ROOSEVELT IRRIGATION DISTRICT

REPORT ON WELL 1½ E - 10½ N — Redrill

24"-200'

Work started - March 16, 1943
Work completed - May 5, 1943
Total Depth - 1,000'
Depth of casing - 1,000'
200' 24" 8 Ga. & 806' 16" 10 Ga. casing used and left in well
Size of shoe -

LOG OF WELL

0'	- 13'	- Sandy clay	
13	- 30	- Rock	
30	- 60	- Gravel and some clay	
60	- 75	- Clay	
75	- 127	- Gravel and some clay	
127	- 160	- Hard clay and caliche	
160	- 162	- Cemented clay	
162	- 185	- Hard clay	
185	- 186	- Cemented sand	
186	- 200	- Hard clay	(24" to here)
200	- 206	- Hard clay	(16" from here)
206	- 214	- Gravel to 1½"	
214	- 402	- Hard clay	
402	- 464	- Hard sandy clay	
464	- 508	- Hard clay	
508	- 510	- Cemented clay	
510	- 515	- Hard clay	
515	- 518	- Cemented sand	
518	- 565	- Hard clay	
565	- 575	- Soft sandy clay	
575	- 590	- Hard sandy clay	
590	- 593	- