	0.90	2.81
PHOSPHATE	0.00	0.01	0.04
TOTAL	16.36	100.00	571.43
CONDUCTIVITY	1.65		
PH	7.40		
TDS	911.68		
TH	287.17		
NC HARDNESS	0.00		
ALKALINITY	416.53		
% SODIUM	63.12		

RID# 101

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller J. W. Thomas (Name)
Rucker Mosi Co (Address)

4. Location of well: Twp. 1N Rge. 2E Section 13 SE ¼ SE ¼ SW ¼ (10-acre subdivision)
11½ E - 3N

DESCRIPTION OF WELL

5. Total depth of hole 300 ft.

6. Type of casing 8 gal.

7. Diameter and length of casing 24 in. from 0 to 300 in. from to , in. from to

8. Method of sealing at reduction points

9. Perforated from 50 to 286, from to , from to , from to

10. Size of cuts 3/4" x 5" Number cuts per foot 12

11. If screen was installed: Length ft. Diam in. Type

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed Nov. 1940 (Month Year) Deepened (Month Year)

14. Depth to water when drilled 34 ft.
If flowing well, so state.

15. Present depth to water 68 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available

17. If flowing well, state method of flow regulation

DISCHARGE DATA

18. Well discharge 15.0 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement weir, orifice, current meter, etc.

20. Drawdown ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 a.f. or hrs. 1945 a.f. or hrs.

22. Purpose of use

23. Place of use: Twp. Rge. Section Legal subdivision Acres
(See 24)
Twp. Rge. Section Legal subdivision Acres

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump turbine, centrifugal, etc.

26. Kind of power Elec. electric, natural gas, etc.

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)13 cdd
Cross-referenced (Name) by
Cross-referenced (Basin) by
Cross-referenced by

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	9	Soil
9	150	Coarse gravel boulders to 10"
150	188	Cemented gravel and sand
188	196	Coarse sand little 3/4" gravel
196	214	Sand and gravel to 6"
214	216	Hard clay
216	222	Coarse sand
222	234	Fine sand & gravel clay streaks
234	244	Clay
244	254	Clay-sand and gravel to 3/4"
254	275	Hard clay
275	276	Fine gravel
276	284	Clay
284	285	Gravel and sand to 2"
285	300	Hard clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

Application No. S-847 File No. A(1-2)13 cdd Permit No. S-830

Filed 10-4-68
(Applicant must not fill in the above blanks)

This application shall be submitted in duplicate to the State Land Department, Water Division, Phoenix, Arizona, in accordance with the provisions of Section 7, Chapter 5, House Bill No. 2, Session Laws of 1948, Eighteenth Legislature, Sixth Special Session. (THE LANDOWNER OR LESSEE SHALL NOT MAKE ANY CHANGE OF LOCATION AFFECTING THE PROPOSED NEW WELL UNLESS A NEW APPLICATION IS MADE FOR AMENDMENT TO THIS, THE ORIGINAL APPLICATION).

APPLICATION FOR A PERMIT TO DRILL AN IRRIGATION WELL IN A CRITICAL AREA WITHIN THE STATE OF ARIZONA

OK 10-4-68 JC.R

I, We, ROOSEVELT IRRIGATION DISTRICT
(Applicant's name as inserted here must agree with signature)
of P. O. Box 95, Buckeye, Arizona 85326, County of Maricopa, State of Arizona, do hereby make application for a permit to drill the following described well in the Salt River Critical Area.

1. **Location and Description of Proposed Well.**

Twp. One North, Rge. Two East, Sec. 13,
SE ¼ SE ¼ SW ¼
(10-acre subdivision)

Depth 400 ft. Diameter 24" in. Type of Casing 2 Ply 8 Gauge Steel

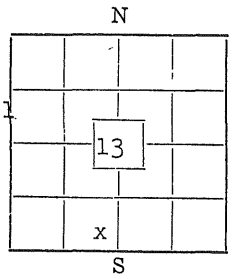
Driving Unit Electric Horsepower 300

Pump Capacity 5,500 (G. P. M.) Proposed withdrawal 2,640 (A. F. per year)

Type of Construction—Cable Tool ☒ Rotary ☐

Name and address of Driller To be let out to bid = information to be provided later.

Location of Proposed Well



(Indicate location of proposed well and place number of section in square).

2. **Land to be irrigated:** ROOSEVELT IRRIGATION DISTRICT
Twp. ____, Rge. ____, Sec. ____, ____ (Legal Subdivision) 32,500.00 (Acres)
Twp. ____, Rge. ____, Sec. ____, ____ (Legal Subdivision) ____ (Acres)

3. Above described land is now irrigated as follows: Pumps = main canal and lateral

4. Record of cultivation and irrigation of land described herein, from year 1943 to date.
1928 to present

5. **Location and Description of Existing Wells.**
Twp. One North, Rge. Two East, Sec. 13, SE ¼ SE ¼ SW ¼ (Legal Subdivision)
Depth 300 ft. Diameter 24" in. Driving Unit Electric, H. P. rating of motor 300
Date drilled November 1, 1940 Pump discharge when drilled 5,600 G. P. M.
Present discharge 5,500 G. P. M. Static water level (below ground surface) 70' ft.
Depth of pump setting 170' ft. Pumping lift 145' ft.
(If more than one well for same land, use spaces below).
Twp. ____, Rge. ____, Sec. ____, ____ ¼ ____ ¼ ____ ¼
Depth ____ ft. Diameter ____ in. Driving Unit ____, H. P. rating of motor ____
Date drilled ____ Pump discharge when drilled ____ G. P. M.
Present discharge ____ G. P. M., Static water level (below ground surface) ____ ft.
Depth of pump setting ____ ft. Pump lift ____ ft.

6. Reason new well required To replace the existing well designated as 11½E-3N (casing has shifted, causing pump to come apart while running)

7. It is understood that the permit, if granted, will be in accordance with the Ground Water Code of 1948, and the Permittee will be bound by the provisions of such law, and the provisions of the permit issued herefor.

CERTIFICATE

8. I, (we) ROOSEVELT IRRIGATION DISTRICT, the applicant named in the above and foregoing application, do hereby certify under the penalty of perjury, that the information contained and statements therein made are, to the best of my knowledge and belief, true, correct, and complete.

Dated this 20th day of September, 1968.

G. T. Pemberton
G. T. Pemberton, Applicant
Superintendent

Fee of $3.00 must be paid with filing of application

(old form)

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REPORT OF WELL DRILLER

This report should be prepared by the driller in all detail and filed with the State Land Commissioner following completion of the well.

1. OWNER Roosevelt Irrigation District
Name
P. O. Box 95, Buckeye, Arizona 85326
Address

2. Lessee or Operator
Name
Address

3. DRILLER ROSCOE MOSS-WEBER DRILLING, INC.
Name
P.O. BOX 5354 Phoenix, Arizona
Address

4. Location of well: Twp. 1N Rge. 2E Section 13 SE ¼ SE ¼ SW ¼
10-acre subdivision

5. Intention to Drill File No. A(1-2) 13 cdd. Permit No. ~~S-825~~ S 830

DESCRIPTION OF WELL

6. Total depth of hole 401 ft.

7. Type of casing Double 8 guage stovepipe

8. Diameter and length of casing 24 in. from 0 to 401, in. from to, in. from to

9. Method of sealing at reduction points

10. Perforated from 110 to 390, from to, from to, from to

11. Size of cuts 1/4 x 21/2 Number of cuts per foot 32

12. If screen was installed: Length ft. Diam. in. Type

13. Method of construction Cable tool
drilled, dug, driven, bored, jetted, etc.

14. Date started 12 - 18 - 68
Month Day Year

15. Date completed 2 - 28 - 69
Month Day Year

16. Depth of water 52 ft.
If flowing well, so state.

17. Describe point from which depth measurements were made, and give sea-level elevation if available surface

18. If flowing well, state method of flow regulation

19. REMARKS:

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 3-31-69 by
Filed 3-31-69 by
File No. A(1-2) ~~14 cdb~~ 13 cdd.

(Well Log to Appear on Reverse Side)

WD FORM G-301
REV. 4-27-53

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	223	Sand Gravel and Boulders
223	367	Sticky and hard clay with streaks of Sand,Gravel, Bou
367	401	Hard Clay with some sandy streaks

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Duane T. McCain
Name

P.O. Box 535X
Address

Date MARCH 25 1969

Duplicate ?

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REPORT OF WELL DRILLER

This report should be prepared by the driller in all detail and filed with the State Land Commissioner following completion of the well.

1. OWNER Roosevelt Irrigation District (Name)
Higley, Arizona. (Address)

2. Lessee or Operator ..... (Name)
..... (Address)

3. DRILLER Roscoe Moss Company & Weber Well Drilling (Name)
P. O.Box 5354, Phoenix, Arizona. (Address)

4. Location of well: Twp. 1-N Rge. 2-E Section 13 SE ¼ SE ¼ SW ¼ (10-acre subdivision)

5. Intention to Drill File No. ..... Permit No. 5.520

DESCRIPTION OF WELL

6. Total depth of hole 400 ft.

7. Type of casing Double Well Casing

8. Diameter and length of casing 28 in. from 0 to 18, 24 in. from 0 to 400, ... in. from ..... to .....

9. Method of sealing at reduction points .....

10. Perforated from 110 to 390, from ..... to ....., from ..... to ....., from ..... to .....

11. Size of cuts 1/4 x 2-1/2 Number of cuts per foot 26 holes per 12"

12. If screen was installed: Length ..... ft. Diam. ..... in. Type .....

13. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

14. Date started December 18, 1968 (Month Day Year)

15. Date completed February 28, 1969 (Month Day Year)

16. Depth of water 66 ft. (If flowing well, so state.)

17. Describe point from which depth measurements were made, and give sea-level elevation if available
Ground Surface.

18. If flowing well, state method of flow regulation .....

19. REMARKS: .....

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 4-7-69 by L.
Filed 4-7-69 by L.
File No. A(1-2)13 add.

(Well Log to Appear on Reverse Side)

WD FORM G-301
REV. 4-27-53

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	223	Sand, gravel and boulders
223	226	Sticky clay
226	232	Sand, gravel and boulders
232	275	Clay and gravel
275	308	Hard clay
308	330	Sticky clay
330	341	Sandy clay
341	347	Hard clay
347	358	Sticky clay
358	374	Hard clay
374	384	Sandy clay
384	400	Hard clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

ROSCOE MOSS & WEBER WELL DRILLING

Driller [signature] Name Secretary

4360 Worth Street
Address

Los Angeles, California.

Date March 31, 1969

2518

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

Report on Well 11-3/4-E - 3-3/4-N (#102)

Work Started	-	July 2, 1952
Work Completed	-	August 4, 1952
Total Depth	-	440'
Depth of Casing	-	428' 24" 8 guage

Log of Well

0' - 11'	Soil
11' - 224'	Boulders
224 - 380'	Clay and gravel
380' - 440'	Clay

Perforations

Perforated from 85' to 414'
Perforations 5/8" x 5-1/2" - 12 holes per 12"

Depth at which water first found 74'
Standing level before perforating 74'
Standing level after perforating 74'

Drilled by Roscoe Moss Company
Driller: J. N. Lard
Cable Tool #33

Cost

Drilling and Casing $10,622.04

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 151

Description of Sample WELL 11 3/4 E-3 3/4N (A-1-2) 13abd MAR 01 1985 RID# 102

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.24	23.69	65.00	20.04
Magnesium	Mg	1.91	13.96	23.25	12.16
Sodium	Na	8.28	60.48	190.50	23.00
Potassium	K	0.22	1.60	8.59	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.04	0.27	0.59	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		13.69	100.00	287.73	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	5.44	32.24	331.84	61.02
Chloride	Cl	6.32	44.42	224.00	35.46
Sulfate	SO_4	2.10	14.74	100.80	48.03
Nitrate	NO_3	0.33	2.30	20.29	62.01
Fluoride	F	0.04	0.25	0.67	19.00
Phosphate	PO_4	0.00	0.03	0.16	31.66
TOTAL ANIONS		14.22	100.00	509.04	

Conductivity 25° C K = 1420 x 10^{-6}

pH 7.5

Total Dissolved Solids mg per liter 797

Total Hardness mg per liter 258

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 405

% Sodium 60.48

1986 RID# 102

SAMPLE ID: 11 3/4E 3 3/4N LAB NO: 475

	RV-ME	RV-%	MG/L
CALCIUM	3.01	21.20	60.25
MAGNESIUM	1.99	14.06	24.25
SODIUM	9.01	63.54	207.30
POTASSIUM	0.13	0.93	5.17
BORON	0.04	0.27	0.41
TOTAL	14.18	100.00	297.38
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.00	42.38	366.00
CHLORIDE	6.26	44.24	222.00
SULFATE	1.56	11.02	74.88
NITRATE	.29	2.03	17.86
FLUORIDE	0.05	0.32	0.86
PHOSPHATE	0.00	0.01	0.03
TOTAL	14.15	100.00	495.55

CONDUCTIVITY	1300.00
PH	7.50
TDS	792.93
TH	250.26
NC HARDNESS	0.00
ALKALINITY	446.29
% SODIUM	63.54

1987 RID# 102

SAMPLE ID: 11 3/4E 3 3/4N LAB NO: 218

	RV-ME	RV-%	MG/L
CALCIUM	3.19	23.06	64.00
MAGNESIUM	1.98	14.31	24.10
SODIUM	8.54	61.67	196.40
POTASSIUM	0.09	0.68	3.68
BORON	0.04	0.28	0.42
TOTAL	13.85	100.00	288.60
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.76	41.30	351.36
CHLORIDE	6.09	43.69	216.00
SULFATE	1.80	12.89	86.30
NITRATE	.27	1.91	16.50
FLUORIDE	0.03	0.20	0.52
PHOSPHATE	0.00	0.01	0.03
TOTAL	13.94	100.00	492.08

CONDUTIVITY	1300.00
PH	7.40
TDS	780.68
TH	259.00
NC HARDNESS	1001.03
ALKALINITY	428.44
% SODIUM	61.67

1988 RID #102

SAMPLE ID: 11S/4E-23/4N LAB. NO: 169

	RV-ME	RV-%	MG/L
CALCIUM	3.53	24.27	70.75
MAGNESIUM	2.06	14.14	25.00
SODIUM	8.80	60.50	202.40
POTASSIUM	0.13	0.91	5.16
BORON	0.03	0.18	0.29
TOTAL	14.54	100.00	303.60
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.72	38.93	348.92
CHLORIDE	6.88	46.85	244.00
SULFATE	1.75	11.9[illegible]	84.00
NITRATE	0.31	2.14	19.49
FLUORIDE	0.03	0.17	0.48
PHOSPHATE	0.00	0.01	0.02
TOTAL	14.69	100.00	5[illegible]9.53
CONDUCTIVITY	1400.00		
PH	7.40		
TDS	823.12		
TH	279.54		
NC HARDNESS	0.00		
ALKALINITY	425.46		
% SODIUM	60.50		

1989 RID # 102

SAMPLE ID: 11 3/4E-3 3/4 N LAB. NO: 215

	RV-ME	RV-%	MG/L
CALCIUM	3.33	23.43	66.80
MAGNESIUM	1.89	13.29	23.00
SODIUM	8.81	61.91	202.60
POTASSIUM	0.14	1.01	5.60
BORON	0.05	0.36	0.55
TOTAL	14.23	100.00	298.55
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.76	41.29	351.36
CHLORIDE	6.71	48.13	238.00
SULFATE	1.37	9.85	66.00
NITRATE	0.06	0.40	3.43
FLUORIDE	0.04	0.32	0.84
PHOSPHATE	0.00	0.01	0.05
TOTAL	13.95	100.00	481.05
CONDUCTIVITY	1.40		
PH	7.40		
TDS	779.60		
TH	261.47		
NC HARDNESS	0.00		
ALKALINITY	428.44		
% SODIUM	61.91		

R.D #102 (1.

FORM W-2 10-45 JAHN-TYLER

Withdrawal by Permit 2-32

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller Williams (Name)
(Address)

4. Location of well: Twp. 1N Rge. 2E Section 13 SE ¼ NW ¼ NE ¼ (10-acre subdivision)
11¾ E - 3¾ N

DESCRIPTION OF WELL

5. Total depth of hole 201½ ft.

6. Type of casing

7. Diameter and length of casing 24 in. from 0 to 201½, in. from to, in. from to

8. Method of sealing at reduction points

9. Perforated from 60' to 192', from to, from to, from to

10. Size of cuts Number cuts per foot 14

11. If screen was installed: Length ft. Diam in. Type

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed 4-14-35 (Month Year) Deepened (Month Year)

14. Depth to water when drilled 14½ ft. If flowing well, so state.

15. Present depth to water 77.0 ft. Date of measurement If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available

17. If flowing well, state method of flow regulation

DISCHARGE DATA

18. Well discharge 13.75 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement weir, orifice, current meter, etc.

20. Drawdown ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 a.f. or hrs. 1945 a.f. or hrs.

22. Purpose of use

23. Place of use: (See 24) Twp. Rge. Section Legal subdivision Acres
Twp. Rge. Section Legal subdivision Acres

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump turbine, centrifugal, etc.

26. Kind of power Elec electric, natural gas, etc.

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)13 abd
Cross-referenced (Name) by
Cross-referenced (Basin) by
Cross-referenced by

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	6	Adobe
6	17	Sandy clay
17	35	Gravel, boulders, clay
35	85	Large Boulders
85	93	Gravel
93	164	Gravel & boulders, very little water
164	179	Caliche and gravel
179	191	Sand
191	201½	Very hard caliche and boulders

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

RID #102 (2)

FORM W-9 1M 8-49 JAHN-TYLER (A-1-2)13 abd Appl. No. S-34 Permit No. S-32

Land Department
Ground Water Division
State of Arizona

11¾ E - 3¾ N

REPORT OF WELL DRILLED IN CRITICAL AREA

Report of Well Drilled in Critical Area is required to be made and filed with the State Land Commissioner upon completion of the construction of such well, pursuant to Section 10, Chapter 5, House Bill No. 2, Eighteenth Legislature, Sixth Special Session, 1948.

1. Owner Roosevelt Irrigation District (Name) Buckeye, Arizona (Address)
2. Lessee or Operator _____ (Name) _____ (Address)
3. Driller Roscoe Loss Company (Name) Los Angeles, Calif. (Address)
4. Location of Well: Twp. 1 N. Rge. 2 E. Sec. 13 Legal Subdivision SE ¼ NW ¼ NE ¼ (10 acre subdivision)

   It is _____ (if less than ¼ mile) yards _____ (direction) from the nearest irrigation well. 11 3/4E-3 3/4N
5. Purpose of use Irrigation
6. Place of use: Twp. _____ Rge. _____ Section(s) _____, _____ (Legal Subdivision) Acres _____
7. If well is part of Irrigation District, Association, or Company, omit 6 and give name of project: District lands

DESCRIPTION OF WELL

8. Total depth of hole 440 ft. 9. Type of Casing Hard red steel
10. Diameter and length of casing: 24 in. from 0 ft. to 428 ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft.
11. Method of sealing at reduction points _____
12. Perforated from 85 ft. to 414 ft; from _____ ft. to _____ ft; from _____ ft. to _____ ft.
13. Size of cuts 5/8 x 5-1/2 Number of cuts per foot 12 per 12 inches
14. If screen was installed: Length _____ ft. Diameter _____ in. Type _____
15. Method of drilling California Type Cable Tool (drilled, dug, driven, bored, etc.)
16. Date completed August 4, 1952 (Month, Year) 17. Depth to water 74 ft. (if flowing well, so state)
18. Describe points from which depth measurements were made Ground Surface

    Sea-level elevation _____ (if available)
19. Method of flow regulation if flowing well _____

REPORT OF PUMP INSTALLATION AND TEST

20. Tested well capacity _____ (gallons per minute) Method of measurement _____ (weir, orifice, meter, etc.)
21. Depth immediately prior to capacity test, from land surface to static water level _____ ft.
22. Non-flowing well: Drawdown _____ ft. measured after _____ (at least 4) hours of continuous operation, and while pump is still operating.
23. Flowing well: Shut-in pressure _____ ft. above the land surface, or _____ pounds per square inch at the land surface.
24. Kind of Pump _____ (turbine, centrifugal, etc.)
25. Kind of Power _____ (electric, natural gas, etc.)
26. Horsepower Rating of Motor _____
27. Permittee _____ (Signature)

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 9-15-52 by lec
Filed 9-15-52 by lec
File No. (A-1-2)13 abd
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water-bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (feet)	TO (feet)	DESCRIPTION OF FORMATION MATERIAL
0	11	Soil
11	224	Boulders
224	380	Clay and gravel
380	440	Clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, Calif
Address

Date September 10, 1952

NOTE: Report and Log are to be completed by the permittee and driller, and mailed by the permittee to the Ground Water Division of the State Land Department immediately upon completion of the well and pumping test.

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

Report on Well #12-E-3-1/4-N (#103)

4562

Work Started - July 2, 1952
Work Completed - August 1, 1952
Total Depth - 440'
Depth of Casing - 440' 24" 8 guage

Log of Well

0' - 12' Sandy clay
12' - 180' Sand, gravel and boulders 10"
180' - 238' Sand and gravel 4"
238' - 253' Clay
253' - 270' Sand and gravel to 4"
270' - 275' Cemented clay
275' - 300' Caliche
300' - 315' Soft clay and small gravel
315' - 340' Soft sandy clay and silt
340' - 358' Hard clay
358' - 375' Soft sandy clay
375' - 390' Clay and gravel
390' - 440'. Hard clay

Perforations

Perforated from 80' to 420'
Perforations 5/8" x 4-3/4" - 14 holes per 12"

Depth to water first found 110'
Standing level before perforating 80'
Standing level after perforating 80'

Drilled by Roscoe Moss Company
Driller: J. N. Olson
Cable Tool #34

Cost

Drilling and Casing $10,970.20

RID# 103

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator Operator (Name)
(Address)

3. Driller W. N. Schnauffer (Name)
Belt & Miller Co. (Address)

4. Location of well: Twp. 1N Rge. 3E Section 13 SW ¼ NE ¼ SE ¼ (10-acre subdivision)
12E-3¼N

DESCRIPTION OF WELL

5. Total depth of hole 179 ft.

6. Type of casing 10 ga. W.C

7. Diameter and length of casing 20 in. from 0 to 179, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 55 to 170, from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 3/4 X 4 Number cuts per foot 12

11. If screen was installed: Length ____ ft. Diam ____ in. Type ____

12. Method of construction ____ (drilled, dug, driven, bored, jetted, etc.)

13. Date completed 7-10-28 (Month Year) Deepened ____ (Month Year)

14. Depth to water when drilled ____ ft. (If flowing well, so state.)

15. Present depth to water 73.0 ft. Date of measurement 5-1-46 (If flowing well, so state.)

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 9.4 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____ (weir, orifice, current meter, etc.)

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: (See 24) Twp. ____ Rge. ____ Section ____ ____ (Legal subdivision) ____ Acres ____
Twp. ____ Rge. ____ Section ____ ____ (Legal subdivision) ____ Acres ____

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump ____ (turbine, centrifugal, etc.)

26. Kind of power Elec. (electric, natural gas, etc.)

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)13 dac
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	10	Sand soil
10	12	Gravel & sand
12	17	Boulders
17	150	Sand, gravel & boulders
150	179	Sand, gravel boulders & clay
179		

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

RID #103

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGMENT SUPPORT SECTION

500 North Third Street - Phoenix, Arizona 85004-3903
Phone (602) 417-2470 Fax (602) 417-2422

RECEIVED MAR 12 1997 RECORDS MGT

WELL DRILLER REPORT

This report should be prepared by the Driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner's Name: Roosevelt Irrigation District

   Address: 103 W. Baseline Rd. (Street) Buckeye (City) AZ (State) 85326 (Zip) 386-2046 (Telephone Number)

2. Drilling Firm: The B.L. Weber Group, Inc.

   Address: 16825 S. Weber Drive (Street) Chandler (City) AZ (State) 85226 (Zip) 961-1141 (Telephone Number)

3. Location: NE ¼ (10 Acre) SE ¼ (40 Acre) SE ¼ (160 Acre) of Section 13 Township 1-N Range 2-E

4. Well Registration No. 55- 607208 (Required)

5. Permit No. _____ (If issued)

ENTERED MAR 19 1997

DESCRIPTION OF WELL

6. Total Depth of Hole 440 ft.
7. Type of Casing Corten
   Diameter and length of casing 20 inches from 0' to 440, inches from _____ to _____
   Method of sealing at reduction points _____
10. Perforated from 180' to 440' from _____ to _____ from _____ to _____
11. Size of cuts 1/4" X 2 1/2" Number of cuts per foot 40
12. If screen was installed: Length _____ feet. Diameter _____ inches. Type _____
13. Method of construction drilled
    (drilled, dug, driven, bored, jetted, etc.)
14. Date started 02 (Month) 07 (Day) 1997 (Year)
15. Date completed 02 (Month) 26 (Day) 1997 (Year)
16. Depth to water 76 ft. (If flowing well, so state).
17. Describe point from which depth measurements were made, and give sea-level elevation if available Top of concrete pumping pad.
18. If flowing well, state method of flow regulation:
19. Remarks: _____

DO NOT WRITE IN THIS SPACE
OFFICE RECORD
Registration No. _____
File No. A(1-2)13DDA
Received _____ By ____
Entered _____ By ____

DWR-55-55 (Rev 2/96)

LOG OF WELL

dicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which countered, and depth to which it rose in well.

From (feet)	To (feet)	
0	12	sandy clay
12	180	sand,gravel,boulders
180	238	sand,gravel
238	253	clay
253	270	sand,gravel
270	275	cemented clay
275	300	caliche
300	315	soft clay, small gravel
315	340	soft sandy clay, silt
340	358	hard clay
358	375	soft sandy clay
375	390	clay, gravel
390	440	hard clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller's Name (Qualifying Party): Harvey Anderson

16825 S. Weber Drive
Street

Chandler AZ 85226
City State Zip

(602) 961-1141 3/11/97
Phone Number Date

DWR 55-55 (Rev 2/96)

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 87

Description of Sample 12 E-3 1/4 N (A-1-2) 13 dad RID# 103

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By MAR 01 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	5.31	24.78	107	20.04
Magnesium	Mg	3.31	15.44	40	12.16
Sodium	Na	12.60	58.74	290	23.00
Potassium	K	0.18	0.82	6.90	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.05	0.22	0.50	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		21.44		443.90	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	6.80	32.96	415	61.02
Chloride	Cl	9.59	46.49	340	35.46
Sulfate	SO_4	3.84	18.61	184	48.03
Nitrate	NO_3	0.36	1.73	22	62.01
Fluoride	F	0.04	0.20	0.80	19.00
Phosphate	PO_4	0.00	0.01	0.06	31.66
TOTAL ANIONS		20.62		757.24	

Conductivity 25° C K = 2080 x 10^{-6}

pH 7.9

Total Dissolved Solids mg per liter 1195

Total Hardness mg per liter 432

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 506

% Sodium 58.74

1986 RID#103

SAMPLE ID: 12E 3 1/4N LAB NO: 476

	RV-ME	RV-%	MG/L
CALCIUM	4.30	24.22	86.25
MAGNESIUM	2.94	16.54	35.75
SODIUM	10.30	57.98	237.00
POTASSIUM	0.18	0.99	6.90
BORON	0.05	0.26	0.50
TOTAL	17.77	100.00	366.40
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.88	37.73	419.68
CHLORIDE	8.18	44.87	290.00
SULFATE	2.82	15.46	135.36
NITRATE	.31	1.67	18.93
FLUORIDE	0.05	0.26	0.91
PHOSPHATE	0.00	0.00	0.02
TOTAL	18.23	100.00	651.53

CONDUCTIVITY	1600.00
PH	7.50
TDS	1017.93
TH	362.51
NC HARDNESS	0.00
ALKALINITY	511.74
% SODIUM	57.98

1987 RID # 103

SAMPLE ID: 12E 3 1/4N LAB NO: 234

	RV-ME	RV-%	MG/L
CALCIUM	3.99	23.87	80.00
MAGNESIUM	2.47	14.75	30.00
SODIUM	10.09	60.34	232.10
POTASSIUM	0.11	0.67	4.41
BORON	0.06	0.36	0.65
TOTAL	16.72	100.00	347.16
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.56	37.69	400.16
CHLORIDE	7.50	43.11	266.00
SULFATE	3.04	17.49	146.16
NITRATE	.27	1.57	16.89
FLUORIDE	0.03	0.15	0.49
PHOSPHATE	0.00	0.00	0.02
TOTAL	17.40	100.00	626.28

CONDUTIVITY	1600.00
PH	7.30
TDS	973.44
TH	323.24
NC HARDNESS	1001.03
ALKALINITY	487.94
% SODIUM	60.34

1988 RID # 103

SAMPLE ID: 12E-31/4N LAB. NO: 170

	RV-ME	RV-%	MG/L
CALCIUM	4.37	25.60	87.50
MAGNESIUM	2.67	15.67	32.50
SODIUM	9.83	57.66	226.20
POTASSIUM	0.15	0.90	6.02
BORON	0.03	0.17	0.31
TOTAL	17.05	100.00	352.53
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.36	37.35	387.96
CHLORIDE	7.45	43.77	264.00
SULFATE	2.87	16.99	138.00
NITRATE	0.31	1.82	19.16
FLUORIDE	0.02	0.14	0.44
PHOSPHATE	0.02	0.01	0.03
TOTAL	17.03	100.00	812.59

CONDUCTIVITY	1600.00
PH	7.30
TDS	964.88
TH	352.26
NC HARDNESS	0.00
ALKALINITY	473.36
% SODIUM	57.66

ROOSEVELT IRRIGATION DISTRICT

WELL DATA REDRILL

Report on Well 12-1/2-E-3-3/4-N (#104) Located, E of Ave. 19

Redrill new location

4563

(A-1-3) 18 bbc

Work started May 20, 1957
Work completed June 14, 1957
Total depth 410'
Depth of casing 390'
24" - 8 Gauge casing used and left in well

Log of Well

From (A-1-2) 13 ada

0'	- 6'	- Top soil
6'	- 20'	- Clay, caliche and boulders
20'	- 150'	- Boulders
150'	- 165'	- Hard clay and boulders
165'	- 177'	- Boulders
177'	- 184'	- Sandy clay
184'	- 197'	- Clay and boulders
197'	- 278'	- Sticky clay
278'	- 325'	- Sticky clay and stks of sand
325'	- 410'	- Sticky clay

Perforations

100' to 370' - 11 holes per 12 inches - Mills knife used
Perforations - Diameter - 1/2"; Length - 4 1/2"
Depth at which water was first found - 93'
Standing level before perforating - 93'
Standing level after perforating - 93'

Well is straight, top to bottom

Remarks

Drilled by Roscoe Moss Company
Driller - J. O. Evans
Type and Rig No. used - Cable Tool #46

Drilling, casing and perforating 24" No. 8 gauge well to a depth of 400 feet for	$11,732.00
Drilling, casing and perforating 24" No. 8 gauge well 400 to 410 feet, or 10' @ $27.80 per ft.	278.00
	$12,010.00
Less 24" No. 8 gauge casing not installed 390 to 410 feet, or 20" @ $15.80 per ft.	316.00
	$11,694.00

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 88

redn 11 to (A-1-3)18 bbc

Description of Sample 12 1/2 E-3 3/4 N (A-1-2)13ada RID #104

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

MAR 01 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.01	21.31	60	20.04
Magnesium	Mg	1.64	11.66	20	12.16
Sodium	Na	9.28	65.81	214	23.00
Potassium	K	0.13	0.94	5.17	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.04	0.28	0.42	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		14.11		299.34	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	5.36	37.56	327	61.02
Chloride	Cl	5.87	43.31	208	35.46
Sulfate	SO_4	2.04	15.05	98	48.03
Nitrate	NO_3	0.23	1.71	14	62.01
Fluoride	F	0.05	0.35	0.90	19.00
Phosphate	PO_4	0.00	0.01	0.05	31.66
TOTAL ANIONS		13.54		481.95	

Conductivity 25° C K = 1390 x 10^{-6}

pH 8.0

Total Dissolved Solids mg per liter 781

Total Hardness mg per liter 233

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 399

% Sodium 65.81

1986 RID # 104

SAMPLE ID: 12 1/2E 3 3/4N LAB NO: 477

	RV-ME	RV-%	MG/L
CALCIUM	2.15	17.74	43.00
MAGNESIUM	1.56	12.92	19.00
SODIUM	8.22	67.93	189.00
POTASSIUM	0.13	1.09	5.17
BORON	0.04	0.33	0.43
TOTAL	12.10	100.00	256.60
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.28	43.79	322.08
CHLORIDE	4.79	39.78	170.00
SULFATE	1.68	13.93	80.64
NITRATE	0.26	2.15	16.10
FLUORIDE	0.04	0.34	0.77
PHOSPHATE	0.00	0.01	0.04
TOTAL	12.05	100.00	425.89

CONDUCTIVITY	1120.00
PH	7.70
TDS	682.48
TH	185.58
NC HARDNESS	0.00
ALKALINITY	392.73
% SODIUM	67.93

1989 RID# 104

SAMPLE ID: 12E-3 1/4N LAB. NO: 220

	RV-ME	RV-%	MG/L
CALCIUM	4.18	24.58	83.70
MAGNESIUM	2.96	17.42	36.00
SODIUM	9.64	56.75	221.80
POTASSIUM	0.18	1.04	6.90
BORON	0.04	0.21	0.38
TOTAL	16.99	100.00	348.78
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.48	37.88	395.28
CHLORIDE	7.95	46.50	282.00
SULFATE	2.50	14.61	120.00
NITRATE	0.06	0.36	3.77
FLUORIDE	0.11	0.66	2.13
PHOSPHATE	0.00	0.01	0.03
TOTAL	17.10	100.00	602.25
CONDUCTIVITY	1.61		
PH	7.30		
TDS	951.03		
TH	357.17		
NC HARDNESS	0.00		
ALKALINITY	481.99		
% SODIUM	56.75		

ROOSEVELT IRRIGATION DISTRICT

REDRILL 4680

WELL DATA

(#105)

Report on Well 5 E - 5 N - Located, Lateral 20

Work started - June 3, 1942
Work completed - July 16, 1942
Total Depth - 622'
Depth of casing - 622'
20" - 8 Gauge casing used and left in well
Size of shoe - 20 x 14 x 1¼"

Log of Well

0'	- 4'	- Soil
4	- 28	- Caliche clay
28	- 40	- Sand & gravel
40	- 54	- Hard clay and gravel
54	- 75	- Cemented sand and gravel
75	- 85	- Fine sand
85	- 102	- Hard clay
102	- 140	- Caliche clay
140	- 160	- Soft sticky clay
160	- 170	- Hard clay
170	- 174	- Gravel about 1"
174	- 192	- Cemented gravel
192	- 202	- Fine sand and gravel
202	- 235	- Caliche
235	- 248	- Sticky clay
248	- 286	- Boulders —
286	- 320	- Hard clay and shells
320	- 380	- Sandstone
380	- 415	- Sandstone and clay
415	- 422	- Gravel partly cemented
422	- 470	- Hard clay and sandstone
470	- 490	- Gravel 2" partly cemented -
490	- 510	- Hard clay
510	- 575	- Hard clay and sandstone
575	- 595	- Soft Clay
595	- 622	- Hard clay and sandstone

Perforations

80' to 508' - 8 Holes per 12 inches - Mills knife used
Perforations - Diam - 3/4"; Length - 5"
Depth at which water was first found - 35'
Standing level before perforating - 30'
Standing level after perforating - 30'

Remarks

Drilled by Roscoe Moss Company
Driller - J. E. Cunningham
Rig No. 24

X94 - 900
REV. 5/77

Salt River Project
Water Analysis 1985

Laboratory No. 72

Description of Sample 5 E-5 1 (A-1-1)12bbb RID #105

Date Sampled _____ Time _____ Temp _____ Discharge MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.47	13.52	70	20.04
Magnesium	Mg	4.11	16.03	50	12.16
Sodium	Na	17.89	69.77	412	23.00
Potassium	K	0.09	0.34	3.45	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.09	0.33	0.92	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		25.64		535.37	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	8.88	34.64	542	61.02
Chloride	Cl	11.51	44.90	408	35.46
Sulfate	SO_4	4.44	17.31	213	48.03
Nitrate	NO_3	0.69	2.67	42	62.01
Fluoride	F	0.12	0.47	2.30	19.00
Phosphate	PO_4	0.00	0.00	0.02	31.66
TOTAL ANIONS		25.63		932.22	

Conductivity 25° C K = 2530 x 10^{-6}

pH 7.8

Total Dissolved Solids mg per liter 1468

Total Hardness mg per liter 379

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 461

% Sodium 69.77

1986 RID #105

SAMPLE ID:	5E 5N	LAB NO:	446
	RV-ME	RV-%	MG/L
CALCIUM	3.01	13.05	60.25
MAGNESIUM	4.83	20.98	58.75
SODIUM	15.05	65.36	346.20
POTASSIUM	0.07	0.29	2.57
BORON	0.07	0.32	0.80
TOTAL	23.03	100.00	468.57
CARBONATE	0.00	0.00	0.00
BICARBONATE	9.76	41.57	595.36
CHLORIDE	9.64	41.09	342.00
SULFATE	3.36	14.31	161.28
NITRATE	.64	2.74	39.89
FLUORIDE	0.07	0.28	1.25
PHOSPHATE	0.00	0.01	0.05
TOTAL	23.47	100.00	837.15

CONDUCTIVITY	2040.00
PH	7.50
TDS	1305.73
TH	392.26
NC HARDNESS	0.00
ALKALINITY	725.96
% SODIUM	65.36

1986 RID#105

SAMPLE ID:	5E 5N	LAB NO:	446
	RV-ME	RV-%	MG/L
CALCIUM	3.01	13.05	60.25
MAGNESIUM	4.83	20.98	58.75
SODIUM	15.05	65.36	346.20
POTASSIUM	0.07	0.29	2.57
BORON	0.07	0.32	0.80
TOTAL	23.03	100.00	468.57
CARBONATE	0.00	0.00	0.00
BICARBONATE	9.76	41.57	595.36
CHLORIDE	9.64	41.09	342.00
SULFATE	3.36	14.31	161.28
NITRATE	.64	2.74	39.89
FLUORIDE	0.07	0.28	1.25
PHOSPHATE	0.00	0.01	0.05
TOTAL	23.47	100.00	837.15

CONDUCTIVITY	2040.00
PH	7.50
TDS	1305.73
TH	392.26
NC HARDNESS	0.00
ALKALINITY	725.96
% SODIUM	65.36

1987 RID#105

SAMPLE ID: 5Z 5N LAB NO: 230

	RV-ME	RV-%	MG/L
CALCIUM	4.09	16.88	82.00
MAGNESIUM	4.54	18.73	55.20
SODIUM	15.47	63.83	355.80
POTASSIUM	0.08	0.31	2.94
BORON	0.06	0.25	0.65
TOTAL	24.24	100.00	496.59
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.68	31.20	468.48
CHLORIDE	14.10	57.30	500.00
SULFATE	1.93	7.85	92.80
NITRATE	0.85	3.45	52.61
FLUORIDE	0.05	0.20	0.94
PHOSPHATE	0.00	0.00	0.01
TOTAL	24.61	100.00	876.66

CONDUTIVITY	2500.00
PH	7.50
TDS	1373.25
TH	431.96
NC HARDNESS	1001.03
ALKALINITY	571.25
% SODIUM	63.83

1988 RID# 105

SAMPLE ID:	SE-EN	LAB. NO:	310

	RV-ME	RV-%	MG/L
CALCIUM	3.57	17.96	71.50
MAGNESIUM	3.90	19.95	46.25
SODIUM	16.30	82.18	375.00
POTASSIUM	1.10	5.43	4.03
BORON	0.06	0.27	0.69
TOTAL	23.84	100.03	497.47
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.85	37.28	541.68
CHLORIDE	10.72	45.00	380.00
SULFATE	3.37	14.16	162.00
NITRATE	0.79	3.34	48.73
FLUORIDE	0.06	0.25	1.14
PHOSPHATE	0.00	0.01	2.06
TOTAL	23.81	100.04	858.22
CONDUCTIVITY	2300.00		
PH	7.50		
TDS	1355.69		
TH	360.50		
NC HARDNESS	0.00		
ALKALINITY	662.50		
% SODIUM	68.38		

Salt
1989

RID # 105

SAMPLE ID: 5E-5N LAB. NO: 186

	RV-ME	RV-%	MG/L
CALCIUM	4.53	19.10	90.70
MAGNESIUM	5.10	21.51	62.00
SODIUM	13.86	58.47	318.70
POTASSIUM	0.15	0.65	6.00
BORON	0.07	0.28	0.71
TOTAL	23.70	100.00	478.11
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.28	27.84	444.08
CHLORIDE	13.82	52.87	490.00
SULFATE	4.87	18.64	234.00
NITRATE	0.16	0.59	9.64
FLUORIDE	0.01	0.05	0.27
PHOSPHATE	0.00	0.00	0.03
TOTAL	26.14	100.00	952.24
CONDUCTIVITY	2.70		
PH	7.40		
TDS	1430.35		
TH	481.67		
NC HARDNESS	0.00		
ALKALINITY	541.49		
% SODIUM	58.47		

ROOSEVELT IRRIGATION DISTRICT

REDRILL 4681

WELL DATA

(#106)

Report on Well 6 E - 5 N - Located 3 miles east of Tolleson

Work started - April 16, 1942
Work completed - May 30, 1942
Total Depth - 790'
Depth of casing - 790'
20" - 8 Gauge casing used and left in well
Size of shoe - 20 x 14 x 1¼"

Log of Well

0'	To	3'	- Soil
3	-	24	- Caliche and clay
24	-	29	- Sand and gravel
29	-	60	- Caliche and clay
60	-	65	- Gravel 1" diameter
65	-	80	- Sticky clay
80	-	106	- Boulders 10" diameter
106	-	115	- Hard clay
115	-	148	- Boulders 10" diameter
148	-	178	- Hard clay
178	-	220	- Clache clay
220	-	230	- Cemented gravel
230	-	290	- Caliche and clay
290	-	302	- Cemented boulders
302	-	320	- Hard clay
320	-	370	- Sand and gravel 3", partly cemented
370	-	420	- Hard clay
420	-	455	- Hard clay and sandstone
455	-	505	- Cemented clay
505	-	515	- Hard clay and gravel
515	-	540	- Cemented clay
540	-	545	- Hard clay and gravel
545	-	566	- Hard clay and sandstone
566	-	585	- Hard clay and gravel
585	-	790	- Hard clay

Perforations

80' to 776' - 8 Holes per 12 inches - Mills knife used
Perforations - 3/4" Diam. - 5" Length
Depth at which water was first found - 60'
Standing Level before perforating - 45'
Standing level after perforating - 45'

Remarks

Drilled by Roscoe Moss Company
Driller - J. E. Cunningham
Rig No. 24

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 74

Description of Sample 6 E-5 N (A-1-2) 7bbb RID #106

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By MAR 01 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.15	15.00	83	20.04
Magnesium	Mg	3.45	12.47	42	12.16
Sodium	Na	19.88	71.80	457	23.00
Potassium	K	0.11	0.40	4.31	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.09	0.32	0.96	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		27.69		587.77	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	8.56	31.61	522	61.02
Chloride	Cl	12.97	47.93	460	35.46
Sulfate	SO_4	4.68	17.28	225	48.03
Nitrate	NO_3	0.78	2.86	48	62.01
Fluoride	F	0.08	0.31	1.60	19.00
Phosphate	PO_4	0.00	0.00	0.04	31.66
TOTAL ANIONS		27.07		991.06	

Conductivity 25° C K = 2700 x 10^{-6}

pH 7.7

Total Dissolved Solids mg per liter 1579

Total Hardness mg per liter 381

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 637

% Sodium 71.80

1986 RID #106

SAMPLE ID: 6E 5N LAB NO: 450

	RV-ME	RV-%	MG/L
CALCIUM	3.79	14.81	76.00
MAGNESIUM	3.47	13.57	42.25
SODIUM	18.12	70.77	416.70
POTASSIUM	0.12	0.48	4.84
BORON	0.09	0.36	1.00
TOTAL	25.60	100.00	540.79
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.32	31.51	507.52
CHLORIDE	12.97	49.14	460.00
SULFATE	4.20	15.90	201.60
NITRATE	0.86	3.25	53.17
FLUORIDE	0.05	0.19	0.95
PHOSPHATE	0.00	0.01	0.07
TOTAL	26.40	100.00	965.29

CONDUCTIVITY	2300.00
PH	7.60
TDS	1506.08
TH	363.67
NC HARDNESS	0.00
ALKALINITY	618.85
% SODIUM	70.77

1986 RID#106

SAMPLE ID: 6E 5N LAB NO: 450

	RV-ME	RV-%	MG/L
CALCIUM	3.79	14.81	76.00
MAGNESIUM	3.47	13.57	42.25
SODIUM	18.12	70.77	416.70
POTASSIUM	0.12	0.48	4.84
BORON	0.09	0.36	1.00
TOTAL	25.60	100.00	540.79
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.32	31.51	507.52
CHLORIDE	12.97	49.14	460.00
SULFATE	4.20	15.90	201.60
NITRATE	0.86	3.25	53.17
FLUORIDE	0.05	0.19	0.95
PHOSPHATE	0.00	0.01	0.07
TOTAL	26.40	100.00	965.29

CONDUCTIVITY	2300.00
PH	7.60
TDS	1506.08
TH	363.67
NC HARDNESS	0.00
ALKALINITY	618.85
% SODIUM	70.77

1987 RID #106

SAMPLE ID: 6E 5N LAB NO: 220

	RV-ME	RV-%	MG/L
CALCIUM	4.29	18.15	86.00
MAGNESIUM	3.29	13.92	40.00
SODIUM	15.89	67.21	365.40
POTASSIUM	0.09	0.40	3.68
BORON	0.08	0.32	0.82
TOTAL	23.64	100.00	495.90
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.24	33.74	502.64
CHLORIDE	11.90	48.75	422.00
SULFATE	3.34	13.69	160.54
NITRATE	0.88	3.62	54.82
FLUORIDE	0.05	0.20	0.92
PHOSPHATE	0.00	0.00	0.02
TOTAL	24.41	100.00	885.40

CONDUTIVITY	2200.00
PH	7.40
TDS	1381.30
TH	379.38
NC HARDNESS	1001.03
ALKALINITY	612.90
% SODIUM	67.21

1988 RID#106

SAMPLE ID:	6E-5N	LAB. NO:	311
	RV-ME	RV-%	MG/L
CALCIUM	4.43	17.41	64.25
MAGNESIUM	3.27	12.86	39.75
SODIUM	17.36	68.27	403.80
POTASSIUM	0.14	0.57	5.45
BORON	0.07	0.26	0.72
TOTAL	25.49	100.00	573.17
CARBONATE	0.00	0.00	0.00
BICARBONATE	9.00	34.12	549.00
CHLORIDE	12.97	49.20	460.00
SULFATE	3.44	13.03	165.00
NITRATE	0.94	3.59	58.91
FLUORIDE	0.08	0.29	1.44
PHOSPHATE	0.07	0.27	0.95
TOTAL	26.37	100.00	935.31

CONDUCTIVITY	2400.00
PH	7.40
TDS	1490.39
TH	386.47
NC HARDNESS	0.00
ALKALINITY	669.43
% SODIUM	68.57

1989
RID # 106

SAMPLE ID: 6E-5N LAB. NO: 190

	RV-ME	RV-%	MG/L
CALCIUM	4.60	22.16	92.10
MAGNESIUM	3.62	17.45	44.00
SODIUM	12.30	59.34	283.00
POTASSIUM	0.15	0.73	5.90
BORON	0.07	0.32	0.71
TOTAL	20.74	100.00	425.71
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.20	31.67	439.20
CHLORIDE	11.56	50.88	410.00
SULFATE	3.75	16.49	180.00
NITRATE	0.18	0.77	10.85
FLUORIDE	0.04	0.18	0.77
PHOSPHATE	0.00	0.00	0.01
TOTAL	22.72	100.00	817.54
CONDUCTIVITY	2.20		
PH	7.40		
TDS	1243.25		
TH	411.08		
NC HARDNESS	0.00		
ALKALINITY	535.54		
% SODIUM	59.34		

RID# 106

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner: Roosevelt Irrigation District (Name)
   Buckeye Arizona (Address)
2. Lessee or Operator: Operator (Name)
   (Address)
3. Driller: ~~Barker~~ J. E. Cunningham (Name)
   Roscoe Moss Co. (Address)
4. Location of well: Twp. 1N Rge. 2E Section 7 NW ¼ NW ¼ NW ¼ (10-acre subdivision)
   GE - SM.

DESCRIPTION OF WELL

5. Total depth of hole 790 ft.
6. Type of casing 8 ga.
7. Diameter and length of casing 20 in. from 0 to 790 in. from ___ to ___, ___ in. from ___ to ___
8. Method of sealing at reduction points ___
9. Perforated from 80 to 776, from ___ to ___, from ___ to ___, from ___ to ___
10. Size of cuts 3/4" x 5" Number cuts per foot 8
11. If screen was installed: Length ___ ft. Diam ___ in. Type ___
12. Method of construction ___ (drilled, dug, driven, bored, jetted, etc.)
13. Date completed ___ (Month, Year) Deepened ___ (Month, Year)
14. Depth to water when drilled 45 ft. (If flowing well, so state.)
15. Present depth to water 81.5 ft. Date of measurement 5-1-46 (If flowing well, so state.)
16. Describe point from which depth measurements were made, and give sea-level elevation if available ___
17. If flowing well, state method of flow regulation ___

DISCHARGE DATA

18. Well discharge 6.63 (gal. per min. or cu. ft. per sec. or miner's inches.)
19. Method of discharge measurement ___ (weir, orifice, current meter, etc.)
20. Drawdown ___ ft.
21. Annual discharge in acre-feet, or number of hours pumped: 1944 ___ a.f. or ___ hrs. 1945 ___ a.f. or ___ hrs.
22. Purpose of use ___
23. Place of use: (See 24) Twp. ___ Rge. ___ Section ___ ___ (Legal subdivision) Acres ___
    Twp. ___ Rge. ___ Section ___ ___ (Legal subdivision) Acres ___
24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
    Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump Turbine (turbine, centrifugal, etc.)
26. Kind of power Elec (electric, natural gas, etc.)
27. Horsepower rating of motor 100

DO NOT WRITE IN THIS SPACE

OFFICE RECORD

Received 7-17-46 by JJ
Filed 8-1-46 by JJ
File No. (A-1-2)7 bbb
Cross-referenced (Name) ___ by ___
Cross-referenced (Basin) ___ by ___
Cross-referenced ___ by ___

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	3'	Soil
3	24	Caliche and clay
24	29	Sand and gravel
29	60	Caliche and clay
60	65	Gravel 1" diameter
65	80	Sticky clay
80	106	Boulders 10" diameter
106	115	Hard clay
115	148	Boulders 10" diameter
148	178	Hard clay
178	220	Caliche clay
220	230	Cemented gravel
230	290	Caliche and clay
290	302	Cemented boulders
302	320	Hard clay
320	370	Sand and gravel 3", partly cemented
370	420	Hard clay
420	455	Hard clay and sandstone
455	505	Cemented clay
505	515	Hard clay and gravel
515	540	Cemented clay
540	545	Hard clay and gravel
545	566	Hard clay and sandstone
566	585	Hard clay and gravel
585	790	Hard clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

ROOSEVELT IRRIGATION DISTRICT Redrill

4682

Report on Well 7 E - 5 N (#107)

Work started - May 10, 1943
Work completed - May 27, 1943
Total depth - 414'
Depth of casing - 414' - 234' additional casing (180' 24" - old well)
234' - 16" - 10 gauge casing used & left in well

Log of Well

210' - 230' - Hard clay and gravel
230 - 240 - Soft sandy clay
240 - 258 - Hard clay
258 - 270 - Sand and gravel to 4"
270 - 286 - Clay
286 - 290 - Hard clay
290 - 314 - Gravel to 5"
314 - 320 - Soft sandy clay
320 - 324 - Cemented sand
324 - 332 - Soft clay
332 - 344 - Sand
344 - 348 - Gravel to 4"
348 - 352 - Clay
352 - 402 - Gravel to 4"
402 - 414 - Hard clay

180' to top of 16"

Perforations

Mills knife used
Perforated 200' to 404' - 8 holes per 10 inches
Diam - 5/8" - Length - 4"
Depth at which water was first found - 58'6"
Standing level before perforations - 58'6"
Standing level after perforating - 58'6"

Casing cut 180' from surface - 16" casing cut
30' lap in larger casing - adapter used

175' of sand cleaned out

REMARKS

Drilled by Roscoe Moss Co. Rig No. 22 - J. N. Olson, Driller

COST

16" Well - 210' to 414'- 204' @ $3.50/ft.	$714.00
20' - 16" #10 ga. starter with shoe installed	204.53
214' - 16" #10 ga. casing installed @ $4.14/ft.	885.96
Installing 210' - 16" casing in old well, cutting off casing and removing 180' of 16" casing, 210' @ 65¢/ft	136.50
1 - Steel adapter	35.00
TOTAL	$1,975.99

RID# 107

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner: Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator: Operator (Name)
(Address)

3. Driller: J. M. Olson (Name)
Roscoe Moss Co. (Address)

4. Location of well: Twp. 1N Rge. 8E Section 7 NE ¼ NE ¼ NE ¼ (10-acre subdivision)
7E - 5N.

DESCRIPTION OF WELL

5. Total depth of hole 414 ft.

6. Type of casing 10 ga O.C.

7. Diameter and length of casing 16 in. from ____ to ____, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 60 to 404, from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 5/8" X 4" Number cuts per foot 8 holes per 10."

11. If screen was installed: Length ____ ft. Diam ____ in. Type ____

12. Method of construction ____ (drilled, dug, driven, bored, jetted, etc.)

13. Date completed 4 - 35 (Month Year) Deepened May 1943 (Month Year)

14. Depth to water when drilled 58.6 ft. If flowing well, so state.

15. Present depth to water 83.7 ft. Date of measurement 5-1-46 If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 12.0 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____ weir, orifice, current meter, etc.

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: (See 24) Twp. ____ Rge. ____ Section ____ ____ Acres ____ Legal subdivision
Twp. ____ Rge. ____ Section ____ ____ Acres ____ Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump turbine, centrifugal, etc.

26. Kind of power Elec. electric, natural gas, etc.

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)7 aaa
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
210	230	Hard clay and gravel
230	240	Soft sandy clay
240	258	Hard clay
258	270	Sand and gravel to 4"
270	286	Clay
286	290	Hard clay
290	314	Gravel to 5"
314	320	Soft sandy clay
320	324	Cemented sand
324	332	Soft clay
332	334	Sand
334	348	Gravel to 4"
348	352	Clay
352	402	Gravel to 4"
402	414	Hard clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 139

Description of Sample WELL 7E-5N (A-1-2)8bbb RID#107 MAR 01 1985

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.27	17.90	85.00	20.04
Magnesium	Mg	3.13	13.19	38.00	12.16
Sodium	Na	16.10	67.94	370.40	23.00
Potassium	K	0.14	0.67	6.20	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.28	0.71	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		23.70	100.00	500.34	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	7.52	30.34	458.72	61.02
Chloride	Cl	13.09	52.81	464.00	35.46
Sulfate	SO_4	3.12	12.58	149.74	48.03
Nitrate	NO_3	1.02	4.12	63.29	62.01
Fluoride	F	0.04	0.14	0.67	19.00
Phosphate	PO_4	0.00	0.01	0.04	31.66
TOTAL ANIONS		24.78	100.00	903.28	

Conductivity 25° C K = 2200 x 10^{-6}

pH 7.5

Total Dissolved Solids mg per liter 1404

Total Hardness mg per liter 369

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 559

% Sodium 67.94

1986 RID #107

SAMPLE ID: 7E 5N LAB NO: 452

	RV-ME	RV-%	MG/L
CALCIUM	4.30	17.54	86.25
MAGNESIUM	3.31	13.49	40.25
SODIUM	16.72	68.15	384.60
POTASSIUM	0.13	0.54	5.17
BORON	0.07	0.28	0.75
TOTAL	24.54	100.00	517.02
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.16	32.17	497.76
CHLORIDE	12.58	49.60	446.00
SULFATE	3.72	14.66	178.56
NITRATE	0.83	3.26	51.19
FLUORIDE	0.08	0.30	1.45
PHOSPHATE	0.00	0.01	0.04
TOTAL	25.36	100.00	921.95

CONDUCTIVITY	2200.00
PH	7.80
TDS	1438.97
TH	381.04
NC HARDNESS	0.00
ALKALINITY	606.95
% SODIUM	68.15

1986 RID# 107

SAMPLE ID: 7E 5N LAB NO: 452

	RV-ME	RV-%	MG/L
CALCIUM	4.30	17.54	86.25
MAGNESIUM	3.31	13.49	40.25
SODIUM	16.72	68.15	384.60
POTASSIUM	0.13	0.54	5.17
BORON	0.07	0.28	0.75
TOTAL	24.54	100.00	517.02
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.16	32.17	497.76
CHLORIDE	12.58	49.60	446.00
SULFATE	3.72	14.66	178.56
NITRATE	0.83	3.26	51.19
FLUORIDE	0.08	0.30	1.45
PHOSPHATE	0.00	0.01	0.04
TOTAL	25.36	100.00	921.95

CONDUCTIVITY	2200.00
PH	7.80
TDS	1438.97
TH	381.04
NC HARDNESS	0.00
ALKALINITY	606.95
% SODIUM	68.15

1988 RID# 107

SAMPLE ID:	75-5N	LAB. NO:	612
	RV-ME	RV-%	MG/L
CALCIUM	4.33	17.28	84.70
MAGNESIUM	2.90	11.58	35.25
SODIUM	17.14	68.04	394.30
POTASSIUM	0.13	0.55	5.24
BORON	0.07	0.25	0.75
TOTAL	24.47	100.00	520.19
CARBONATE	0.00	0.00	0.00
BICARBONATE	9.56	39.11	582.14
CHLORIDE	11.70	46.66	415.00
SULFATE	3.81	15.19	183.00
NITRATE	0.94	3.74	58.74
FLUORIDE	0.07	0.29	1.43
PHOSPHATE	0.00	0.01	0.47
TOTAL	25.08	100.00	914.3.

CONDUCTIVITY	2300.00
PH	7.40
TDS	1434.50
TH	356.71
NC HARDNESS	0.00
ALKALINITY	636.70
% SODIUM	68.04

1989 RID # 107

SAMPLE ID: 7E-5N LAB. NO: 194

	RV-ME	RV-%	MG/L
CALCIUM	4.34	19.87	87.00
MAGNESIUM	3.62	16.57	44.00
SODIUM	13.71	62.78	315.40
POTASSIUM	0.15	0.70	6.00
BORON	0.02	0.08	0.19
TOTAL	21.84	100.00	452.59
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.68	32.26	468.48
CHLORIDE	11.56	48.59	410.00
SULFATE	4.37	18.37	210.00
NITRATE	0.15	0.62	9.19
FLUORIDE	0.03	0.15	0.66
PHOSPHATE	0.00	0.00	0.02
TOTAL	23.80	100.00	860.18
CONDUCTIVITY	2.20		
PH	7.40		
TDS	1312.77		
TH	398.34		
NC HARDNESS	0.00		
ALKALINITY	571.25		
% SODIUM	62.78		

1937

1989

RID # 108

SAMPLE ID: 7 1/2E-5N LAB. NO: 196

	RV-ME	RV-%	MG/L
CALCIUM	3.30	16.40	66.20
MAGNESIUM	2.96	14.69	36.00
SODIUM	13.71	68.06	315.40
POTASSIUM	0.15	0.76	6.00
BORON	0.02	0.09	0.19
TOTAL	20.15	100.00	423.79
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.28	33.29	444.08
CHLORIDE	10.55	48.24	374.00
SULFATE	3.87	17.71	186.00
NITRATE	0.13	0.61	8.31
FLUORIDE	0.03	0.15	0.61
PHOSPHATE	0.00	0.00	0.02
TOTAL	21.86	100.00	787.25
CONDUCTIVITY	2.20		
PH	7.40		
TDS	1211.04		
TH	313.48		
NC HARDNESS	0.00		
ALKALINITY	541.49		
% SODIUM	68.06		

REDRILL

WELL DATA

Nov. 22, 1940 4683

(#108)

Report on Well 7½ E - 5 N - Located near Tolleson

Work started - November 2, 1940
Work completed - November 22, 1940
Depth of Hole - 284'
Depth of casing - 276'
24" - 8 Gauge casing used and left in well
Size of shoe -

Log of Well

0'	- 9'	- Soil
9	- 26	- Gravel and sand
26	- 76	- Clay
76	- 82	- Fine hard packed sand
82	- 84	- Gravel
84	- 90	- Hard packed sand
90	- 102	- Coarse gravel to 8"
102	- 104	- Clay
104	- 160	- Gravel to 6"
160	- 190	- Sand and gravel to 6"
190	- 214	- Cemented gravel to 6"
214	- 240	- Hard Clay
240	- 244	- Gravel and clay
244	- 256	- Clay
256	- 270	- Gravel to 4"
270	- 280	- Cemented sand.
280	- 284	- Hard sandstone

Perforations

62' to 270' - 12 Holes per 12 inches
Mills knife used
Perforations - 3/4" Diam - 5" Length
Standing level before perforating - 58'
Standing level after perforating - 60'

Well is practically straight - top to bottom

Remarks

Drilled by - Roscoe Moss Co.
Driller - J. W. Thomas
Rig used - No. 27

$5.35 for casing - $3.00 for drilling

PRE-SAMPLING WELL INSPECTION FORM

KLEINFELDER, INC

Legal well designation: (A-1-2)8bAA Other designation: RID #108

Date 8-1-90 Time: 8:00Am Inspector:

Well location address (give cross-streets): VAN BUREN + 55th AVE

Contact name: Contact phone number: —

Owner's name RID

Owner's address:

Owner's telephone number:

Was the owner contacted during this well inspection:

Depth to water from reference point (RP): 116.4' Distance from R.P. to Ground Surface: 0

Depth to bottom of well from RP: R.P. identifiication Edge of pump base

Depth to pump:

Location of access port for measuring water level: slot in concrete

Casing Diameter (inside): ~12"

Type of well casing: Steel Stainless steel PVC Other:

Apparent well status: Active Inactive

Apparent well use: Irrigation

Type of pumping equipment installed: submersible line-shaft turbine none unknown

Is the well accessible for sampling:

Location and type of sampling port (i.e., hose bib, 3"gate valve, etc.)

Describe special sampling equipment requirements:

Other information:

ATTACH LOCATION MAP!!!!!!!!!!!!!!!!!!

(A-1-2) 8 bAM
RID# 108

N

VAN BUREN

O

53rd AVE

51st AVE

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 140

MAR 01 1985

Description of Sample WELL 9 1/2 - 5 N (A-1-2) 8 baa RID #108

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.99	16.25	80.00	20.04
Magnesium	Mg	3.04	12.38	37.00	12.16
Sodium	Na	17.31	70.46	398.10	23.00
Potassium	K	0.14	0.65	6.25	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.27	0.71	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		24.57	100.00	522.04	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	8.94	37.57	546.54	61.02
Chloride	Cl	12.18	51.10	432.00	35.46
Sulfate	SO_4	2.04	8.55	97.92	48.03
Nitrate	NO_3	0.63	2.62	38.96	62.01
Fluoride	F	0.04	0.15	0.67	19.00
Phosphate	PO_4	0.00	0.01	0.04	31.66
TOTAL ANIONS		23.84	100.00	838.10	

Conductivity 25° C K = 2300 x 10^{-6}

pH 7.4

Total Dissolved Solids mg per liter 1340

Total Hardness mg per liter 352

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 446

% Sodium 70.46

1986 RID# 108

SAMPLE ID: 7 1/2E 5N LAB NO: 454

	RV-ME	RV-%	MG/L
CALCIUM	3.66	15.50	73.25
MAGNESIUM	3.00	12.73	36.50
SODIUM	16.72	70.91	384.60
POTASSIUM	0.13	0.56	5.17
BORON	0.07	0.29	0.75
TOTAL	23.58	100.00	500.27
CARBONATE	0.00	0.00	0.00
BICARBONATE	9.04	37.42	551.44
CHLORIDE	11.39	47.18	404.00
SULFATE	3.12	12.91	149.76
NITRATE	0.52	2.17	32.43
FLUORIDE	0.08	0.32	1.45
PHOSPHATE	0.00	0.00	0.03
TOTAL	24.15	100.00	858.76

CONDUCTIVITY	2100.00
PH	7.50
TDS	1359.03
TH	333.14
NC HARDNESS	0.00
ALKALINITY	672.41
% SODIUM	70.91

1986 RID# 108

SAMPLE ID: 7 1/2E 5N LAB NO: 454

	RV-ME	RV-%	MG/L
CALCIUM	3.66	15.50	73.25
MAGNESIUM	3.00	12.73	36.50
SODIUM	16.72	70.91	384.60
POTASSIUM	0.13	0.56	5.17
BORON	0.07	0.29	0.75
TOTAL	23.58	100.00	500.27
CARBONATE	0.00	0.00	0.00
BICARBONATE	9.04	37.42	551.44
CHLORIDE	11.39	47.18	404.00
SULFATE	3.12	12.91	149.76
NITRATE	0.52	2.17	32.43
FLUORIDE	0.08	0.32	1.45
PHOSPHATE	0.00	0.00	0.03
TOTAL	24.15	100.00	858.76

CONDUCTIVITY	2100.00
PH	7.50
TDS	1359.03
TH	333.14
NC HARDNESS	0.00
ALKALINITY	672.41
% SODIUM	70.91

1987 RID#107

SAMPLE ID: 7E 5N LAB NO: 217

	RV-ME	RV-%	MG/L
CALCIUM	4.59	16.97	92.00
MAGNESIUM	6.42	23.74	78.10
SODIUM	15.89	58.73	365.40
POTASSIUM	0.09	0.35	3.68
BORON	0.06	0.21	0.63
TOTAL	27.05	100.00	539.81
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.76	29.10	473.36
CHLORIDE	13.48	50.56	478.00
SULFATE	4.56	17.10	219.01
NITRATE	0.82	3.09	51.06
FLUORIDE	0.04	0.14	0.73
PHOSPHATE	0.00	0.00	0.01
TOTAL	26.66	100.00	981.51

CONDUTIVITY	2700.00
PH	7.40
TDS	1521.32
TH	551.18
NC HARDNESS	1001.03
ALKALINITY	577.20
% SODIUM	58.73

1988

1988 RID # 108

SAMPLE ID: 7 1/2E-5N LAB. NO: 31.3

	RV-ME	RV-%	MG/L
CALCIUM	4.23	17.27	84.75
MAGNESIUM	2.90	11.84	35.35
SODIUM	17.14	70.00	394.20
POTASSIUM	0.14	0.59	5.65
BORON	0.07	0.29	0.77
TOTAL	24.48	100.00	520.62
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.60	34.18	524.60
CHLORIDE	11.94	47.09	420.00
SULFATE	3.81	15.15	183.00
NITRATE	0.83	3.31	51.57
FLUORIDE	0.07	0.27	1.33
PHOSPHATE	0.00	0.01	0.00
TOTAL	25.15	100.00	913.82

CONDUCTIVITY	2400.00
PH	7.30
TDS	1434.45
TH	356.71
NC HARDNESS	0.00
ALKALINITY	639.68
% SODIUM	70.00

1989 RID #108

SAMPLE ID: 7 1/2E-5N LAB. NO: 195

	RV-ME	RV-%	MG/L
CALCIUM	3.38	19.35	67.80
MAGNESIUM	2.06	11.76	25.00
SODIUM	11.87	67.87	273.00
POTASSIUM	0.16	0.92	6.30
BORON	0.02	0.10	0.20
TOTAL	17.49	100.00	372.30
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.24	37.03	380.64
CHLORIDE	7.78	46.20	276.00
SULFATE	2.69	15.94	129.00
NITRATE	0.10	0.57	5.98
FLUORIDE	0.04	0.25	0.81
PHOSPHATE	0.00	0.01	0.05
TOTAL	16.85	100.00	598.96
CONDUCTIVITY	1.60		
PH	7.30		
TDS	971.26		
TH	272.20		
NC HARDNESS	0.00		
ALKALINITY	464.14		
% SODIUM	67.87		

R1D #108

FORM W-2 10-48 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing ~~as of~~ Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District
Name
Buckeye Arizona
Address

2. Lessee or Operator Operator
Name
Address

3. Driller J. W. Thomas
Name
Roscoe Moss Co
Address

4. Location of well: Twp. 1 N Rge. 2E Section 8 NE ¼ NE ¼ NW ¼
10-acre subdivision
T1E-5N.

DESCRIPTION OF WELL

5. Total depth of hole 284 ft.

6. Type of casing 8 ga

7. Diameter and length of casing 24 in. from 0 to 276, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 62' to 270' from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 3/4" X 5" Number cuts per foot 12

11. If screen was installed: Length ____ ft. Diam ____ in. Type ____

12. Method of construction Driven
drilled, dug, driven, bored, jetted, etc.

13. Date completed Nov. 1940 (Month, Year) Deepened ____ (Month, Year)

14. Depth to water when drilled ____ ft.
If flowing well, so state.

15. Present depth to water 75.0 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 6.9
gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____
weir, orifice, current meter, etc.

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: Twp. ____ Rge. ____ Section ____ ____ Acres ____
(See 24) Legal subdivision
Twp. ____ Rge. ____ Section ____ ____ Acres ____
Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project,
Roosevelt Irrigation District
Name of Project

EQUIPMENT DATA

25. Kind of pump ____
turbine, centrifugal, etc.

26. Kind of power Elec
electric, natural gas, etc.

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2) 8 baa
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	9	Soil
9	26	Gravel and sand
26	76	Clay
76	82	Fine hard packed sand
82	84	Gravel
84	90	Hard packed sand
90	102	Coarse gravel to 8"
102	104	Clay
104	160	Gravel to 6"
160	190	Sand and gravel to 6"
190	214	Cemented gravel to 6"
214	240	Hard clay
240	244	Gravel and clay
244	256	Clay
256	270	Gravel to 4"
270	280	Cemented sand
280	284	Hard sandstone

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

May 29, 1957

Report on Well 8 E - 5 N (#109)

Revised

4684

Work started	-	April 22, 1957
Work completed	-	May 18, 1957
Total Depth	-	500'
Depth of Casing	-	406'

Log of Well

0'	-	6'	-	Top soil
6	-	20	-	Clay and caliche
20	-	50	-	Sand, gravel and caliche
50	-	60	-	Sand and gravel
60	-	84	-	Clay
84	-	130	-	Sand, gravel and caliche
130	-	138	-	Sand and gravel
138	-	220	-	Sand, gravel and caliche
220	-	247	-	Cemented gravel and boulders
247	-	271	-	Sand, gravel and caliche
271	-	313	-	Clay and gravel
313	-	351	-	Cemented gravel and boulders
351	-	380	-	Hard clay and caliche
380	-	390	-	Cemented gravel and boulders
390	-	395	-	Soft clay and fine gravel
395	-	418	-	Cemented gravel and boulders
418	-	430	-	Clay
430	-	455	-	Cemented gravel and boulders
455	-	475	-	Hard clay, embedded gravel
475	-	500	-	Sticky clay

Perforations

Perforated 140' to 394'
10 holes per 12 inches
Depth of Perforations - ½ inch
Length of Perforations - 5 inches
Depth at which water was first found - 133'
Standing level before perforating - 133'
Standing level after perforating - 130'

Well is straight from top to bottom
Will be no detrimental effect on pump

Remarks

Drilled by Roscoe Moss Co. - Cable Tool #46
J. O. Evans drilled - Mills Perforator

Cost

For materials furnished, equipment and tools used and wages of men paid by us while drilling, casing a nd perforating 20" No. 8 gauge Well #8 -E-5-N., on NW-¼ of NW-¼ of Sec 9, Twp 1 N, Range 2 E. Maricopa County, Arizona, as per our letter quotation dated December 16, 1956, and your P. O. #C-3191 dated April 29, 1957

(over)

Drill, case, perforate 20" No. 8 gauge well 500' in depth	$12,901.00
Less 20" No. 8 gauge casing not installed 406 to 500', or 94' - - @ $11.89 per ft.	1,117.66
	$11,783.34

PRE-SAMPLING WELL INSPECTION FORM

KLEINFELDER, INC

Legal well designation: (A-1-2) 9bbb Other designation: RID #109

Date 8/1/90 Time: 8:00 Am Inspector:

Well location address (give cross-streets): 51st Ave + Van Buren

Contact name: Contact phone number:

Owner's name RID

Owner's address:

Owner's telephone number:

Was the owner contacted during this well inspection:

Depth to water from reference point (RP): PWL 122.9' Distance from R.P. to Ground Surface: 0

Depth to bottom of well from RP: R.P. identifiication Edge of pump base

Depth to pump:

Location of access port for measuring water level: Slot in concrete at pump base

Casing Diameter (inside): ~12"

Type of well casing: Steel Stainless steel PVC Other:

Apparent well status: Active Inactive

Apparent well use: Irrigation

Type of pumping equipment installed: submersible line-shaft turbine none unknown

Is the well accessible for sampling:

Location and type of sampling port (i.e., hose bib, 3"gate valve, etc.)

Describe special sampling equipment requirements:

Other information:

ATTACH LOCATION MAP!!!!!!!!!!!!!!!!!!

(A-1-2) 9bbb
RID # 109

N

VAN BUREN

0

51st AVE

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 141

Description of Sample WELL 8E-5N (A-1-2)9bbb RID #109 MAR 01 1985

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	3.99	17.54	80.00	20.04
Magnesium	Mg	2.82	12.39	34.25	12.16
Sodium	Na	15.70	69.04	361.10	23.00
Potassium	K	0.14	0.70	6.25	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.29	0.71	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		22.73	100.00	482.31	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	7.74	36.07	473.36	61.02
Chloride	Cl	10.77	50.09	382.00	35.46
Sulfate	SO_4	2.28	10.59	109.44	48.03
Nitrate	NO_3	0.66	3.05	40.74	62.01
Fluoride	F	0.04	0.18	0.72	19.00
Phosphate	PO_4	0.00	0.02	0.11	31.66
TOTAL ANIONS		21.51	100.00	965.71	

Conductivity 25° C K = 2200 x 10^{-6}

pH 7.6

Total Dissolved Solids mg per liter 1248

Total Hardness mg per liter 341

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 577

% Sodium 69.04

1986 RID# 109

SAMPLE ID:	8E 5N	LAB NO:	458

	RV-ME	RV-%	MG/L
CALCIUM	3.66	16.02	73.25
MAGNESIUM	2.65	11.63	32.25
SODIUM	16.30	71.48	375.00
POTASSIUM	0.13	0.58	5.17
BORON	0.07	0.29	0.71
TOTAL	22.81	100.00	486.38
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.32	36.79	507.52
CHLORIDE	10.83	47.90	384.00
SULFATE	2.76	12.20	132.48
NITRATE	0.64	2.83	39.67
FLUORIDE	0.06	0.28	1.20
PHOSPHATE	0.00	0.00	0.03
TOTAL	22.61	100.00	806.87

CONDUCTIVITY	1940.00
PH	7.60
TDS	1293.25
TH	315.65
NC HARDNESS	0.00
ALKALINITY	618.85
% SODIUM	71.48

1986 RID#109

SAMPLE ID: SE 5N LAB NO: 458

	RV-ME	RV-%	MG/L
CALCIUM	3.66	16.02	73.25
MAGNESIUM	2.65	11.63	32.25
SODIUM	16.30	71.48	375.00
POTASSIUM	0.13	0.58	5.17
BORON	0.07	0.29	0.71
TOTAL	22.81	100.00	486.38
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.32	36.79	507.52
CHLORIDE	10.83	47.90	384.00
SULFATE	2.76	12.20	132.48
NITRATE	0.64	2.83	39.67
FLUORIDE	0.06	0.28	1.20
PHOSPHATE	0.00	0.00	0.03
TOTAL	22.61	100.00	806.87

CONDUCTIVITY	1940.00
PH	7.60
TDS	1293.25
TH	315.65
NC HARDNESS	0.00
ALKALINITY	618.85
% SODIUM	71.48

1987 RID#108

SAMPLE ID: 7 1/2E 5N LAB NO: 228

	RV-ME	RV-%	MG/L
CALCIUM	3.49	15.94	70.00
MAGNESIUM	2.76	12.61	33.60
SODIUM	15.47	70.59	355.80
POTASSIUM	0.11	0.52	4.42
BORON	0.07	0.34	0.81
TOTAL	21.91	100.00	464.63
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.64	38.57	527.04
CHLORIDE	11.17	49.87	396.00
SULFATE	1.93	8.63	92.80
NITRATE	0.60	2.69	37.38
FLUORIDE	0.05	0.23	0.99
PHOSPHATE	0.00	0.00	0.03
TOTAL	22.39	100.00	786.29

CONDUTIVITY	2100.00
PH	7.40
TDS	1250.91
TH	313.09
NC HARDNESS	1001.03
ALKALINITY	642.65
% SODIUM	70.59

1987 RID#109

SAMPLE ID: SE 5N LAB NO: 216

	RV-ME	RV-%	MG/L
CALCIUM	3.69	16.87	74.00
MAGNESIUM	2.54	11.61	30.90
SODIUM	15.47	70.67	355.80
POTASSIUM	0.11	0.52	4.41
BORON	0.07	0.33	0.79
TOTAL	21.89	100.00	465.90
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.64	36.65	502.64
CHLORIDE	10.66	47.43	378.00
SULFATE	2.90	12.90	139.20
NITRATE	0.63	2.82	39.26
FLUORIDE	0.04	0.19	0.83
PHOSPHATE	0.00	0.00	0.03
TOTAL	22.47	100.00	804.42

CONDUTIVITY	2000.00
PH	7.40
TDS	1270.32
TH	311.96
NC HARDNESS	1001.03
ALKALINITY	612.90
% SODIUM	70.67

1988 RID# 109

SAMPLE ID: 3E-5N LAB. NO: 314

	RV-ME	RV-%	MG/L
CALCIUM	3.78	16.38	75.75
MAGNESIUM	2.36	10.24	28.73
SODIUM	16.72	72.45	384.60
POTASSIUM	0.15	0.67	6.05
BORON	0.06	0.25	0.63
TOTAL	23.08	100.00	495.76
CARBONATE	0.00	0.00	0.00
BICARBONATE	9.06	38.34	553.88
CHLORIDE	10.43	44.07	370.00
SULFATE	3.37	14.25	162.00
NITRATE	0.72	3.02	44.47
FLUORIDE	0.07	0.30	1.36
PHOSPHATE	0.00	0.01	0.08
TOTAL	23.68	100.00	850.20
CONDUCTIVITY	2000.00		
PH	7.50		
TDS	1345.97		
TH	307.48		
NC HARDNESS	0.00		
ALKALINITY	675.38		
% SODIUM	72.45		

1989 RID# 109

SAMPLE ID: 8E-5N LAB. NO: 199

	RV-ME	RV-%	MG/L
CALCIUM	3.46	15.49	69.40
MAGNESIUM	5.59	25.02	68.00
SODIUM	13.08	58.53	300.90
POTASSIUM	0.16	0.72	6.30
BORON	0.05	0.23	0.57
TOTAL	22.35	100.00	445.17
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.48	35.24	517.28
CHLORIDE	11.28	46.89	400.00
SULFATE	4.12	17.13	198.00
NITRATE	0.12	0.48	7.20
FLUORIDE	0.06	0.25	1.16
PHOSPHATE	0.00	0.01	0.06
TOTAL	24.06	100.00	860.71
CONDUCTIVITY	2.10		
PH	7.40		
TDS	1305.87		
TH	453.18		
NC HARDNESS	0.00		
ALKALINITY	630.75		
% SODIUM	58.53		

RID # 109

ORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District
Name
Buckeye Arizona
Address

2. Lessee or Operator Operator
Name
Address

3. Driller Beauchamp, L. N. Brown Co.
Name
Address

4. Location of well: Twp. 1 N Rge. 2E Section 9 NW 1/4 NW 1/4 NW 1/4
SE-5 N.
10-acre subdivision

DESCRIPTION OF WELL

5. Total depth of hole 242 500 ft.

6. Type of casing 8 ga.

7. Diameter and length of casing 24 in. from 0 to 242, ____ in. from ____ to ____, ____ in. from ____ to ____

8. Method of sealing at reduction points ____

9. Perforated from 60' to 232, from ____ to ____, from ____ to ____, from ____ to ____

10. Size of cuts 3/4" x 4" Number cuts per foot 14

11. If screen was installed: Length ____ ft. Diam ____ in. Type ____

12. Method of construction Driven
drilled, dug, driven, bored, jetted, etc.

13. Date completed ____ Month ____ Year Deepened ____ Month ____ Year

14. Depth to water when drilled ____ ft.
If flowing well, so state.

15. Present depth to water 76.5 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available ____

17. If flowing well, state method of flow regulation ____

DISCHARGE DATA

18. Well discharge 7.75
gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement ____
weir, orifice, current meter, etc.

20. Drawdown ____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 ____ a.f. or ____ hrs. 1945 ____ a.f. or ____ hrs.

22. Purpose of use ____

23. Place of use: (See 24) Twp. ____ Rge. ____ Section ____ ____ Acres ____
Legal subdivision
Twp. ____ Rge. ____ Section ____ ____ Acres ____
Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project:
Roosevelt Irrigation District
Name of Project

EQUIPMENT DATA

25. Kind of pump ____
turbine, centrifugal, etc.

26. Kind of power Elec
electric, natural gas, etc.

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)9 bbb
Cross-referenced (Name) ____ by ____
Cross-referenced (Basin) ____ by ____
Cross-referenced ____ by ____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
1	8	Soil
8	24	Sand
24	36	Clay & Caliche
36	66	Gravel
66	80	Clay & caliche
80	102	Boulders (tight)
102	114	Clay caliche
114	158	Boulders
158	173	Clay & caliche
173	242	Gravel & boulders (New casing apparently hit old hole and drilling stopped)

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

ROOSEVELT IRRIGATION DISTRICT

April 18, 1957

WELL DATA

4686

Report on Well 9E - 5N (#110)

Rudriel

Work Started - March 12, 1957
Work Completed - April 18, 1957
Total Depth - 500'
Depth of Casing - 480'
20" - 8 Gauge casing used and left in Well

Log of Well

0' - 4' - Top soil
4' - 20' - Caliche
20' - 122' - Sand, gravel and caliche
122' - 152' - Cemented sand and gravel
152' - 225' - Sand, gravel and boulders
225' - 237' - Cemented gravel and boulders
237' - 268' - Sand, gravel and caliche
268' - 355' - Clay and gravel
355' - 380' - Cemented conglomerate
380' - 390' - Clay and gravel
390' - 413' - Hard caliche and gravel
413' - 417' - Clay and gravel
417' - 457' - Hard caliche and gravel
457' - 480' - Sticky clay
480' - 500' - Hard caliche and gravel

Perforations

140' to 465' - 10 Holes per 12 Inches
Mills used
Perforations - Diam - 1/2"; Length - 4-1/2"
Depth at which water was first found - 128'
Standing level before perforating - 128'
Standing level after perforating - 131'

Well is straight, top to bottom
No detrimental effect on pump

Remarks

Drilled by Roscoe Moss Company
Driller - J. O. Evans
Rig No. Used - #46

Cost - $12,322.00

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 142
MAR 01 1985

Description of Sample WELL 9E-5N (A-1-2) 9aab RID#110

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	4.74	18.92	95.00	20.04
Magnesium	Mg	3.13	12.48	38.00	12.16
Sodium	Na	16.91	67.50	388.90	23.00
Potassium	K	0.20	0.80	7.81	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.08	0.30	0.82	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		25.05	100.00	530.53	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	7.84	32.75	478.24	61.02
Chloride	Cl	12.58	52.54	446.00	35.46
Sulfate	SO_4	2.52	10.53	120.94	48.03
Nitrate	NO_3	0.95	3.94	58.77	62.01
Fluoride	F	0.04	0.18	0.83	19.00
Phosphate	PO_4	0.00	0.01	0.10	31.66
TOTAL ANIONS		23.93	100.00	861.74	

Conductivity 25° C K = 2820 x 10^{-6}

pH 7.6

Total Dissolved Solids mg per liter 1392

Total Hardness mg per liter 394

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 583

% Sodium 67.50

1986 RID# 110

SAMPLE ID: 9E 5N LAB NO: 462

	RV-ME	RV-%	MG/L
CALCIUM	3.66	15.25	73.25
MAGNESIUM	2.94	12.27	35.75
SODIUM	17.14	71.51	394.20
POTASSIUM	0.15	0.64	6.03
BORON	0.08	0.33	0.86
TOTAL	23.97	100.00	510.09
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.00	32.87	488.00
CHLORIDE	11.84	48.67	420.00
SULFATE	3.72	15.28	178.56
NITRATE	0.71	2.93	44.24
FLUORIDE	0.06	0.25	1.15
PHOSPHATE	0.00	0.00	0.01
TOTAL	24.33	100.00	883.87

CONDUTIVITY	1690.00
PH	7.60
TDS	1393.25
TH	330.05
NC HARDNESS	0.00
ALKALINITY	595.05
% SODIUM	71.51

1986 RID# 110

SAMPLE ID: 9E 5N LAB NO: 462

	RV-ME	RV-%	MG/L
CALCIUM	3.66	15.25	73.25
MAGNESIUM	2.94	12.27	35.75
SODIUM	17.14	71.51	394.20
POTASSIUM	0.15	0.64	6.03
BORON	0.08	0.33	0.86
TOTAL	23.97	100.00	510.09
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.00	32.87	488.00
CHLORIDE	11.84	48.67	420.00
SULFATE	3.72	15.28	178.56
NITRATE	0.71	2.93	44.24
FLUORIDE	0.06	0.25	1.15
PHOSPHATE	0.00	0.00	0.01
TOTAL	24.33	100.00	883.87

CONDUTIVITY	1690.00
PH	7.60
TDS	1393.25
TH	330.05
NC HARDNESS	0.00
ALKALINITY	595.05
% SODIUM	71.51

1987 RD#110

SAMPLE ID: 9E 5N LAB NO: 233

	RV-ME	RV-%	MG/L
CALCIUM	4.09	18.51	82.00
MAGNESIUM	2.76	12.50	33.60
SODIUM	15.05	68.10	346.20
POTASSIUM	0.11	0.51	4.41
BORON	0.08	0.38	0.91
TOTAL	22.10	100.00	467.12

CARBONATE	0.00	0.00	0.00
BICARBONATE	7.92	35.09	483.12
CHLORIDE	11.62	51.50	412.00
SULFATE	2.32	10.28	111.36
NITRATE	0.65	2.87	40.09
FLUORIDE	0.06	0.27	1.14
PHOSPHATE	0.00	0.01	0.04
TOTAL	22.56	100.00	802.13

CONDUTIVITY	2200.00
PH	7.40
TDS	1269.25
TH	343.05
NC HARDNESS	1001.03
ALKALINITY	589.10
% SODIUM	68.10

1989 RID# 110

SAMPLE ID: 9E-5N LAB. NO: 206

	RV-ME	RV-%	MG/L
CALCIUM	4.10	16.33	82.20
MAGNESIUM	5.92	23.57	72.00
SODIUM	14.82	58.98	340.80
POTASSIUM	0.19	0.75	7.40
BORON	0.09	0.37	1.01
TOTAL	25.12	100.00	503.41
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.00	33.20	488.00
CHLORIDE	11.73	48.69	416.00
SULFATE	4.18	17.37	201.00
NITRATE	0.13	0.54	8.08
FLUORIDE	0.05	0.19	0.89
PHOSPHATE	0.00	0.00	0.03
TOTAL	24.09	100.00	865.90
CONDUCTIVITY	2.20		
PH	7.40		
TDS	1369.31		
TH	501.61		
NC HARDNESS	0.00		
ALKALINITY	595.05		
% SODIUM	58.98		

RID #110

FORM W-2 10-48 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District
Name
Buckeye Arizona
Address

2. Lessee or Operator _____
Name
_____
Address

3. Driller Williams
Name
_____
Address

4. Location of well: Twp. 1 N Rge. 2 E Section 9 NE ¼ NE ¼ NE ¼
10-acre subdivision
9E-5N

DESCRIPTION OF WELL

5. Total depth of hole ~~227~~ 500 ft.

6. Type of casing _____

7. Diameter and length of casing 24 in. from 0 to 227, _____ in. from _____ to _____, _____ in. from _____ to _____

8. Method of sealing at reduction points _____

9. Perforated from 70' to 218', from _____ to _____, from _____ to _____, from _____ to _____

10. Size of cuts _____ Number cuts per foot 14

11. If screen was installed: Length _____ ft. Diam. _____ in. Type _____

12. Method of construction _____
drilled, dug, driven, bored, jetted, etc.

13. Date completed 3-36 (Month, Year) Deepened _____ (Month, Year)

14. Depth to water when drilled _____ ft.
If flowing well, so state.

15. Present depth to water 78.0 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available _____

17. If flowing well, state method of flow regulation _____

DISCHARGE DATA

18. Well discharge 9.0
gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement _____
weir, orifice, current meter, etc.

20. Drawdown _____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 _____ a.f. or _____ hrs. 1945 _____ a.f. or _____ hrs.

22. Purpose of use _____

23. Place of use: Twp. _____ Rge. _____ Section _____ _____ Acres _____
(See 24) Legal subdivision
Twp. _____ Rge. _____ Section _____ _____ Acres _____
Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District
Name of Project

EQUIPMENT DATA

25. Kind of pump _____
turbine, centrifugal, etc.

26. Kind of power Elec
electric, natural gas, etc.

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)9 aaa
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

(See Other Side)

V

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	52	Caliche
52	167	Gravel and water
167	168	Clay
168	194	Gravel
194	224	Gravel and sand
224	227	Cemented gravel

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

ROOSEVELT IRRIGATION DISTRICT

REDRILL

(#111)

WELL DATA

Report on Well 9 3/4E-5N - Located 2½ Miles west of Phoenix on Van Buren Streeet.

4687

Work started - February 20, 1943
Work completed - March 30, 1943
Total depth - 454'
Depth of casing - 454'
24" - 8 Gauge casing & 16" - 8 & 10 Gauge casing
206 Ft. - 24" and 258 Ft. - 16" - Left in well
Size of shoe -

Log of Well

0'	- 4'	- Soil
4'	- 20	- Caliche and gravel
20	- 40	- Clay
40	- 154	- Boulders
154	- 185	- Hard clay
185	- 224	- Boulders
224	- 256	- Hard clay and sandstone
256	- 308	- Boulders
308	- 318	- Cemented sand and gravel
318	- 354	- Cemented gravel and boulders
354	- 376	- Sand and gravel
376	- 390	- Cemented sand and gravel
390	- 425	- Conglomerate
425	- 442	- Hard clay and sandstone
442	- 448	- Sand and rock
448	- 456	- Clay

Perforations

55' to 192' - 12 holes per 12 inches
206' to 442' - 8 holes per 12 inches
Diam - 3/4 x 5" and 5/8" x 5"; Length 5" and 4"
Depth at which water was first found - 45'
Standing level before perforations - 45'
Standing level after perforations - 45'

Casing was cut 198' from surfact - 16" casing cut -
Lap in larger casing 8'
Adapter was used
Well is practically straight, top to bottom.

REMARKS

Drilled by Roscoe Moss Company - J. E. Cunningham, Driller Rig #24.
The first 206' of 24" well was drilled for Defense Plant Corp. Aluminum Corp. of America Agents, thru Hedrick-Beck & Bate.

COST: Installing 16" starter & 16" casing in 24" well 206' deep & cutting off 16" casing & removing same .65¢ per ft. $133.90
Drilling 16" well 206' to 254' - 248'@ $3.50/ft. 868.00
1 - 16" No. 10 gauge starter with shoe 204.53
228'-16" No. 10 gauge double well casing @4.14/ft 943.92
1 - Adapter 24" to 16" 35.00
TOTAL $2,185.35

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 143

MAR 01 1985

Description of Sample WELL 9 3/4 E - 5 N (A-1-2) 10aba RID#111

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	5.49	22.44	110.00	20.04
Magnesium	Mg	3.35	13.71	40.75	12.16
Sodium	Na	15.30	62.60	351.90	23.00
Potassium	K	0.22	0.90	8.59	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.08	0.34	0.89	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		24.44	100.00	572.13	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	7.20	30.87	439.20	61.02
Chloride	Cl	12.52	53.71	444.00	35.46
Sulfate	SO_4	2.64	11.32	126.72	48.03
Nitrate	NO_3	0.91	3.89	56.28	62.01
Fluoride	F	0.04	0.19	0.83	19.00
Phosphate	PO_4	0.00	0.02	0.14	31.66
TOTAL ANIONS		23.31	100.00	843.28	

Conductivity 25° C K = 2350 x 10^{-6}

pH 7.4

Total Dissolved Solids mg per liter 1354

Total Hardness mg per liter 442

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 534

% Sodium 62.60

1986 RD#111

SAMPLE ID: 9 3/4E 5N LAB NO: 464

	RV-ME	RV-%	MG/L
CALCIUM	4.52	18.98	90.50
MAGNESIUM	3.13	13.13	38.00
SODIUM	15.89	66.77	365.40
POTASSIUM	0.18	0.74	6.90
BORON	0.09	0.37	0.96
TOTAL	23.79	100.00	501.76
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.28	29.94	444.08
CHLORIDE	12.30	50.59	436.00
SULFATE	3.96	16.28	190.08
NITRATE	0.72	2.94	44.36
FLUORIDE	0.06	0.24	1.10
PHOSPHATE	0.00	0.00	0.03
TOTAL	24.30	100.00	889.87

CONDUTIVITY	1840.00
PH	7.40
TDS	1391.64
TH	382.39
NC HARDNESS	0.00
ALKALINITY	541.49
% SODIUM	66.77

1986 RID# 111

SAMPLE ID: 9 3/4E 5N LAB NO: 464

	RV-ME	RV-%	MG/L
CALCIUM	4.52	18.98	90.50
MAGNESIUM	3.13	13.13	38.00
SODIUM	15.89	66.77	365.40
POTASSIUM	0.18	0.74	6.90
BORON	0.09	0.37	0.96
TOTAL	23.79	100.00	501.76
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.28	29.94	444.08
CHLORIDE	12.30	50.59	436.00
SULFATE	3.96	16.28	190.08
NITRATE	0.72	2.94	44.36
FLUORIDE	0.06	0.24	1.10
PHOSPHATE	0.00	0.00	0.03
TOTAL	24.30	100.00	889.87

CONDUTIVITY	1840.00
PH	7.40
TDS	1391.64
TH	382.39
NC HARDNESS	0.00
ALKALINITY	541.49
% SODIUM	66.77

RID#111

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District
Name
Buckeye Arizona
Address

2. Lessee or Operator _____
Name
_____
Address

3. Driller J. E. Cunningham
Name
Rosson Moss Co.
Address

4. Location of well: Twp. 1 N Rge. 2 E Section 10 NE ¼ NE ¼ NE ¼
10-acre subdivision
93/4 E — 5 m.

DESCRIPTION OF WELL

5. Total depth of hole 452 ft.

6. Type of casing 8 & 10 gv.

7. Diameter and length of casing ~~8"~~ in. from 16" to 0 452, _____ in. from _____ to _____, _____ in. from _____ to _____

8. Method of sealing at reduction points _____

9. Perforated from 55 to 442, from _____ to _____, from _____ to _____, from _____ to _____

10. Size of cuts 3/4" X 5" Number cuts per foot 12

11. If screen was installed: Length _____ ft. Diam _____ in. Type _____

12. Method of construction Drilled
drilled, dug, driven, bored, jetted, etc.

13. Date completed _____ Month _____ Year Deepened March Month 1943 Year

14. Depth to water when drilled _____ ft.
If flowing well, so state.

15. Present depth to water 76.0 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available _____

17. If flowing well, state method of flow regulation _____

DISCHARGE DATA

18. Well discharge 13.2
gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement _____
weir, orifice, current meter, etc.

20. Drawdown _____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 _____ a.f. or _____ hrs. 1945 _____ a.f. or _____ hrs.

22. Purpose of use _____

23. Place of use: Twp. _____ Rge. _____ Section _____ _____ Acres _____
(See 24) Legal subdivision
Twp. _____ Rge. _____ Section _____ _____ Acres _____
Legal subdivision

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project
Roosevelt Irrigation District
Name of Project

EQUIPMENT DATA

25. Kind of pump _____
turbine, centrifugal, etc.

26. Kind of power Elec.
electric, natural gas, etc.

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)10 aaa
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	4	Soil
4	20	Caliche and gravel
20	40	Clay
40	154	Boulders
154	185	Hard clay
185	224	Boulders
224	256	Hard clay and sandstone
256	308	Boulders
308	318	Cemented sand and gravel
318	354	Cemented gravel and boulders
354	376	Sand and gravel
376	390	Cemented sand and gravel
390	425	Conglomerate
425	442	Hard clay and sandstone
442	448	Sand and rock
448	454	Clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

RID #112

FORM W-2 10-48 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner: Roosevelt Irrigation District (Name)
Buckeye, Arizona (Address)

2. Lessee or Operator: _____ (Name)
_____ (Address)

3. Driller: J. M. Olson (Name)
Roscoe Moore Co. (Address)

4. Location of well: Twp. 1 N Rge. 2 E Section 11 SW ¼ NE ¼ NE ¼ (10-acre subdivision)
10½ E – 5 m.

DESCRIPTION OF WELL

5. Total depth of hole 650 ft.

6. Type of casing 10 ga.

7. Diameter and length of casing 16 in. from 0 to 650 in. from _____ to _____, _____ in. from _____ to _____

8. Method of sealing at reduction points _____

9. Perforated from 50 to 635, from _____ to _____, from _____ to _____, from _____ to _____

10. Size of cuts 3/4" X 4" Number cuts per foot 8 holes per 10"

11. If screen was installed: Length _____ ft. Diam. _____ in. Type _____

12. Method of construction: Reamed (drilled, dug, driven, bored, jetted, etc.)

13. Date completed Sept. 1943 (Month Year) Deepened _____ (Month Year)

14. Depth to water when drilled _____ ft.
If flowing well, so state.

15. Present depth to water 87.0 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available _____

17. If flowing well, state method of flow regulation _____

DISCHARGE DATA

18. Well discharge 7.75 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement _____ weir, orifice, current meter, etc.

20. Drawdown _____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 _____ a.f. or _____ hrs. 1945 _____ a.f. or _____ hrs.

22. Purpose of use Irrigation

23. Place of use: Twp. _____ Rge. _____ Section _____ Legal subdivision _____ Acres _____
(See 24)
Twp. _____ Rge. _____ Section _____ Legal subdivision _____ Acres _____

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump turbine, centrifugal, etc.

26. Kind of power Elec. electric, natural gas, etc.

27. Horsepower rating of motor 125

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)11 aac
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	10	Soil
30	40	Clay and gravel
40	86	Gravel
86	107	Clay
107	125	Gravel
125	145	Clay
145	187	Gravel
187	191	Clay
191	218	Gravel
218	244	Clay and gravel
244	258	Gravel
258	300	Clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

(#112) WELL DATA October 26, 1943

4588

Report on Well 10½E - 5N - Located 3 miles west of Phoenix, on Van Buren

Started Work - August 21, 1943
Completed Work - September 15, 1943
Depth of Hole - 650 feet.
Depth of Casing- 650 feet.
16" - 10-gauge casing used and left in well
Size of shoe -

Log of Well

300'	- 326'	- Hard clay
326	- 340	- Sand
340	- 348	- Hard clay
348	- 354	- Sand
354	- 362	- Hard clay
362	- 366	- Sand
366	- 650	- Hard clay.

Perforations

Perforated 300' to 635' - 8 Holes per 10 inches
Mills knife used
Perforations - 3/4" Diam. - 4"Length

Casing - Cut 296' from surface
Size of casing cut - 16"
Lap of larger casing - 4 ft.
Adapter used.

Well is practically straight - top to bottom.

Remarks

Drilled by - Roscoe Moss Co.
Driller - J. N. Olson
Rig used - No. 22

Cost

Drilling & casing 16" well 320' to 650' 330' @ $6.74 per ft.	$2,224.20
Starter - 16" x 20'	204.53
Drilling in 16" starter 20' @ $2.60/ft.	52.00
Adapter - 20" to 16"	35.00
Installing 296' - 16" casing @ 65¢ & removing same	192.40
4' - 16" No. 10 gauge between 296' & 300', left in well @ $4.14	16.56
TOTAL	$2,724.69

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 144

Description of Sample WELL 10 1/2 E - 5N (A-1-2) 11 bad RID#112 MAR 01 1985

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	5.99	25.35	120.00	20.04
Magnesium	Mg	3.66	15.49	44.50	12.16
Sodium	Na	13.69	57.95	314.80	23.00
Potassium	K	0.22	0.93	8.59	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.28	0.71	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		23.62	100.00	488.60	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	6.72	30.05	409.92	61.02
Chloride	Cl	11.68	52.18	414.00	35.46
Sulfate	SO_4	3.12	13.94	149.76	48.03
Nitrate	NO_3	0.82	3.66	50.74	62.01
Fluoride	F	0.04	0.18	0.78	19.00
Phosphate	PO_4	0.00	0.02	0.12	31.66
TOTAL ANIONS		22.37	100.00	816.92	

Conductivity 25° C K = 2250 x 10^{-6}

pH 7.4

Total Dissolved Solids mg per liter 1304

Total Hardness mg per liter 483

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 500

% Sodium 57.95

1986 RID # 112

SAMPLE ID: 10 1/2E 5N LAB NO: 468

	RV-ME	RV-%	MG/L
CALCIUM	5.81	25.05	116.50
MAGNESIUM	3.74	16.12	45.50
SODIUM	13.38	57.65	307.70
POTASSIUM	0.20	0.86	7.76
BORON	0.08	0.33	0.82
TOTAL	23.21	100.00	478.28
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.60	34.06	463.60
CHLORIDE	12.41	55.62	440.00
SULFATE	1.56	6.99	74.88
NITRATE	0.69	3.10	42.94
FLUORIDE	0.06	0.24	1.10
PHOSPHATE	0.00	0.00	0.02
TOTAL	22.31	100.00	786.70

CONDUTIVITY	2060.00
PH	7.40
TDS	1264.98
TH	478.18
NC HARDNESS	0.00
ALKALINITY	565.30
% SODIUM	57.65

1986 RID #112

SAMPLE ID: 10 1/2E 5N LAB NO: 468

	RV-ME	RV-%	MG/L
CALCIUM	5.81	25.05	116.50
MAGNESIUM	3.74	16.12	45.50
SODIUM	13.38	57.65	307.70
POTASSIUM	0.20	0.86	7.76
BORON	0.08	0.33	0.82
TOTAL	23.21	100.00	478.28
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.60	34.06	463.60
CHLORIDE	12.41	55.62	440.00
SULFATE	1.56	6.99	74.88
NITRATE	0.69	3.10	42.94
FLUORIDE	0.06	0.24	1.10
PHOSPHATE	0.00	0.00	0.02
TOTAL	22.31	100.00	786.70

CONDUTIVITY	2060.00
PH	7.40
TDS	1264.98
TH	478.18
NC HARDNESS	0.00
ALKALINITY	565.30
% SODIUM	57.65

1987 RID# 112

SAMPLE ID: 10 1/2E 5N LAB NO: 244

	RV-ME	RV-%	MG/L
CALCIUM	5.59	24.93	112.00
MAGNESIUM	3.22	14.35	39.10
SODIUM	13.38	59.69	307.70
POTASSIUM	0.15	0.67	5.88
BORON	0.08	0.36	0.88
TOTAL	22.41	100.00	465.56
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.96	29.98	424.56
CHLORIDE	12.35	53.23	438.00
SULFATE	3.19	13.74	153.12
NITRATE	0.69	2.97	42.75
FLUORIDE	0.02	0.07	.31
PHOSPHATE	0.00	0.01	0.07
TOTAL	23.21	100.00	842.96
CONDUTIVITY	2200.00		
PH	7.30		
TDS	1308.52		
TH	440.60		
NC HARDNESS	1001.03		
ALKALINITY	517.69		
% SODIUM	59.69		

1989 RID#112

SAMPLE ID: 10 1/2E-5N LAB. NO: 210

	RV-ME	RV-%	MG/L
CALCIUM	5.33	24.57	106.90
MAGNESIUM	3.78	17.42	46.00
SODIUM	12.29	56.58	282.60
POTASSIUM	0.22	1.01	8.60
BORON	0.09	0.42	0.98
TOTAL	21.71	100.00	445.08
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.04	31.01	429.44
CHLORIDE	12.27	54.05	435.00
SULFATE	3.19	14.03	153.00
NITRATE	0.16	0.72	10.08
FLUORIDE	0.04	0.19	0.82
PHOSPHATE	0.00	0.01	0.05
TOTAL	22.70	100.00	810.06
CONDUCTIVITY	2.15		
PH	7.30		
TDS	1255.14		
TH	456.27		
NC HARDNESS	0.00		
ALKALINITY	523.64		
% SODIUM	56.58		

215

4689

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

Report on Well 11 E - 5 N (#113)

Work Started	-	December 22, 1952
Work Completed	-	January 24, 1953
Total Depth	-	415'
Depth of Casing	-	20' - 20"

Log of Well

220'	-	227'	Clay
227'	-	267'	Gravel to 4"
267'	-	274'	Caliche
274'	-	293'	Streaks of sand in soft sandy clay
293'	-	415'	Clay

Perforations

Perforated from 228' to 398'
Perforations 5/8" x 4-$\frac{1}{4}$, 10 Holes per 12"

Standing level before perforating 80'
Standing level after perforating ..... 80'

Type of perforator used - Mills

Remarks

Drilled by: Roscoe Moss Company
Driller: J. N. Olson

Cost

Drilling and casing 20' of 20" 10 guage well 415' - $ 2,499.40

30' of sand and muck after perforating

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 146

Description of Sample KOFILL 11E - 5N (A-1-2) 11aaa RID # 113 MAR 01 1985

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	6.47	28.59	129.75	20.04
Magnesium	Mg	3.80	16.79	46.25	12.16
Sodium	Na	12.08	53.33	277.80	23.00
Potassium	K	0.22	0.97	8.59	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.32	0.79	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		22.65	100.00	463.18	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	6.40	28.35	390.40	61.02
Chloride	Cl	11.94	52.99	424.00	35.46
Sulfate	SO_4	3.34	14.88	161.28	48.03
Nitrate	NO_3	0.81	3.58	50.04	62.01
Fluoride	F	0.04	0.19	0.83	19.00
Phosphate	PO_4	0.00	0.01	0.09	31.66
TOTAL ANIONS		22.57	100.00	828.19	

Conductivity 25° C K = 2280 x 10^{-6}

pH 7.4

Total Dissolved Solids mg per liter 1291

Total Hardness mg per liter 514

Non Carbonate Hardness mg per liter 38

Alkalinity as $CaCO_3$ mg per liter 474

% Sodium 53.33

1986 RID # 113

SAMPLE ID: 11E 5N LAB NO: 472

	RV-ME	RV-%	MG/L
CALCIUM	5.81	25.40	116.50
MAGNESIUM	3.82	16.71	46.50
SODIUM	12.96	56.62	298.10
POTASSIUM	0.20	0.87	7.76
BORON	0.09	0.40	1.00
TOTAL	22.89	100.00	469.86
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.20	30.41	439.20
CHLORIDE	12.24	51.70	434.00
SULFATE	3.48	14.69	167.04
NITRATE	0.71	2.98	43.79
FLUORIDE	0.05	0.21	0.95
PHOSPHATE	0.00	0.00	0.03
TOTAL	23.67	100.00	861.72

CONDUTIVITY	2100.00
PH	7.50
TDS	1331.58
TH	482.29
NC HARDNESS	0.00
ALKALINITY	535.54
% SODIUM	56.62

1986 RID #113

SAMPLE ID: 11E 5N LAB NO: 472

	RV-ME	RV-%	MG/L
CALCIUM	5.81	25.40	116.50
MAGNESIUM	3.82	16.71	46.50
SODIUM	12.96	56.62	298.10
POTASSIUM	0.20	0.87	7.76
BORON	0.09	0.40	1.00
TOTAL	22.89	100.00	469.86
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.20	30.41	439.20
CHLORIDE	12.24	51.70	434.00
SULFATE	3.48	14.69	167.04
NITRATE	0.71	2.98	43.79
FLUORIDE	0.05	0.21	0.95
PHOSPHATE	0.00	0.00	0.03
TOTAL	23.67	100.00	861.72

CONDUTIVITY	2100.00
PH	7.50
TDS	1331.58
TH	482.29
NC HARDNESS	0.00
ALKALINITY	535.54
% SODIUM	56.62

1987 RID #113

SAMPLE ID: 115 5N LAB NO: 221

	RV-ME	RV-%	MG/L
CALCIUM	6.19	27.40	124.00
MAGNESIUM	3.59	15.88	43.60
SODIUM	12.54	55.55	288.50
POTASSIUM	0.17	0.75	6.62
BORON	0.10	0.43	1.04
TOTAL	22.58	100.00	463.76
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.96	29.76	424.56
CHLORIDE	11.79	50.43	418.00
SULFATE	3.86	16.53	185.60
NITRATE	0.72	3.09	44.85
FLUORIDE	0.04	0.18	.79
PHOSPHATE	0.00	0.01	0.04
TOTAL	23.38	100.00	858.00

CONDUTIVITY	2200.00
PH	7.30
TDS	1321.76
TH	489.09
NC HARDNESS	1001.03
ALKALINITY	517.69
% SODIUM	55.55

1989 RID# 113

SAMPLE ID: 11E-5N LAB. NO: 218

	RV-ME	RV-%	MG/L
CALCIUM	5.53	22.16	110.90
MAGNESIUM	7.07	28.32	86.00
SODIUM	12.03	48.20	276.80
POTASSIUM	0.22	0.88	8.60
BORON	0.11	0.44	1.18
TOTAL	24.97	100.00	483.48
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.20	30.90	439.20
CHLORIDE	12.27	52.67	435.00
SULFATE	3.62	15.55	174.00
NITRATE	0.14	0.62	8.97
FLUORIDE	0.06	0.24	1.06
PHOSPHATE	0.00	0.01	0.06
TOTAL	23.29	100.00	835.00
CONDUCTIVITY	2.10		
PH	7.20		
TDS	1318.48		
TH	630.89		
NC HARDNESS	95.35		
ALKALINITY	535.54		
% SODIUM	48.20		

RID #113

FORM W-2 10-45 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator _____ (Name)
_____ (Address)

3. Driller W. S. Williams (Name)
_____ (Address)

4. Location of well: Twp. 1 N Rge. 2 Section 11 NE ¼ NE ¼ NE ¼ (10-acre subdivision)
NE-5m

DESCRIPTION OF WELL

5. Total depth of hole 219 ft.

6. Type of casing 8ga.

7. Diameter and length of casing 24" in. from 0 to 219, _____ in. from _____ to _____, _____ in. from _____ to _____

8. Method of sealing at reduction points _____

9. Perforated from 65' to 211', from _____ to _____, from _____ to _____, from _____ to _____

10. Size of cuts _____ Number cuts per foot 14

11. If screen was installed: Length _____ ft. Diam _____ in. Type _____

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed _____ (Month, Year) Deepened _____ (Month, Year)

14. Depth to water when drilled _____ ft.
If flowing well, so state.

15. Present depth to water 85.5 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available _____

17. If flowing well, state method of flow regulation _____

DISCHARGE DATA

18. Well discharge 11.0 gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement _____ (weir, orifice, current meter, etc.)

20. Drawdown _____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 _____ a.f. or _____ hrs. 1945 _____ a.f. or _____ hrs.

22. Purpose of use _____

23. Place of use: (See 24) Twp _____ Rge _____ Section _____ _____ (Legal subdivision) _____ Acres _____
Twp. _____ Rge. _____ Section _____ _____ (Legal subdivision) _____ Acres _____

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump Turbine, centrifugal, etc.

26. Kind of power Gas (electric, natural gas, etc.)

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 by lj
File No. (A-1-2)11 aaa
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	10	Soil
10	26	Caliche
26	38	Coarse gravel
38	47	Sand clay and water
47	68	Large boulders
68	72	Clay and boulders
72	86	Clay and caliche
86	92	Coarse gravel
92	116	Water, gravel and sand
116	150	Sand and boulders
150	153	Sand
153	168	Coarse gravel
168	178	Clay, sand and gravel
178	192	Boulders
192	213	Clay and sand
213	219	6" stickey clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

RID#113

FORM W-3—2M—3-50—S.P.CO.

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REPORT OF WELL DRILLER

EXCERPT OF 1945 GROUNDWATER LAW

Report of Well Driller must be prepared by the driller in all detail and filed with the State Land Commissioner as required by Section 7, Chapter 12, Senate Bill No. 3, First Special Session, 1945. This report should be in the mail within 30 days following completion of the well. Section 8 of the law provides: "Any person (includes any individual, firm, public or private corporation, or governmental agency) who shall fail or refuse to make any of the reports, give the notices required, or fail to cooperate with the State Land Commissioner or his representative, under the provisions of this Act, shall be guilty of a misdemeanor and shall be fined a sum not exceeding One Hundred Dollars."

1. OWNER Roosevelt Irrigation District (Name)
   Buckeye, Arizona. (Address)
2. Lessee or Operator ..... (Name)
   ..... (Address)
3. DRILLER Roscoe Moss Company (Name)
   4360 Worth Street, Los Angeles, California. (Address)
4. Location of well: Twp. 1N Rge. 2E Section 11 NE ¼ NE ¼ NE ¼ (10-acre subdivision)
   11E, 5N
5. Intention to Drill File No. .....

(Deepening Job) **DESCRIPTION OF WELL**

6. Total depth of hole 415 ft.
7. Type of casing Hard red steel
8. Diameter and length of casing ..... in. from ..... to ....., ... in. from ..... to ....., ... in. from ..... to .....
9. Method of sealing at reduction points .....
10. Perforated from 228 to 398, from ..... to ....., from ..... to ....., from ..... to .....
11. Size of cuts 5/8 x 4-1/4 Number cuts per foot 10 per 12 inches
12. If screen was installed: Length ..... ft. Diam. ..... in. Type .....
13. Method of construction Drilled Calif Type Cable Tool (drilled, dug, driven, bored, jetted, etc.)
14. Date completed January 24, 1953 (Month Year)
15. Depth to water 80 ft. (If flowing well, so state.)
16. Describe point from which depth measurements were made, and give sea-level elevation if available
    Ground Surfac.e
17. If flowing well, state method of flow regulation .....
18. REMARKS: .....

DO NOT WRITE IN THIS SPACE

OFFICE RECORD

Received 3-23-53 by lec

Filed 3-23-53 by lec

File No. (A-1-2)11 aaa

(Well Log to Appear on Reverse Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
220	227	Clay
227	267	Gravel to 4"
267	274	Caliche
274	293	Streaks of sand in soft sandy clay
293	415	Clay

RECEIVED MAR 25 1953 STATE LAND DEPT.

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller: Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, Calif
Address

Date: March 20th., 1953.

ROOSEVELT IRRIGATION DISTRICT

WELL DATA

4690

Report on Well 11½ - 5N (#114) Deepening Job

Work Started	-	January 26, 1953
Completed Work	-	February 11, 1953
Total Depth	-	395'
Depth of Casing	-	202' - 20"

Log of Well

200'	-	206'	Caliche
206'	-	250'	Sand and gravel
250'	-	270'	Soft sandy clay
270'	-	290'	Clay
290'	-	350'	Sandy clay
350'	-	395'	Hard Clay

Perforations

Perforated from 205' to 380'
Perforations 5/8" x 5", 10 Holes per 12"

Standing level after perforating 85'

Type of perforator used - Mills

Remarks

Drilled by: Roscoe Moss Company
Driller: J. N. Olson

Cost

Drilling and casing 202' of 20" 10 gauge well 395' -$ 2,004.35

Roosevelt Irrigation District furnished 164'20" used Pipe. Roscoe Moss Company furnished starter and drive section

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 150

Description of Sample WELL 11½ E-5N (A-1-2) 12baa RID#114

Date Sampled _____ Time _____ Temp _____ Discharge _____ MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	5.24	25.59	105.00	20.04
Magnesium	Mg	3.27	15.97	39.75	12.16
Sodium	Na	11.67	57.03	268.50	23.00
Potassium	K	0.22	1.07	8.59	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.34	0.75	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		20.47	100.00	422.59	
ANIONS					
Carbonate	CO_3	0.00	0.00	0.00	30.00
Bicarbonate	HCO_3	7.04	33.54	429.44	61.02
Chloride	Cl	10.32	49.22	366.00	35.46
Sulfate	SO_4	2.88	13.72	138.24	48.03
Nitrate	NO_3	0.69	3.27	42.49	62.01
Fluoride	F	0.04	0.21	0.83	19.00
Phosphate	PO_4	0.00	0.02	0.14	31.66
TOTAL ANIONS		20.97	100.00	758.82	

Conductivity 25° C K = 1800 x 10^{-6}

pH 7.4

Total Dissolved Solids mg per liter 1181

Total Hardness mg per liter 424

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 524

% Sodium 57.03

1986 RID # 114

SAMPLE ID: 11 1/2E 5N LAB NO: 474

	RV-ME	RV-%	MG/L
CALCIUM	5.16	25.18	103.50
MAGNESIUM	3.37	16.44	41.00
SODIUM	11.70	57.07	269.20
POTASSIUM	0.18	0.86	6.90
BORON	0.09	0.45	1.00
TOTAL	20.51	100.00	421.60
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.52	35.39	458.72
CHLORIDE	10.15	47.80	360.00
SULFATE	2.88	13.55	138.24
NITRATE	0.64	3.02	39.84
FLUORIDE	0.05	0.23	0.91
PHOSPHATE	0.00	0.00	0.03
TOTAL	21.24	100.00	764.52

CONDUTIVITY	1860.00
PH	7.40
TDS	1186.12
TH	427.20
NC HARDNESS	0.00
ALKALINITY	559.35
% SODIUM	57.07

1986 RID#114

SAMPLE ID: 11 1/2E 5N LAB NO: 474

	RV-ME	RV-%	MG/L
CALCIUM	5.16	25.18	103.50
MAGNESIUM	3.37	16.44	41.00
SODIUM	11.70	57.07	269.20
POTASSIUM	0.18	0.86	6.90
BORON	0.09	0.45	1.00
TOTAL	20.51	100.00	421.60
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.52	35.39	458.72
CHLORIDE	10.15	47.80	360.00
SULFATE	2.88	13.55	138.24
NITRATE	0.64	3.02	39.84
FLUORIDE	0.05	0.23	0.91
PHOSPHATE	0.00	0.00	0.03
TOTAL	21.24	100.00	764.52

CONDUTIVITY	1860.00
PH	7.40
TDS	1186.12
TH	427.20
NC HARDNESS	0.00
ALKALINITY	559.35
% SODIUM	57.07

1987 RID #114

SAMPLE ID: 11 1/2E 5N LAB NO: 215

	RV-ME	RV-%	MG/L
CALCIUM	5.59	27.45	112.00
MAGNESIUM	3.22	15.79	39.10
SODIUM	11.29	55.43	259.60
POTASSIUM	0.17	0.83	6.62
BORON	0.10	0.51	1.11
TOTAL	20.36	100.00	418.43
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.12	34.19	434.32
CHLORIDE	10.27	49.31	364.00
SULFATE	2.70	12.99	129.92
NITRATE	0.69	3.33	43.03
FLUORIDE	0.04	0.17	.67
PHOSPHATE	0.00	0.00	0.01
TOTAL	20.82	100.00	751.14

CONDUTIVITY	1900.00
PH	7.40
TDS	1169.58
TH	440.60
NC HARDNESS	1001.03
ALKALINITY	529.59
% SODIUM	55.43

RID #114

FORM W-2 10-48 JAHN-TYLER

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REGISTRATION OF WELL

Registration of well existing as of Oct. 3, 1945 is hereby made and filed with the State Land Commissioner as required by Section 5, Chapter 12, Senate Bill No. 3, Seventeenth Legislature, First Special Session 1945.

1. Owner: Roosevelt Irrigation District (Name)
Buckeye Arizona (Address)

2. Lessee or Operator: _____ (Name)
_____ (Address)

3. Driller: F. E. Beauchamp (Name)
E. N. Brown Co. (Address)

4. Location of well: Twp. ~~1~~ 1 N Rge. 2 E Section 12 NE ¼ NE ¼ NW ¼ (10-acre subdivision)
11½ E - 5 N.

DESCRIPTION OF WELL

5. Total depth of hole 206 ft.

6. Type of casing 8 ga.

7. Diameter and length of casing 24 in. from 0 to 206, _____ in. from _____ to _____, _____ in. from _____ to _____

8. Method of sealing at reduction points _____

9. Perforated from 60' to 198', from _____ to _____, from _____ to _____, from _____ to _____

10. Size of cuts 3/4" x 4" Number cuts per foot 12 34.5 Sq. Ft.

11. If screen was installed: Length _____ ft. Diam _____ in. Type _____

12. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

13. Date completed 4-16-'34 (Month Year) Deepened _____ (Month Year)

14. Depth to water when drilled _____ ft.
If flowing well, so state.

15. Present depth to water 74.5 ft. Date of measurement 5-1-46
If flowing well, so state.

16. Describe point from which depth measurements were made, and give sea-level elevation if available _____

17. If flowing well, state method of flow regulation _____

DISCHARGE DATA

18. Well discharge _____ gal. per min. or cu. ft. per sec. or miner's inches.

19. Method of discharge measurement _____ weir, orifice, current meter, etc.

20. Drawdown _____ ft.

21. Annual discharge in acre-feet, or number of hours pumped: 1944 _____ a.f. or _____ hrs. 1945 _____ a.f. or _____ hrs.

22. Purpose of use _____

23. Place of use: (See 24) Twp. _____ Rge. _____ Section _____ _____ Acres _____ (Legal subdivision)
Twp. _____ Rge. _____ Section _____ _____ Acres _____ (Legal subdivision)

24. If well is part of irrigation system of Irrigation District, Association or Company, omit 23 and give name of project.
Roosevelt Irrigation District (Name of Project)

EQUIPMENT DATA

25. Kind of pump _____ turbine, centrifugal, etc.

26. Kind of power E. Co. C. electric, natural gas, etc.

27. Horsepower rating of motor 200

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-17-46 by lj
Filed 8-1-46 A-1-21 by lj
File No. (~~A-E-2~~) 12 baa
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

(See Other Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material
0	25	Clay and caliche
25	45	Gravel and boulders
45	65	Sand
65	80	Clay
80	165	Boulders
165	204	Sand
204	206	Clay

I hereby certify that I have read the foregoing statements, and that each and all of the items therein contained are true to the best of my knowledge and belief.

Owner, Operator or Driller

Address

Date

RID #114

FORM W-3—2M—3-50—S.P.CO.

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REPORT OF WELL DRILLER

EXCERPT OF 1945 GROUNDWATER LAW

Report of Well Driller must be prepared by the driller in all detail and filed with the State Land Commissioner as required by Section 7, Chapter 12, Senate Bill No. 3, First Special Session, 1945. This report should be in the mail within 30 days following completion of the well. Section 8 of the law provides: "Any person (includes any individual, firm, public or private corporation, or governmental agency) who shall fail or refuse to make any of the reports, give the notices required, or fail to cooperate with the State Land Commissioner or his representative, under the provisions of this Act, shall be guilty of a misdemeanor and shall be fined a sum not exceeding One Hundred Dollars."

1. OWNER Roosevelt Irrigation District (Name)
   Buckeye, Arizona. (Address)
2. Lessee or Operator ..... (Name)
   ..... (Address)
3. DRILLER Roscoe Moss Company (Name)
   4360 Worth Street, Los Angeles, California. (Address)
4. Location of well: Twp. 1N (1½ E 5 N) Rge. 2E Section 12 NE ¼ NE ¼ NW ¼ (10-acre subdivision)
5. Intention to Drill File No. .....

(DEEPENING JOB)
DESCRIPTION OF WELL

6. Total depth of hole 395 ft.
7. Type of casing Hard red steel
8. Diameter and length of casing 20 in. from 195 to 395, ... in. from ..... to ....., ... in. from ..... to .....
9. Method of sealing at reduction points .....
10. Perforated from 205 to 380, from ..... to ....., from ..... to ....., from ..... to .....
11. Size of cuts 5/8 x 5 Number cuts per foot 10 per 12 inches
12. If screen was installed: Length ..... ft. Diam. ..... in. Type .....
13. Method of construction Drilled Calif. Type Cable Tool (drilled, dug, driven, bored, jetted, etc.)
14. Date completed February 11, 1953 (Month, Year)
15. Depth to water 85 ft. (If flowing well, so state.)
16. Describe point from which depth measurements were made, and give sea-level elevation if available
    Ground Surface.
17. If flowing well, state method of flow regulation .....
18. REMARKS: .....

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 3-25-53 by lec
Filed 3-25-53 by lec
File No. (A-1-2)12 baa

(Well Log to Appear on Reverse Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
200	206	Caliche
206	250	Sand and gravel
250	270	Soft sandy clay
270	290	Clay
290	350	Sandy clay
350	395	Hard clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, Calif
Address

Date March 20, 1953.

KLEINFELDER

SHEET____ OF____

PROJECT_____ PROJECT NO._____

SUBJECT_____ BY_____ DATE_____

_____ REVIEWED BY_____ DATE_____

K-2 Water Levels 8/1 - 8/3/90

Date			PWL	SWL	RP	Dist. RP to gnd
	(A-1-2) 9bbb	RID #109	122.9		pumpbase	0
	(A-1-2) 8baa	RID #108	116.4		pumpbase	0
	(A-1-2) 8bbb	RID #107	117.0		pump base	0
	(A-1-2) 9cbc	RID #89	Ate probe 100.0?		pump base	0
8/1/90	(A-1-2) 17Add	RID # 88	112'		pump base	0
	(A-1-2) 17cAA	RID # 87	94.6'		pump base	0
	(A-1-2) 10cbc	RID #92	+ 180'		pump base	0
	(A-1-2) 18Acb	RID # 86	104.6'		pump base	0
	(A-1-2) 7ccc	RID #85	100.2'		pump base	0
8/2/90	(A-1-2) 7bbb	RID #106	~97' (cascading water?)			
	(A-1-1) 12dbA	RID # 84	115.3'		pump base	0
	(A-1-1) 12bbb	RID #105	96.5'		pump base	0
	(A-1-1) 2dA	Brooks, Jr	82.0'		Access port	0
	(A-1-1) 13baa	Lyons		92.5'	Access port	9"
8/3/90	(A-1-1) 14dAc	McBride (LBR Farms)		73.0'	pump base	0
	(A-1-1) 11bcc	Trail Boss		80.0'	Access port	8"
	(A-1-1) 14bAb1	B&T Enterprises		76.0'	Access port	0"
	(A-1-1) 15Add	Layton	93.0'		pump base	0"
	(A-1-1) 23bbb	SW Farm		58.8'	Access port	0"
	(A-1-1) 11ddd	Gallo	100.4'		Access port	4"

1230-02
10.0

4646

Test Sheet

ROOSEVELT IRRIGATION DISTRICT

TOLLESON WELLS

RID # ____ DATE 1/26/88 19____

WELL NO.	[redacted]	[redacted]	[redacted]	[redacted]	WELL NO.	[redacted]	[redacted]	[redacted]	[redacted]
CC2			STATIC	DATE	CC1	RID #		STATIC	DATE
4E—12N	O.C.				8E—4¼N	89		70'	2/23/88
2¼E—12N	O.C.				8½E—3½N	90		55'	1/26/88
2E—11½N			120'	2/24/88	9E—3½N	91		56'	1/26/88
2E—10½N			107'	2/24/88	9E—4¼N	92		65'	1/27/88
1½E—10½N			112'	2/24/88	9½E—3½N	93		52'	1/26/88
1½E—10N			110'	2/24/88	10E—3¾N	94		55'	1/26/88
1½E—9½N			112'	2/24/88	10E—4¼N	95		59'	1/27/88
1E—9N			111'	2/24/88	10⅛E—3¼N	96		50'	1/26/88
1E—8½N			107'	2/24/88	10½E—3⅛N	97		51'	1/26/88
1E—8N			102'	2/23/88	11E—3N	98		50'	1/26/88
					11E—3¾N	99		55'	1/27/88
					11E—4¼N	100		64'	2/23/88
					11½E—3N	101		51'	1/27/88
CC1					11¾E—3¾N	102		54'	1/27/88
¼W—7½N			96'	2/25/88	12E—3¼N	103		54'	1/27/88
0W—7½N			100'	2/25/88	12½E—3¾N	104		55'	1/27/88
½E—7½N			100'	2/25/88					
1E—7½N	~~O.C.~~		99'	2/25/88					
1½E—7½N			103'	2/25/88					
1¾E—6½N			100'	2/23/88	Salt Canal				
2E—6N			91'	2/25/88	5E—5N	105		71'	2/23/88
2½E—6N			87'	2/25/88	6E—5N	106		73'	2/23/88
2½E—6½N			95'	2/25/88	7E—5N	107		78'	2/23/88
3E—6½N			96'	2/23/88	7½E—5N	108		80'	2/23/88
3E—6N			86'	2/25/88	8E—5N	109		81'	2/23/88
3E—7N			99'	2/23/88	9E—5N	110		81'	1/27/88
4E—6N			88'	2/23/88	9¾E—5N	O.C.	111		
4½E-4 3/4N			70'	1/26/88	10½E—5N	112		71'	1/27/88
5¾E—4½N	84		71'	1/26/88	11E—5N	113		75'	1/27/88
6E—4N	85		62'	1/26/88	11½E—5N	114		71'	1/27/88
6½E—3¾N	86		60'	1/26/88					
7½E—3½N	87		60'	1/26/88					
8E—3½N	~~[illegible]~~	~~[illegible]~~	54'	2/23/88					

88

1985

WELL #	G.P.M.	A.F.	STATIC	PUMPING
3E-6N	2395	1382	N/A	N/A
3E-7N	2220	1358		
4-6N	1778	1264		
4 1/2-4 3/4N	2428	1575		
5 3/4E-4 1/2N	2937	2131		
6E-4N	4206	3208		
6 1/2E-3 3/4N	6869	5862		
7 1/2E-3 1/2N	3797	3010		
8E-3 1/2N	3829	2424		
8E-4 1/4N	4542	3414		
8 1/2E-3 1/2N	2783	1905		
9E-3 1/2N	6083	4210		
9E-4 1/4N	1681	1165		
9 1/2E-3 1/2N	6431	5227		
10E-3 3/4N	5616	3985		
10E-4 1/4N	2993	1274		
10 1/8E-3 1/4N	3900	2256		
10 1/2E-3 1/8N	6127	5184		
11E-3N	5661	3871		
11E-3 3/4N	3100	2271		
11E-4 1/4N	3624	2796		
11 1/2E-3N	6164	2439		
11 3/4E-3 3/4N	4632	2948		
12E-3 1/4N	3868	3078		
12 1/2E-3 3/4N	4783	3981		
SALT CANAL				
5E-5N	2286	1619		
6E-5N	2147	1547		
7E-5N	2764	2016		
7 1/2E-5N	1879	1395		
8E-5N	4196	2412		
9E-5N	4498	3213		
9 3/4E-5N	2109	1519		
10 1/2E-5N	2690	1537		
11E-5N	3141	1982		
11 1/2E-5N	2476	1659		

G.P.M.-------GALLONS PER MINUTE
A.F.----------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

1986

WELL #	C.P.M.	A.F.	STATIC	PUMPING
3E-6N	2416	1914	89	121
3E-7N	2262	2152	99	121
4-6N	2206	1954	88	108
4 1/2-4 3/4N	2440	1551	66	100
5 3/4E-4 1/2N	2978	1894	68	84
6E-4N	4137	3845	60	70
6 1/2E-3 3/4N	5234	4681	56	71
7 1/2E-3 1/2N	3858	3120	54	62
8E-3 1/2N	3886	2326	50	195
8E-4 1/4N	4098	1082	67	81
8 1/2E-3 1/2N	2811	2459	47	64
9E-3 1/2N	6364	5948	48	70
9E-4 1/4N	1611	1377	63	192
9 1/2E-3 1/2N	6024	4915	45	66
10E-3 3/4N	0	1941	49	0
10E-4 1/4N	2908	2271	55	0
10 1/8E-3 1/4N	0	2344	41	0
10 1/2E-3 1/8N	5756	5390	43	0
11E-3N	5566	4638	40	0
11E-3 3/4N	2770	1971	50	0
11E-4 1/4N	3830	3116	60	0
11 1/2E-3N	0	4684	42	0
11 3/4E-3 3/4N	4460	2276	47	0
12E-3 1/4N	3840	3317	47	0
12 1/2E-3 3/4N	4683	4249	51	0
SALT CANAL				
5E-5N	2280	1258	71	0
6E-5N	2405	1421	74	90
7E-5N	2517	1757	77	0
7 1/2E-5N	1895	1474	79	84
8E-5N	3330	2511	80	96
9E-5N	3308	2501	77	94
9 3/4E-5N	2098	1348	78	84
10 1/2E-5N	2737	1418	68	0
11E-5N	3153	1768	73	0
11 1/2E-5N	2448	1317	69	0

G.P.M.-------GALLONS PER MINUTE
A.F.---------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

1987

WELL #	C.P.M.	A.F.	STATIC	PUMPING
3E-6N	2409	2380	N/A	N/A
3E-7N	2308	1653		
4-6N	2262	2060		
4 1/2-4 3/4N	4790	2727		
5 3/4E-4 1/2N	3006	3013		
6E-4N	4144	3161		
6 1/2E-3 3/4N	5439	4398		
7 1/2E-3 1/2N	4183	3418		
8E-3 1/2N	2762	3170		
8E-4 1/4N	4067	2969		
8 1/2E-3 1/2N	2762	2096		
9E-3 1/2N	6038	4264		
9E-4 1/4N	1609	884		
9 1/2E-3 1/2N	6312	1951		
10E-3 3/4N	5296	3883		
10E-4 1/4N	3077	1935		
10 1/8E-3 1/4N	0	0		
10 1/2E-3 1/8N	5849	4567		
11E-3N	5660	4125		
11E-3 3/4N	2887	1755		
11E-4 1/4N	3909	2446		
11 1/2E-3N	5479	3339		
11 3/4E-3 3/4N	5246	3264		
12E-3 1/4N	4550	2968		
12 1/2E-3 3/4N	4790	2727		
SALT CANAL				
5E-5N	1493	838		
6E-5N	2361	1344		
7E-5N	2434	1640		
7 1/2E-5N	1840	1087		
8E-5N	3256	1389		
9E-5N	3279	2219		
9 3/4E-5N	ABANDONED			
10 1/2E-5N	2593	1129		
11E-5N	3235	1839		
11 1/2E-5N	2204	1179		

G.P.M.--------GALLONS PER MINUTE
A.F.----------ANNUAL ACRE FEET PUMPED
STATIC--------STATIC LEVELS
PUMPING-------WATER LEVELS

1988

WELL #	G.P.M.	A.F.	STATIC	PUMPING
3E-6N	2264	2305	86	129
3E-7N	2273	1781	99	130
4-6N	2261	2328	88	118
4 1/2-4 3/4N	3196	2382	70	126
5 3/4E-4 1/2N	3028	2241	71	91
6E-4N	4308	3841	62	77
6 1/2E-3 3/4N	5511	4132	60	83
7 1/2E-3 1/2N	4089	3400	60	79
8E-3 1/2N	4265	3214	54	99
8E-4 1/4N	3948	3036	70	145
8 1/2E-3 1/2N	2968	2213	55	81
9E-3 1/2N	5614	4712	56	95
9E-4 1/4N	1693	991	65	197
9 1/2E-3 1/2N	6493	2990	52	93
10E-3 3/4N	5295	4137	55	69
10E-4 1/4N	3203	2125	59	186
10 1/8E-3 1/4N	1721	1115	50	39
10 1/2E-3 1/8N	5200	4046	51	122
11E-3N	5404	4350	50	78
11E-3 3/4N	2733	1855	55	85
11E-4 1/4N	3774	3017	64	94
11 1/2E-3N	4307	3627	51	95
11 3/4E-3 3/4N	4010	3306	54	95
12E-3 1/4N	4427	3765	54	99
12 1/2E-3 3/4N	4819	4170	55	99
SALT CANAL				
5E-5N	1667	916	71	101
6E-5N	2344	1284	73	97
7E-5N	2455	1225	78	94
7 1/2E-5N	1786	1010	80	97
8E-5N	1915	1071	81	95
9E-5N	3308	1758	81	94
9 3/4E-5N	ABANDONED			
10 1/2E-5N	2555	1411	71	95
11E-5N	3120	1194	75	94
11 1/2E-5N	2475	1410	71	92

G.P.M.-------GALLONS PER MINUTE
A.F.----------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

1989

WELL #	G.P.M.	A.F.	STATIC	PUMPING
3E-6N	2190	2009	92	141
3E-7N	2216	2128	104	142
4-6N	2159	2565	89	121
4 1/2-4 3/4N	4563	3459	71	139
5 3/4E-4 1/2N	2877	3047	73	99
6E-4N	4240	4341	65	85
6 1/2E-3 3/4N	5166	5663	63	91
7 1/2E-3 1/2N	3666	3652	62	89
8E-3 1/2N	3271	5531	58	106
8E-4 1/4N	3584	2809	73	101
8 1/2E-3 1/2N	2778	2280	55	85
9E-3 1/2N	5494	4771	53	110
9E-4 1/4N	1482	1010	68	211
9 1/2E-3 1/2N	6036	5525	52	99
10E-3 3/4N	4793	3825	55	106
10E-4 1/4N	2781	2195	60	180
10 1/8E-3 1/4N	3938	6507	50	127
10 1/2E-3 1/8N	4778	4095	50	116
11E-3N	5121	3005	49	97
11E-3 3/4N	2719	2283	54	93
11E-4 1/4N	3491	2853	64	105
11 1/2E-3N	3831	3313	51	94
11 3/4E-3 3/4N	4121	3501	52	102
12E-3 1/4N	4544	3688	53	107
12 1/2E-3 3/4N	4563	3459	53	95
SALT CANAL				
5E-5N	2171	1434	77	103
6E-5N	2167	1484	78	105
7E-5N	2620	1903	80	101
7 1/2E-5N	1842	1414	82	102
8E-5N	2923	1622	83	114
9E-5N	3766	2861	82	107
9 3/4E-5N	ABANDONED			
10 1/2E-5N	2337	1836	71	111
11E-5N	2875	2102	75	113
11 1/2E-5N	2313	1503	70	94

G.P.M.-------GALLONS PER MINUTE
A.F.---------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

1989

SAMPLE ID: 3E-6N LAB. NO: 181

	RV-ME	RV-%	MG/L
CALCIUM	5.87	26.36	117.60
MAGNESIUM	6.91	31.03	84.00
SODIUM	9.25	41.54	212.70
POTASSIUM	0.21	0.94	8.20
BORON	0.03	0.12	0.30
TOTAL	22.26	100.00	422.80
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.24	17.26	258.64
CHLORIDE	14.44	58.81	512.00
SULFATE	3.50	14.25	168.00
NITRATE	0.27	1.11	16.83
FLUORIDE	2.11	8.57	40.00
PHOSPHATE	0.00	0.00	0.02
TOTAL	24.55	100.00	864.00
CONDUCTIVITY	2.30		
PH	7.40		
TDS	1286.80		
TH	639.39		
NC HARDNESS	324.02		
ALKALINITY	315.38		
% SODIUM	41.54		

1988

SAMPLE ID: 3E-6N LAB. NO: 143

	RV-ME	RV-%	MG/L
CALCIUM	6.24	27.23	125.00
MAGNESIUM	7.11	31.06	86.50
SODIUM	9.32	40.68	214.30
POTASSIUM	0.20	0.86	7.74
BORON	0.04	0.16	0.39
TOTAL	22.90	100.00	433.93
CARBONATE	0.00	0.00	0.00
BICARBONATE	3.40	14.56	207.40
CHLORIDE	15.79	67.64	560.00
SULFATE	2.94	12.57	141.00
NITRATE	1.20	5.13	74.20
FLUORIDE	0.02	0.10	0.45
PHOSPHATE	0.00	0.00	0.01
TOTAL	23.35	100.00	877.62

CONDUCTIVITY	2100.00
PH	7.40
TDS	1311.55
TH	668.16
NC HARDNESS	415.26
ALKALINITY	252.90
% SODIUM	40.68

1987

SAMPLE ID: 3E 6N LAB NO: 236

	RV-ME	RV-%	MG/L
CALCIUM	5.89	27.92	118.00
MAGNESIUM	5.99	28.38	72.80
SODIUM	9.06	42.94	208.30
POTASSIUM	0.13	0.62	5.15
BORON	0.03	0.14	0.32
TOTAL	21.09	100.00	404.57
CARBONATE	0.00	0.00	0.00
BICARBONATE	3.52	16.29	214.72
CHLORIDE	14.10	65.27	500.00
SULFATE	2.80	12.97	134.56
NITRATE	1.14	5.29	70.88
FLUORIDE	0.04	0.18	.75
PHOSPHATE	0.00	0.00	0.00
TOTAL	21.60	100.00	811.75

CONDUTIVITY	2100.00
PH	7.40
TDS	1216.31
TH	594.29
NC HARDNESS	1001.03
ALKALINITY	261.82
% SODIUM	42.94

1986

SAMPLE ID:	3E 6N	LAB NO:	441
	RV-ME	RV-%	MG/L
CALCIUM	6.24	28.46	125.00
MAGNESIUM	6.72	30.67	81.75
SODIUM	8.75	39.91	201.20
POTASSIUM	0.18	0.81	6.90
BORON	0.03	0.15	0.36
TOTAL	21.92	100.00	415.21
CARBONATE	0.00	0.00	0.00
BICARBONATE	3.60	16.04	219.60
CHLORIDE	14.83	66.11	526.00
SULFATE	2.88	12.83	138.24
NITRATE	1.10	4.90	68.11
FLUORIDE	0.03	0.12	0.50
PHOSPHATE	0.00	0.00	0.03
TOTAL	22.44	100.00	840.83

CONDUCTIVITY	2090.00
PH	7.50
TDS	1256.04
TH	648.61
NC HARDNESS	380.84
ALKALINITY	267.77
% SODIUM	39.91

X94 - 900
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Salt River Project
Water Analysis

Laboratory No. 69

MAR 01 1985

Description of Sample 3 E-6 N

Date Sampled _____ Time _____ Temp _____ Discharge _____

Date Analyzed _____ Analyzed By _____ Collected By _____

MAR 01 1985

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	6.47	26.61	130	20.04
Magnesium	Mg	6.99	28.73	85	12.16
Sodium	Na	10.61	43.60	244	23.00
Potassium	K	0.22	0.91	8.62	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.04	0.15	0.38	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		24.33		467.75	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	3.44	14.53	210	61.02
Chloride	Cl	15.28	64.57	542	35.46
Sulfate	SO_4	3.84	16.21	184	48.03
Nitrate	NO_3	1.04	4.47	66	62.01
Fluoride	F	0.05	0.22	1.00	19.00
Phosphate	PO_4	0.00	0.00	0.03	31.66
TOTAL ANIONS		23.67		896.05	

Conductivity 25° C K = 2570 x 10^{-6}

pH 7.8

Total Dissolved Solids mg per liter 1364

Total Hardness mg per liter 674

Non Carbonate Hardness mg per liter 418

Alkalinity as $CaCO_3$ mg per liter 256

% Sodium 43.60

1985

SAMPLE ID:	3E 6 1/2N	LAB NO:	288
	RV-ME	RV-%	MG/L
CALCIUM	7.92	31.75	158.75
MAGNESIUM	7.75	31.06	94.25
SODIUM	9.06	36.29	208.30
POTASSIUM	0.19	0.77	7.50
BORON	0.03	0.13	0.35
TOTAL	24.95	100.00	469.15
CARBONATE	0.00	0.00	0.00
BICARBONATE	3.44	13.57	209.84
CHLORIDE	15.62	61.65	554.00
SULFATE	3.72	14.67	178.56
NITRATE	2.53	10.00	157.08
FLUORIDE	0.03	0.11	0.55
PHOSPHATE	0.00	0.01	0.03
TOTAL	25.34	100.00	993.38

CONDUCTIVITY	2250.00
PH	7.40
TDS	1462.53
TH	784.33
NC HARDNESS	528.46
ALKALINITY	255.87
% SODIUM	36.29

1989

SAMPLE ID: 3E-7N LAB. NO: 183

	RV-ME	RV-%	MG/L
CALCIUM	7.87	33.16	157.70
MAGNESIUM	7.24	30.50	88.00
SODIUM	8.36	35.23	192.30
POTASSIUM	0.20	0.84	7.80
BORON	0.06	0.27	0.70
TOTAL	23.73	100.00	446.50
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.80	21.07	292.80
CHLORIDE	13.82	60.68	490.00
SULFATE	4.00	17.56	192.00
NITRATE	0.11	0.49	6.92
FLUORIDE	0.04	0.19	0.83
PHOSPHATE	0.00	0.01	0.05
TOTAL	22.77	100.00	833.74
CONDUCTIVITY	2.40		
PH	7.30		
TDS	1280.24		
TH	755.98		
NC HARDNESS	398.96		
ALKALINITY	357.03		
% SODIUM	35.23		

1988

SAMPLE ID: 3E-7N LAB. NO: 145

	RV-ME	RV-%	MG/L
CALCIUM	7.57	34.07	151.75
MAGNESIUM	7.44	33.48	90.50
SODIUM	6.99	31.43	160.70
POTASSIUM	0.18	0.79	6.88
BORON	0.05	0.23	0.55
TOTAL	22.23	100.00	410.38
CARBONATE	0.00	0.00	0.00
BICARBONATE	3.72	16.53	226.92
CHLORIDE	13.40	59.53	475.00
SULFATE	3.25	14.43	156.00
NITRATE	2.12	9.41	131.24
FLUORIDE	0.02	0.10	0.42
PHOSPHATE	0.00	0.02	0.03
TOTAL	22.52	100.00	874.24

CONDUCTIVITY	2000.00
PH	7.30
TDS	1284.62
TH	751.42
NC HARDNESS	474.72
ALKALINITY	276.77
% SODIUM	31.43

1987

SAMPLE ID: 3E 7N LAB NO: 214

	RV-ME	RV-%	MG/L
CALCIUM	8.00	35.05	160.40
MAGNESIUM	6.58	28.81	80.00
SODIUM	8.02	35.13	184.50
POTASSIUM	0.17	0.74	6.62
BORON	0.06	0.26	0.65
TOTAL	22.83	100.00	432.17
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.72	19.90	287.92
CHLORIDE	14.16	59.72	502.00
SULFATE	2.95	12.43	141.52
NITRATE	1.86	7.84	115.18
FLUORIDE	0.03	0.11	.51
PHOSPHATE	0.00	0.00	0.03
TOTAL	23.71	100.00	900.78

CONDUTIVITY	2000.00
PH	7.40
TDS	1332.95
TH	729.80
NC HARDNESS	1001.03
ALKALINITY	351.08
% SODIUM	35.13

1986

SAMPLE ID:	GE 7N	LAB NO:	443
	RV-ME	RV-%	MG/L
CALCIUM	8.08	33.20	162.00
MAGNESIUM	7.81	32.08	95.00
SODIUM	8.22	33.75	189.00
POTASSIUM	0.18	0.72	6.90
BORON	0.06	0.24	0.64
TOTAL	24.35	100.00	453.54
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.72	19.48	287.92
CHLORIDE	13.82	57.04	490.00
SULFATE	3.78	15.59	181.44
NITRATE	1.89	7.79	116.97
FLUORIDE	0.02	0.10	0.44
PHOSPHATE	0.00	0.01	0.04
TOTAL	22.23	100.00	930.43

CONDUCTIVITY	2200.00
PH	7.60
TDS	1383.97
TH	795.53
NC HARDNESS	444.45
ALKALINITY	351.08
% SODIUM	33.75

1985

SAMPLE ID:	3E 7N	LAB NO:	138
	RV-ME	RV-%	MG/L
CALCIUM	7.92	32.64	158.75
MAGNESIUM	7.30	30.07	88.75
SODIUM	8.80	36.26	202.40
POTASSIUM	0.20	0.82	7.81
BORON	0.05	0.20	0.54
TOTAL	24.27	100.00	458.25
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.24	16.78	258.64
CHLORIDE	15.12	59.83	536.00
SULFATE	3.60	14.24	172.80
NITRATE	2.28	9.02	141.20
FLUORIDE	0.03	0.12	0.56
PHOSPHATE	0.00	0.01	0.11
TOTAL	25.26	100.00	977.88

CONDUCTIVITY	2190.00
PH	7.40
TDS	1436.00
TH	762.00
NC HARDNESS	446.00
ALKALINITY	315.00
% SODIUM	36.26

1989

SAMPLE ID: 4E-6N LAB. NO: 184

	RV-ME	RV-%	MG/L
CALCIUM	6.31	26.73	126.40
MAGNESIUM	6.58	27.89	80.00
SODIUM	10.48	44.41	241.00
POTASSIUM	0.19	0.79	7.30
BORON	0.04	0.18	0.45
TOTAL	23.59	100.00	455.15
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.60	21.58	341.60
CHLORIDE	15.40	59.36	546.00
SULFATE	4.62	17.82	222.00
NITRATE	0.31	1.20	19.27
FLUORIDE	0.01	0.04	0.20
PHOSPHATE	0.00	0.00	0.03
TOTAL	25.94	100.00	955.43
CONDUCTIVITY	2.50		
PH	7.30		
TDS	1410.58		
TH	644.90		
NC HARDNESS	228.37		
ALKALINITY	416.53		
% SODIUM	44.41		

1988

1988

SAMPLE ID: 4E-6N LAB. NO: 146

	RV-ME	RV-%	MG/L
CALCIUM	6.03	24.88	120.75
MAGNESIUM	7.11	29.37	86.50
SODIUM	10.87	44.88	250.00
POTASSIUM	0.16	0.68	6.45
BORON	0.05	0.20	0.52
TOTAL	24.22	100.00	464.22
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.68	19.00	285.48
CHLORIDE	14.81	60.13	525.00
SULFATE	3.44	13.95	165.00
NITRATE	1.67	6.78	103.55
FLUORIDE	0.03	0.13	0.59
PHOSPHATE	0.00	0.00	0.02
TOTAL	24.62	100.00	934.50
CONDUCTIVITY	2300.00		
PH	7.30		
TDS	1398.72		
TH	657.55		
NC HARDNESS	309.44		
ALKALINITY	348.10		
% SODIUM	44.88		

1987

SAMPLE ID: 4E 6N LAB NO: 247

	RV-ME	RV-%	MG/L
CALCIUM	5.49	24.30	110.40
MAGNESIUM	5.67	25.12	69.00
SODIUM	11.29	49.97	259.60
POTASSIUM	0.09	0.42	3.68
BORON	0.04	0.20	0.49
TOTAL	22.59	100.00	442.77
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.80	20.71	292.80
CHLORIDE	14.61	63.03	518.00
SULFATE	2.26	9.75	108.58
NITRATE	1.50	6.47	93.03
FLUORIDE	0.01	0.03	.12
PHOSPHATE	0.00	0.01	0.04
TOTAL	23.17	100.00	863.71

CONDUTIVITY	2300.00
PH	7.40
TDS	1306.47
TH	558.67
NC HARDNESS	1001.03
ALKALINITY	357.03
% SODIUM	49.97

1986

SAMPLE ID:	42 6N	LAB NO:	591
	RV-ME	RV-%	MG/L
CALCIUM	5.51	24.53	110.50
MAGNESIUM	6.17	27.43	75.00
SODIUM	10.61	47.19	244.00
POTASSIUM	0.15	0.66	5.83
BORON	0.04	0.19	0.47
TOTAL	22.48	100.00	435.80
CARBONATE	0.00	0.00	0.00
BICARBONATE	4.48	19.75	273.28
CHLORIDE	13.25	58.46	470.00
SULFATE	2.99	13.21	143.84
NITRATE	1.92	8.47	119.06
FLUORIDE	0.02	0.10	0.43
PHOSPHATE	0.00	0.00	0.02
TOTAL	22.67	100.00	867.69

CONDUCTIVITY	2190.00
PH	7.40
TDS	1303.48
TH	584.62
NC HARDNESS	251.39
ALKALINITY	333.23
% SODIUM	47.19

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 70

Description of Sample 4 E 6 N

Date Sampled _____ Time _____ Temp _____ Discharge MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	6.00	20.15	120	20.04
Magnesium	Mg	6.99	23.47	85	12.16
Sodium	Na	16.57	55.63	381	23.00
Potassium	K	0.15	0.52	6.03	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.07	0.23	0.73	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		29.78		593.01	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	6.40	21.58	390	61.02
Chloride	Cl	16.58	55.94	588	35.46
Sulfate	SO_4	5.16	17.40	248	48.03
Nitrate	NO_3	1.47	4.95	91	62.01
Fluoride	F	0.04	0.12	0.70	19.00
Phosphate	PO_4	0.00	0.00	0.02	31.66
TOTAL ANIONS		29.64		1119.29	

Conductivity	25° C	K = 2980	x 10^{-6}
pH		7.9	
Total Dissolved Solids		mg per liter	1712
Total Hardness		mg per liter	650
Non Carbonate Hardness		mg per liter	174
Alkalinity as $CaCO_3$		mg per liter	476
% Sodium			55.63

1989

SAMPLE ID: 4 1/2E-4 3/4 LAB. NO: 185

	RV-ME	RV-%	MG/L
CALCIUM	6.31	23.73	126.40
MAGNESIUM	5.10	19.18	62.00
SODIUM	14.93	56.19	343.50
POTASSIUM	0.17	0.63	6.50
BORON	0.07	0.27	0.76
TOTAL	26.58	100.00	539.16
CARBONATE	0.00	0.00	0.00
BICARBONATE	6.96	24.06	424.56
CHLORIDE	15.17	52.47	538.00
SULFATE	6.50	22.46	312.00
NITRATE	0.22	0.77	13.73
FLUORIDE	0.07	0.24	1.33
PHOSPHATE	0.00	0.00	0.02
TOTAL	28.92	100.00	1073.80
CONDUCTIVITY	2.80		
PH	7.40		
TDS	1612.96		
TH	570.81		
NC HARDNESS	53.12		
ALKALINITY	517.69		
% SODIUM	56.19		

1988

SAMPLE ID: 41/2E-43/4N LAB. NO: 148

	RV-ME	RV-%	MG/L
CALCIUM	4.99	17.12	100.00
MAGNESIUM	5.14	17.63	62.50
SODIUM	18.81	64.54	432.70
POTASSIUM	0.13	0.45	5.16
BORON	0.07	0.25	0.90
TOTAL	29.15	100.00	601.16
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.04	27.18	490.44
CHLORIDE	15.23	51.49	540.00
SULFATE	4.87	16.47	234.00
NITRATE	1.40	4.74	86.94
FLUORIDE	0.04	0.12	0.68
PHOSPHATE	0.00	0.00	0.01
TOTAL	29.58	100.00	1102.74

CONDUCTIVITY	2600.00
PH	7.20
TDS	1703.90
TH	506.95
NC HARDNESS	0.00
ALKALINITY	598.02
% SODIUM	64.54

1987

SAMPLE ID: 4 1/2E 4 3/4N LAB NO: 229

	RV-ME	RV-%	MG/L
CALCIUM	4.79	17.97	96.00
MAGNESIUM	4.11	15.43	50.00
SODIUM	17.56	65.88	403.80
POTASSIUM	0.09	0.35	3.68
BORON	0.10	0.37	1.06
TOTAL	26.65	100.00	554.54
CARBONATE	0.00	0.00	0.00
BICARBONATE	7.84	29.10	478.24
CHLORIDE	15.28	56.76	542.00
SULFATE	2.46	9.15	118.32
NITRATE	1.30	4.84	80.85
FLUORIDE	0.04	0.15	.77
PHOSPHATE	0.00	0.00	0.01
TOTAL	26.93	100.00	977.05

CONDUTIVITY	2600.00
PH	7.40
TDS	1531.59
TH	445.51
NC HARDNESS	1001.03
ALKALINITY	583.15
% SODIUM	65.88

1986

SAMPLE ID: 4 1/2E 4 3/4N LAB NO: 445

	RV-ME	RV-%	MG/L
CALCIUM	4.95	16.30	99.25
MAGNESIUM	5.14	16.91	62.50
SODIUM	20.07	66.03	461.50
POTASSIUM	0.13	0.44	5.19
BORON	0.10	0.33	1.07
TOTAL	30.39	100.00	629.51
CARBONATE	0.00	0.00	0.00
BICARBONATE	8.64	27.89	527.04
CHLORIDE	16.02	51.72	568.00
SULFATE	4.80	15.49	230.40
NITRATE	1.49	4.80	92.10
FLUORIDE	0.03	0.10	0.59
PHOSPHATE	0.00	0.00	0.03
TOTAL	30.97	100.00	1150.22

CONDUCTIVITY	2700.00
PH	7.50
TDS	1779.73
TH	505.08
NC HARDNESS	0.00
ALKALINITY	642.65
% SODIUM	66.03

X94 - 900
REV. 5/77

Salt River Project
Water Analysis

Laboratory No. 71

Description of Sample 4 1/2 E-4 3/4 N

Date Sampled _____ Time _____ Temp _____ Discharge MAR 01 1985

Date Analyzed _____ Analyzed By _____ Collected By _____

	Symbol	Reacting Value - M.E.	% Reacting Value	mg per liter	Combining Weight
CATIONS					
Calcium	Ca	5.78	16.91	116	20.04
Magnesium	Mg	5.61	16.43	68	12.16
Sodium	Na	22.53	65.96	518	23.00
Potassium	K	0.13	0.39	5.17	39.10
Iron	Fe				55.85
Arsenic	As				74.92
Boron	B	0.11	0.31	1.15	10.81
Aluminum	Al				26.98
Silica	SiO_2				60.09
Mercury	Hg				200.59
Manganese	Mn				54.94
Copper	Cu				63.54
Zinc	Zn				65.37
Silver	Ag				107.87
TOTAL CATIONS		34.16		708.57	
ANIONS					
Carbonate	CO_3	0.00	0.00	0	30.00
Bicarbonate	HCO_3	8.16	23.43	498	61.02
Chloride	Cl	19.01	54.59	674	35.46
Sulfate	SO_4	6.36	18.25	305	48.03
Nitrate	NO_3	1.23	3.53	76	62.01
Fluoride	F	0.07	0.20	1.30	19.00
Phosphate	PO_4	0.00	0.00	0.03	31.66
TOTAL ANIONS		34.82		1301.59	

Conductivity 25° C K = 3420 x 10^{-6}

pH 7.8

Total Dissolved Solids mg per liter 2010

Total Hardness mg per liter 570

Non Carbonate Hardness mg per liter 0

Alkalinity as $CaCO_3$ mg per liter 607

% Sodium 65.96

1989 RID#

SAMPLE ID: 12 1/2E-3 3/4 N LAB. NO: 219

	RV-ME	RV-%	MG/L
CALCIUM	2.64	20.91	52.90
MAGNESIUM	1.48	11.73	18.00
SODIUM	8.33	66.02	191.70
POTASSIUM	0.13	1.03	5.10
BORON	0.04	0.31	0.43
TOTAL	12.62	100.00	268.13
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.12	42.46	312.32
CHLORIDE	5.53	45.85	196.00
SULFATE	1.31	10.88	63.00
NITRATE	0.05	0.40	2.99
FLUORIDE	0.05	0.41	0.93
PHOSPHATE	0.00	0.01	0.03
TOTAL	12.06	100.00	416.49
CONDUCTIVITY	1.23		
PH	7.50		
TDS	684.61		
TH	206.18		
NC HARDNESS	0.00		
ALKALINITY	380.83		
% SODIUM	66.02		

1988

RID #

SAMPLE ID: 121/26-33/4N LAB. NO: 172

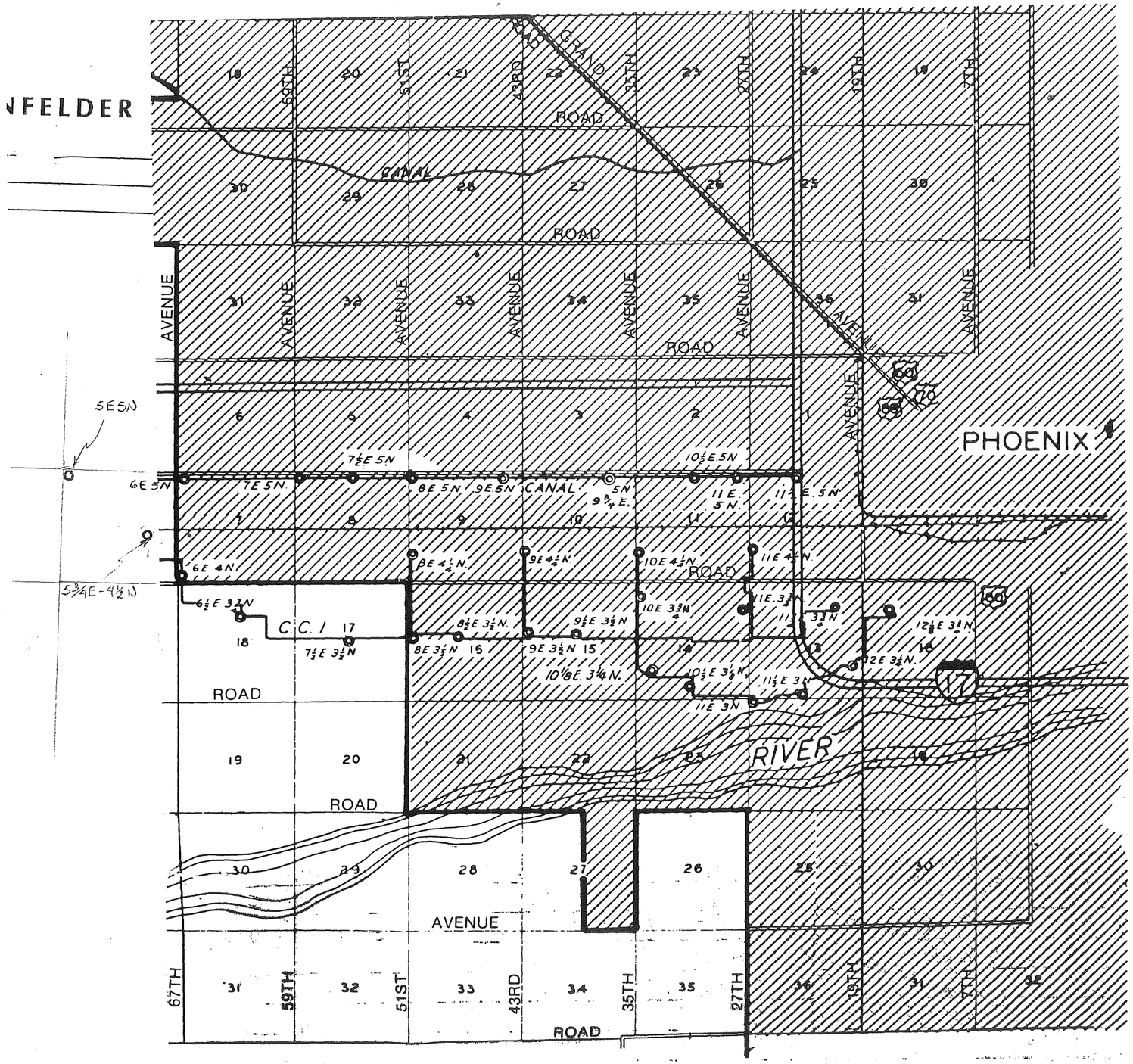
	RV-ME	RV-%	MG/L
CALCIUM	3.12	23.65	62.50
MAGNESIUM	1.64	12.47	20.00
SODIUM	8.28	62.82	190.50
POTASSIUM	0.12	0.92	4.73
BORON	0.02	0.13	0.19
TOTAL	13.18	100.00	277.92
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.44	41.87	331.84
CHLORIDE	5.53	42.56	196.00
SULPHATE	1.62	12.50	78.00
NITRATE	0.37	2.85	22.98
FLUORIDE	0.03	0.20	0.49
PHOSPHATE	0.00	0.02	0.07
TOTAL	12.99	100.00	460.57
CONDUCTIVITY	1200.00		
PH	7.60		
TDS	738.59		
TH	236.38		
NC HARDNESS	0.00		
ALKALINITY	404.63		
% SODIUM	62.82		

1987

SAMPLE ID: 12 1/2E 3 3/4N LAB NO: 255

	RV-ME	RV-%	MG/L
CALCIUM	3.80	31.56	76.20
MAGNESIUM	1.40	11.60	17.00
SODIUM	6.73	55.86	154.80
POTASSIUM	0.06	0.47	2.21
BORON	0.06	0.51	0.66
TOTAL	12.05	100.00	250.87
CARBONATE	0.00	0.00	0.00
BICARBONATE	5.36	43.75	326.96
CHLORIDE	4.91	40.07	174.00
SULFATE	1.70	13.88	81.66
NITRATE	.27	2.20	16.72
FLUORIDE	0.01	0.09	0.20
PHOSPHATE	0.00	0.01	0.04
TOTAL	12.25	100.00	433.36

CONDUTIVITY	1200.00
PH	7.50
TDS	684.23
TH	260.24
NC HARDNESS	1001.03
ALKALINITY	398.68
% SODIUM	55.86


NFELDER
ROAD
CANAL
ROAD
ROAD
AVENUE
AVENUE
AVENUE
AVENUE
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AVENUE
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AVENUE
PHOENIX
5E 5N
6E 5N
7E 5N
7½E 5N
8E 5N
9E 5N
CANAL
5N 9¾E.
10½E 5N
11E 5N
11½E 5N
6E 4N
8E 4¼N.
9E 4¼N.
10E 4¼N
11E 4¼N
5¾E-4½N
6½E 3¾N
C.C. 1
17
18
7½E 3½N
8E 3½N 16
8½E 3½N.
9½E 3½N
9E 3½N 15
10E 3¾N
11E 3¾N
10⅛E 3¼N.
10½E 3½N
11½E 3N
11E 3N
12⅛E 3¼N.
12E 3¼N.
ROAD
ROAD
RIVER
AVENUE
67TH
59TH
51ST
43RD
35TH
27TH
19TH
11TH
ROAD

R. 2 E.

Acre Feet Pumped per Year

RID ID #	1985	1986	1987	1988	1989	Minimum	Maximum	Total
RID WELL # 84	2131	1894	3013	2241	3047	1894	3047	12326
RID WELL # 85	3208	3845	3161	3841	4341	3161	4341	18396
RID WELL # 86	5862	4681	4398	4132	5663	4132	5862	24736
RID WELL # 87	3010	3120	3418	3400	3652	3010	3652	16600
RID WELL # 88	2424	2326	3170	3214	5531	2326	5531	16665
RID WELL # 89	3414	1082	2969	3036	2809	1082	3414	13310
RID WELL # 90	1905	2459	2096	2213	2280	1905	2459	10953
RID WELL # 91	4210	5948	4264	4712	4771	4210	5948	23905
RID WELL # 92	1165	1377	884	991	1010	884	1377	5427
RID WELL # 93	5227	4915	1951	2990	5525	1951	5525	20608
RID WELL # 94	3985	1941	3883	4137	3825	1941	4137	17771
RID WELL # 95	1274	2217	1935	2125	2195	1274	2217	9746
RID WELL # 96	2256	2344	0	1115	6507	0	6507	12222
RID WELL # 97	5184	5390	4567	4046	4095	4046	5390	23282
RID WELL # 98	3871	4638	4125	4350	3005	3005	4638	19989
RID WELL # 99	2271	1971	1755	1855	2283	1755	2283	10135
RID WELL # 100	2796	3116	2446	3017	2853	2446	3116	14228
RID WELL # 101	2439	4684	3339	3627	3313	2439	4684	17402
RID WELL # 102	2948	2276	3264	3306	3501	2276	3501	15295
RID WELL # 103	3078	3317	2968	3765	3688	2968	3765	16816
RID WELL # 104	3981	4249	2727	4170	3459	2727	4249	18586
RID WELL # 105	1619	1258	838	916	1434	838	1619	6065
RID WELL # 106	1547	1421	1344	1284	1484	1284	1547	7080
RID WELL # 107	2016	1757	1640	1225	1903	1225	2016	8541
RID WELL # 108	1395	1474	1087	1010	1414	1010	1474	6380
RID WELL # 109	2412	2511	1389	1071	1622	1071	2511	9005
RID WELL # 110	3213	2501	2219	1758	2861	1758	3213	12552
RID WELL # 111	1519	1348	0	0	0	0	1519	2867
RID WELL # 112	1537	1418	1129	1411	1836	1129	1836	7331
RID WELL # 113	1982	1768	1839	1194	2120	1194	2120	8903
RID WELL # 114	1659	1317	1179	1410	1503	1179	1659	7068
Yearly Totals	85538	84563	72997	77562	93530			

Circle Sizes in Inches and Eighths (diameters)
1" = 2000 AF/yr)

RID ID #	1985		1986		1987		1988		1989	
RID WELL # 84	1	1	0	8	1	4	1	1	1	4
RID WELL # 85	1	5	1	7	1	5	1	7	2	1
RID WELL # 86	2	7	2	3	2	2	2	1	2	7
RID WELL # 87	1	4	1	4	1	6	1	6	1	7
RID WELL # 88	1	2	1	1	1	5	1	5	2	6
RID WELL # 89	1	6	0	4	1	4	1	4	1	3
RID WELL # 90	0	8	1	2	1	0	1	1	1	1
RID WELL # 91	2	1	2	8	2	1	2	3	2	3
RID WELL # 92	0	5	0	6	0	4	0	4	0	4
RID WELL # 93	2	5	2	4	0	8	1	4	2	6
RID WELL # 94	1	8	0	8	1	8	2	1	1	7
RID WELL # 95	0	5	1	1	0	8	1	1	1	1
RID WELL # 96	1	1	1	1	0	0	0	4	3	2
RID WELL # 97	2	5	2	6	2	2	2	0	2	0
RID WELL # 98	1	7	2	3	2	1	2	1	1	4
RID WELL # 99	1	1	0	8	0	7	0	7	1	1
RID WELL # 100	1	3	1	4	1	2	1	4	1	3
RID WELL # 101	1	2	2	3	1	5	1	7	1	5
RID WELL # 102	1	4	1	1	1	5	1	5	1	6
RID WELL # 103	1	4	1	5	1	4	1	7	1	7
RID WELL # 104	1	8	2	1	1	3	2	1	1	6
RID WELL # 105	0	6	0	5	0	3	0	4	0	6
RID WELL # 106	0	6	0	6	0	5	0	5	0	6
RID WELL # 107	1	0	0	7	0	7	0	5	0	8
RID WELL # 108	0	6	0	6	0	4	0	4	0	6
RID WELL # 109	1	2	1	2	0	6	0	4	0	6
RID WELL # 110	1	5	1	2	1	1	0	7	1	3
RID WELL # 111	0	6	0	5	0	0	0	0	0	0
RID WELL # 112	0	6	0	6	0	5	0	6	0	7
RID WELL # 113	0	8	0	7	0	7	0	5	1	0
RID WELL # 114	0	7	0	5	0	5	0	6	0	6

Acre Feet Pumped per Year

RID ID #	1985	1986	1987	1988	1989	Total
RID WELL # 84	2131	1894	3013	2241	3047	12326
RID WELL # 85	3208	3845	3161	3841	4341	18396
RID WELL # 86	5862	4681	4398	4132	5663	24736
RID WELL # 87	3010	3120	3418	3400	3652	16600
RID WELL # 88	2424	2326	3170	3214	5531	16665
RID WELL # 89	3414	1082	2969	3036	2809	13310
RID WELL # 90	1905	2459	2096	2213	2280	10953
RID WELL # 91	4210	5948	4264	4712	4771	23905
RID WELL # 92	1165	1377	884	991	1010	5427
RID WELL # 93	5227	4915	1951	2990	5525	20608
RID WELL # 94	3985	1941	3883	4137	3825	17771
RID WELL # 95	1274	2217	1935	2125	2195	9746
RID WELL # 96	2256	2344	0	1115	6507	12222
RID WELL # 97	5184	5390	4567	4046	4095	23282
RID WELL # 98	3871	4638	4125	4350	3005	19989
RID WELL # 99	2271	1971	1755	1855	2283	10135
RID WELL # 100	2796	3116	2446	3017	2853	14228
RID WELL # 101	2439	4684	3339	3627	3313	17402
RID WELL # 102	2948	2276	3264	3306	3501	15295
RID WELL # 103	3078	3317	2968	3765	3688	16816
RID WELL # 104	3981	4249	2727	4170	3459	18586
RID WELL # 105	1619	1258	838	916	1434	6065
RID WELL # 106	1547	1421	1344	1284	1484	7080
RID WELL # 107	2016	1757	1640	1225	1903	8541
RID WELL # 108	1395	1474	1087	1010	1414	6380
RID WELL # 109	2412	2511	1389	1071	1622	9005
RID WELL # 110	3213	2501	2219	1758	2861	12552
RID WELL # 111	1519	1348	0	0	0	2867
RID WELL # 112	1537	1418	1129	1411	1836	7331
RID WELL # 113	1982	1768	1839	1194	2120	8903
RID WELL # 114	1659	1317	1179	1410	1503	7068
Yearly Totals	85538	84563	72997	77562	93530	

1985

WELL #	G.P.M.	A.F.	STATIC	PUMPING
3E-6N	2395	1382	N/A	N/A
3E-7N	2220	1358		
4-6N	1778	1264		
4 1/2-4 3/4N	2428	1575		
84 5 3/4E-4 1/2N	2937	2131		
85 6E-4N	4206	3208		
86 6 1/2E-3 3/4N	6869	5862		
87 7 1/2E-3 1/2N	3797	3010		
88 8E-3 1/2N	3829	2424		
89 8E-4 1/4N	4542	3414		
90 8 1/2E-3 1/2N	2783	1905		
91 9E-3 1/2N	6083	4210		
92 9E-4 1/4N	1681	1165		
93 9 1/2E-3 1/2N	6431	5227		
94 10E-3 3/4N	5616	3985		
95 10E-4 1/4N	2993	1274		
96 10 1/8E-3 1/4N	3900	2256		
97 10 1/2E-3 1/8N	6127	5184		
98 11E-3N	5661	3871		
99 11E-3 3/4N	3100	2271		
100 11E-4 1/4N	3624	2796		
101 11 1/2E-3N	6164	2439		
102 11 3/4E-3 3/4N	4632	2948		
103 12E-3 1/4N	3868	3078		
104 12 1/2E-3 3/4N	4783	3981		
SALT CANAL				
105 5E-5N	2286	1619		
106 6E-5N	2147	1547		
107 7E-5N	2764	2016		
108 7 1/2E-5N	1879	1395		
109 8E-5N	4196	2412		
110 9E-5N	4498	3213		
111 9 3/4E-5N	2109	1519		
112 10 1/2E-5N	2690	1537		
113 11E-5N	3141	1982		
114 11 1/2E-5N	2476	1659		

G.P.M.-------GALLONS PER MINUTE
A.F.----------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

1986

WELL #	C.P.M.	A.F.	STATIC	PUMPING
3E-6N	2416	1914	89	121
3E-7N	2262	2152	99	121
4-6N	2206	1954	88	108
4 1/2-4 3/4N	2440	1551	66	100
5 3/4E-4 1/2N	2978	1894	68	84
6E-4N	4137	3845	60	70
6 1/2E-3 3/4N	5234	4681	56	71
7 1/2E-3 1/2N	3858	3120	54	62
8E-3 1/2N	3886	2326	50	195
8E-4 1/4N	4098	1082	67	81
8 1/2E-3 1/2N	2811	2459	47	64
9E-3 1/2N	6364	5948	48	70
9E-4 1/4N	1611	1377	63	192
9 1/2E-3 1/2N	6024	4915	45	66
10E-3 3/4N	0	1941	49	0
10E-4 1/4N	2908	2271	55	0
10 1/8E-3 1/4N	0	2344	41	0
10 1/2E-3 1/8N	5756	5390	43	0
11E-3N	5566	4638	40	0
11E-3 3/4N	2770	1971	50	0
11E-4 1/4N	3830	3116	60	0
11 1/2E-3N	0	4684	42	0
11 3/4E-3 3/4N	4460	2276	47	0
12E-3 1/4N	3840	3317	47	0
12 1/2E-3 3/4N	4683	4249	51	0
SALT CANAL				
5E-5N	2280	1258	71	0
6E-5N	2405	1421	74	90
7E-5N	2517	1757	77	0
7 1/2E-5N	1895	1474	79	84
8E-5N	3330	2511	80	96
9E-5N	3308	2501	77	94
9 3/4E-5N	2098	1348	78	84
10 1/2E-5N	2737	1418	68	0
11E-5N	3153	1768	73	0
11 1/2E-5N	2448	1317	69	0

G.P.M.-------GALLONS PER MINUTE
A.F.---------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

1987

WELL #	C.P.M.	A.F.	STATIC	PUMPING
3E-6N	2409	2380	N/A	N/A
3E-7N	2308	1653		
4-6N	2262	2060		
4 1/2-4 3/4N	4790	2727		
5 3/4E-4 1/2N	3006	3013		
6E-4N	4144	3161		
6 1/2E-3 3/4N	5439	4398		
7 1/2E-3 1/2N	4183	3418		
8E-3 1/2N	2762	3170		
8E-4 1/4N	4067	2969		
8 1/2E-3 1/2N	2762	2096		
9E-3 1/2N	6038	4264		
9E-4 1/4N	1609	884		
9 1/2E-3 1/2N	6312	1951		
10E-3 3/4N	5296	3883		
10E-4 1/4N	3077	1935		
10 1/8E-3 1/4N	0	0		
10 1/2E-3 1/8N	5849	4567		
11E-3N	5660	4125		
11E-3 3/4N	2887	1755		
11E-4 1/4N	3909	2446		
11 1/2E-3N	5479	3339		
11 3/4E-3 3/4N	5246	3264		
12E-3 1/4N	4550	2968		
12 1/2E-3 3/4N	4790	2727		
SALT CANAL				
5E-5N	1493	838		
6E-5N	2361	1344		
7E-5N	2434	1640		
7 1/2E-5N	1840	1087		
8E-5N	3256	1389		
9E-5N	3279	2219		
9 3/4E-5N	ABANDONED			
10 1/2E-5N	2593	1129		
11E-5N	3235	1839		
11 1/2E-5N	2204	1179		

G.P.M.-------GALLONS PER MINUTE
A.F.---------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

1988

WELL #	G.P.M.	A.F.	STATIC	PUMPING
3E-6N	2264	2305	86	129
3E-7N	2273	1781	99	130
4-6N	2261	2328	88	118
4 1/2-4 3/4N	3196	2382	70	126
5 3/4E-4 1/2N	3028	2241	71	91
6E-4N	4308	3841	62	77
6 1/2E-3 3/4N	5511	4132	60	83
7 1/2E-3 1/2N	4089	3400	60	79
8E-3 1/2N	4265	3214	54	99
8E-4 1/4N	3948	3036	70	145
8 1/2E-3 1/2N	2968	2213	55	81
9E-3 1/2N	5614	4712	56	95
9E-4 1/4N	1693	991	65	197
9 1/2E-3 1/2N	6493	2990	52	93
10E-3 3/4N	5295	4137	55	69
10E-4 1/4N	3203	2125	59	186
10 1/8E-3 1/4N	1721	1115	50	39
10 1/2E-3 1/8N	5200	4046	51	122
11E-3N	5404	4350	50	78
11E-3 3/4N	2733	1855	55	85
11E-4 1/4N	3774	3017	64	94
11 1/2E-3N	4307	3627	51	95
11 3/4E-3 3/4N	4010	3306	54	95
12E-3 1/4N	4427	3765	54	99
12 1/2E-3 3/4N	4819	4170	55	99
SALT CANAL				
5E-5N	1667	916	71	101
6E-5N	2344	1284	73	97
7E-5N	2455	1225	78	94
7 1/2E-5N	1786	1010	80	97
8E-5N	1915	1071	81	95
9E-5N	3308	1758	81	94
9 3/4E-5N	ABANDONED			
10 1/2E-5N	2555	1411	71	95
11E-5N	3120	1194	75	94
11 1/2E-5N	2475	1410	71	92

G.P.M.-------GALLONS PER MINUTE
A.F.---------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

1989

WELL #	G.P.M.	A.F.	STATIC	PUMPING
3E-6N	2190	2009	92	141
3E-7N	2216	2128	104	142
4-6N	2159	2565	89	121
4 1/2-4 3/4N	4563	3459	71	139
5 3/4E-4 1/2N	2877	3047	73	99
6E-4N	4240	4341	65	85
6 1/2E-3 3/4N	5166	5663	63	91
7 1/2E-3 1/2N	3666	3652	62	89
8E-3 1/2N	3271	5531	58	106
8E-4 1/4N	3584	2809	73	101
8 1/2E-3 1/2N	2778	2280	55	85
9E-3 1/2N	5494	4771	53	110
9E-4 1/4N	1482	1010	68	211
9 1/2E-3 1/2N	6036	5525	52	99
10E-3 3/4N	4793	3825	55	106
10E-4 1/4N	2781	2195	60	180
10 1/8E-3 1/4N	3938	6507	50	127
10 1/2E-3 1/8N	4778	4095	50	116
11E-3N	5121	3005	49	97
11E-3 3/4N	2719	2283	54	93
11E-4 1/4N	3491	2853	64	105
11 1/2E-3N	3831	3313	51	94
11 3/4E-3 3/4N	4121	3501	52	102
12E-3 1/4N	4544	3688	53	107
12 1/2E-3 3/4N	4563	3459	53	95
SALT CANAL				
5E-5N	2171	1434	77	103
6E-5N	2167	1484	78	105
7E-5N	2620	1903	80	101
7 1/2E-5N	1842	1414	82	102
8E-5N	2923	1622	83	114
9E-5N	3766	2861	82	107
9 3/4E-5N	ABANDONED			
10 1/2E-5N	2337	1836	71	111
11E-5N	2875	2102	75	113
11 1/2E-5N	2313	1503	70	94

G.P.M.-------GALLONS PER MINUTE
A.F.---------ANNUAL ACRE FEET PUMPED
STATIC-------STATIC LEVELS
PUMPING------WATER LEVELS

RECORDED

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REPORT OF WELL DRILLER

This report should be prepared by the driller in all detail and filed with the State Land Commissioner following completion of the well.

1. OWNER Roosevelt Irrigation District (Name)
Box 95, Buckeye, Arizona (Address)

2. Lessee or Operator ..... (Name)
..... (Address)

3. DRILLER Roscoe Moss Company (Name)
4360 Worth Street, Los Angeles, Calif (Address)

4. Location of well: Twp. 1 N. Rge. 2 E. Section 10 NW ¼ SW ¼ SW ¼ (10-acre subdivision)

5. Intention to Drill File No. (A-1-2)10 ccb Permit No. S-545

DESCRIPTION OF WELL

6. Total depth of hole 500 ft.

7. Type of casing Kai-well double well casing

8. Diameter and length of casing 20 in. from 0 to 500, ... in. from ..... to ....., ... in. from ..... to .....

9. Method of sealing at reduction points .....

10. Perforated from 180 to 488, from ..... to ....., from ..... to ....., from ..... to .....

11. Size of cuts 3/16 x 2-1/2 Number of cuts per foot 16 per 10"

12. If screen was installed: Length ..... ft. Diam. ..... in. Type .....

13. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)

14. Date started December 19, 1958 (Month Day Year)

15. Date completed February 9, 1959 (Month Day Year)

16. Depth of water 113 ft. (If flowing well, so state.)

17. Describe point from which depth measurements were made, and give sea-level elevation if available
Ground Surface

18. If flowing well, state method of flow regulation .....

19. REMARKS: .....

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 3-2-59 by KLH
Filed 3-10-59 by KLH
File No. (A-1-2)10 ccb

(Well Log to Appear on Reverse Side)

WD FORM G-301
REV. 4-27-53

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	4	Brown clay
4	9	Brown clay and gravel
9	29	Sandy clay
29	107	Gravel and boulders
107	218	Sand, gravel and boulders
218	222	Caliche
222	238	Sandy clay, gravel and boulders
238	253	Soft brown clay
253	293	Sand and gravel 1/2"
293	319	Soft brown clay
319	343	Sandy clay and gravel
343	346	Coarse sand
346	500	Sandy clay and gravel

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

ROSCOE MOSS COMPANY.

Driller [signature] Name Secretary.

ROSCOE MOSS COMPANY

4360 WORTH ST.

Address

LOS ANGELES . . . CALIF.

Date 2-27-59.

Application No. 5-563 File No. (11-12)10 ccb Permit No. 5-5745

Filed _____
(Applicant must not fill in the above blanks)

This application shall be submitted to the State Land Department, Water Division, Phoenix, Arizona, in accordance with the provisions of Article 7, Chapter 1, Title 45, Arizona Revised Statutes, and the rules and regulations of the State Land Department.

Applications must be accompanied by fees made payable to the STATE LAND DEPARTMENT as follows:

Application Fee ---- $ 3.00
Permit Fee --------- $ 5.00

APPLICATION FOR A PERMIT

( ) TO DRILL)
( ) TO DEEPEN) AN IRRIGATION WELL IN A CRITICAL AREA
(✓) TO REPLACE) WITHIN THE STATE OF ARIZONA

I, We, ROOSEVELT IRRIGATION DISTRICT.
(Owners Name)

of Box 95 Buckeye, Arizona, County of Maricopa
(Post Office Address)
State of Arizona, do hereby make application for a permit to

( ) Drill new well, ( ) Deepen or (X) Replace the following described well

in the Salt River Critical Area.

1. Location and description of proposed well:

Twp. 1N Rge. 2E Sec. 10 ; Nw ¼ Sw ¼ Sw ¼
(10 Ac. Subdiv.)

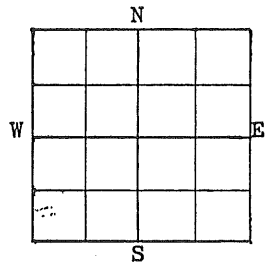
Depth 500 ft. Type of casing 8 guage 20 inch

Proposed Withdrawal 2800 gal.
(Ac.ft. per year)

Name and Address of Driller:

Roscoe Moss Co.

Location of Proposed Well



2. Location and description of existing well:

Twp. 1N Rge. 2E Sec. 10 ; Nw ¼ SW ¼ SW ¼
(10 Ac. Subdiv.)

(this is probably the well ccb we have records at c. bc.)

Depth 400 ft. Diameter 20 in.

Date drilled 1943

Driving Unit 150 H.P.

Rating of Motor 150

Discharge when Drilled 2800
(g.p.m.)

Present Discharge _____
(g.p.m.)

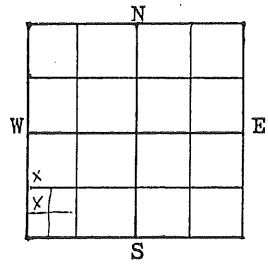
Static Water Level 85 ft.
(below ground surface)

Depth of Pump Setting 160

Pumping Lift 140 ft.

(Indicate location of well)

Location of Existing Well



PERMIT S-37 AMENDED.

FORM W-6, 1M 3-49 JAHN-TYLER

S-37 Amended

Land Department
Ground Water Division
State of Arizona

REPORT OF WELL DRILLED IN CRITICAL AREA

Report of Well Drilled in Critical Area is required to be made and filed with the State Land Commissioner upon completion of the construction of such well, pursuant to Section 10, Chapter 5, House Bill No. 2, Eighteenth Legislature, Sixth Special Session, 1948.

1. Owner Roosevelt Irrigation District (Name) Buckeye, Arizona (Address)
2. Lessee or Operator _____ (Name) _____ (Address)
3. Driller Roscoe Moss Company (Name) 4360 Worth Street, Los Angeles, California (Address)
4. Location of Well: Twp. 1N Rge. 2E Sec. 13 Legal Subdivision NE ¼ SE ¼ SE ¼ (10 acre subdivision)

   It is _____ (if less than ¼ mile) yards _____ (direction) from the nearest irrigation well.
5. Purpose of use Irrigation
6. Place of use: Twp. _____ Rge. _____ Section(s) _____, _____ (Legal Subdivision) Acres _____
7. If well is part of Irrigation District, Association, or Company, omit 6 and give name of project: _____

DESCRIPTION OF WELL

8. Total depth of hole 440 ft. 9. Type of Casing Hard red steel
10. Diameter and length of casing: 24 in. from 0 ft. to 440 ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft; _____ in. from _____ ft. to _____ ft.
11. Method of sealing at reduction points Not Reduced
12. Perforated from 80 ft. to 420 ft; from _____ ft. to _____ ft; from _____ ft. to _____ ft.
13. Size of cuts 5/8 x 4-3/4 Number of cuts per foot 14 per 12 inches
14. If screen was installed: Length _____ ft. Diameter _____ in. Type _____
15. Method of drilling Calif Type Cable Tool (drilled, dug, driven, bored, etc.)
16. Date completed August 1, 1952 (Month, Year) 17. Depth to water 110 ft. (if flowing well, so state)
18. Describe points from which depth measurements were made Ground Surface

    Sea-level elevation _____ (if available)
19. Method of flow regulation if flowing well _____

REPORT OF PUMP INSTALLATION AND TEST

20. Tested well capacity _____ (gallons per minute) Method of measurement _____ (weir, orifice, meter, etc.)
21. Depth immediately prior to capacity test, from land surface to static water level _____ ft.
22. Non-flowing well: Drawdown _____ ft. measured after _____ (at least 4) hours of continuous operation, and while pump is still operating.
23. Flowing well: Shut-in pressure _____ ft. above the land surface, or _____ pounds per square inch at the land surface.
24. Kind of Pump _____ (turbine, centrifugal, etc.)
25. Kind of Power _____ (electric, natural gas, etc.)
26. Horsepower Rating of Motor _____
27. Permittee _____ (Signature)

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 9-3-52 by lec
Filed 9-3-52 by lec
File No. (A-1-2)13 dda
Cross-referenced (Name) _____ by _____
Cross-referenced (Basin) _____ by _____
Cross-referenced _____ by _____

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water-bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (feet)	TO (feet)	DESCRIPTION OF FORMATION MATERIAL
0	12	Sandy clay
12	180	Sand, gravel and boulders 10"
180	238	Sand and gravel 4"
238	253	Clay
253	270	Sand and gravel to 4"
270	275	Cemented clay
275	300	Caliche
300	315	Soft clay and small gravel
315	340	Soft sandy clay and silt
340	358	Hard clay
358	375	Soft sandy clay
375	390	Clay and gravel
390	440	Hard clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller Roscoe Moss Company
Name

4360 Worth Street, Los Angeles, Calif
Address

Date August 29, 1952

NOTE: Report and Log are to be completed by the permittee and driller, and mailed by the permittee to the Ground Water Division of the State Land Department immediately upon completion of the well and pumping test.

Application No. AMENDED S-39 File No. (A-1-2)13dda Permit No. AMENDED S-37

Filed June 5, 1952
(Applicant must not fill in the above blanks)

This application shall be submitted in duplicate to the State Land Department, Water Division, Phoenix, Arizona, in accordance with the provisions of Section 7, Chapter 5, House Bill No. 2, Session Laws of 1948, Eighteenth Legislature, Sixth Special Session. (THE LANDOWNER OR LESSEE SHALL NOT MAKE ANY CHANGE OF LOCATION AFFECTING THE PROPOSED NEW WELL UNLESS A NEW APPLICATION IS MADE FOR AMENDMENT TO THIS, THE ORIGINAL APPLICATION).

12E-3 ½N

AMENDED APPLICATION FOR A PERMIT TO DRILL AN IRRIGATION WELL IN A CRITICAL AREA WITHIN THE STATE OF ARIZONA

I, We, JOHN P. VAN DENBURGH, Superintendent-Secretary of the Roosevelt Irrigation Dis
(Applicant's name as inserted here must agree with signature)

of Valencia, Buckeye, County of Maricopa
(Post Office Address)

State of Arizona, do hereby make application for a permit to drill the following described well in the Salt River Valley Critical Area.

1. **Location and Description of Proposed Well.**

Twp. 1N, Rge. 2E, Sec. 13,

NE ¼ SE ¼ SE ¼
(10-acre subdivision)

Depth 600 ft. Diameter 24 in. Type of Casing #10 gauge Double Hard Red Steel

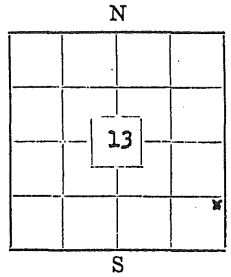
Driving Unit _____ Horsepower _____

Pump Capacity _____ (G. P. M.) Proposed withdrawal _____ (A. F. per year)

Type of Construction—Cable Tool ☒ Rotary ☐

Name and address of Driller Roscoe Moss Company
4360 Worth Street
Los Angeles, California

Location of Proposed Well



(Indicate location of proposed well and place number of section in square).

2. Land to be irrigated: ROOSEVELT IRRIGATION DISTRICT
Twp. _____, Rge. _____, Sec. _____, _____ (Legal Subdivision) _____ (Acres)
Twp. _____, Rge. _____, Sec. _____, _____ (Legal Subdivision) _____ (Acres)

3. Above described land is now irrigated as follows: _____

4. Record of cultivation and irrigation of land described herein, from year 1943 to date. _____

5. **Location and Description of Existing Wells.**

Twp. 1N, Rge. 2 E, Sec. 18, NE ¼ SE ¼ NW ¼
(Legal Subdivision)

Depth 300 ft. Diameter 14 in. Driving Unit electric, H. P. rating of motor 234

Date drilled December 2nd, 1940 Pump Discharge when drilled _____ G. P. M.

Present discharge 13 Sec Ft ~~G.P.M.~~ Static water level (below ground surface) 50 ft.

Depth of pump setting _____ ft. Pumping lift 102 ft.

(If more than one well for same land, use spaces below).

Twp. _____, Rge. _____, Sec. _____, _____ ¼ _____ ¼ _____ ¼

Depth _____ ft. Diameter _____ in. Driving Unit _____, H. P. rating of motor _____

Date drilled _____ Pump Discharge when drilled _____ G. P. M.

Present discharge _____ G. P. M. Static water level (below ground surface) _____ ft.

Depth of pump setting _____ ft. Pumping lift _____ ft.

6. Reason new well required To replace existing well.

7. It is understood that the permit, if granted, will be in accordance with the Ground Water Code of 1948, and the Permittee will be bound by the provisions of such law, and the provisions of the permit issued herefor.

CERTIFICATE

8. I, (we) Roosevelt Irrigation District John P. Van Denburgh, Superintendent-Secretary, the applicant named in ~~the above~~ and foregoing application, do hereby certify under the penalty of perjury, that the information contained and statements therein made are, to the best of my knowledge and belief, true, correct, and complete.

Dated this 19th day of April 19 52.

John P. Van Denburgh
Applicant

John P. Van Denburgh, Superintendent-Sec.
Roosevelt Irrigation District, Box 1089, Buckeye, Arizona
(Post Office Address)

Fee of $3.00 must be paid with filing of application

FORM W-3—1M—10-51

LAND DEPARTMENT
WATER DIVISION
STATE OF ARIZONA

REPORT OF WELL DRILLER

EXCERPT OF 1945 GROUNDWATER LAW

Report of Well Driller must be prepared by the driller in all detail and filed with the State Land Commissioner as required by Section 7, Chapter 12, Senate Bill No. 3, First Special Session, 1945. This report should be in the mail within 30 days following completion of the well. Section 8 of the law provides: "Any person (includes any individual, firm, public or private corporation, or governmental agency) who shall fail or refuse to make any of the reports, give the notices required, or fail to cooperate with the State Land Commissioner or his representative, under the provisions of this Act, shall be guilty of a misdemeanor and shall be fined a sum not exceeding One Hundred Dollars."

1. OWNER Roosevelt Irrigation District (Name)
   P.O. Box 75
   Buckeye, Arizona. (Address)
2. Lessee or Operator ..... (Name)
   ..... (Address)
3. DRILLER Roscoe Moss Company (Name)
   4360 Worth Street, Los Angeles, California. (Address)
4. Location of well: Twp. 1-N Rge. 2-E Section 14 NW ¼ SW ¼ SW ¼ (10-acre subdivision)
5. Intention to Drill File No. .....

DESCRIPTION OF WELL

6. Total depth of hole 1800 ~~800~~ ft.
7. Type of casing Double Well Casing
8. Diameter and length of casing 20 in. from 0 to 800 in. from ..... to ....., ... in. from ..... to .....
9. Method of sealing at reduction points .....
10. Perforated from 123 to 788, from ..... to ....., from ..... to ....., from ..... to .....
11. Size of cuts 1/4 x 2-1/2 Number cuts per foot 10 per 5 inches
12. If screen was installed: Length ..... ft. Diam. ..... in. Type .....
13. Method of construction Drilled (drilled, dug, driven, bored, jetted, etc.)
14. Date completed May 7, 1968 (Month, Year)
15. Depth to water ..... ft. (If flowing well, so state.)
16. Describe point from which depth measurements were made, and give sea-level elevation if available
    Ground Surface.
17. If flowing well, state method of flow regulation .....
18. REMARKS: .....

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Received 7-2-68 by [illegible]
Filed 7-3-68 by [illegible]
File No. A(1-2)14 ~~ccb~~ CDD

(Well Log to Appear on Reverse Side)

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	10	Clay
10	105	Gravel and boulders
105	220	Sand, gravel and boulders
220	245	Sand and gravel
245	290	Sandy clay
290	300	Sand and gravel
300	375	Clay
375	420	Sandy clay
420	735	Clay
735	800	Sandy clay

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein contained are true to the best of my knowledge and belief.

Driller ROSCOE MOSS COMPANY
Name

4360 Worth Street,
Los Angeles, California.
Address

Date July 1, 1968

By [signature]
Secretary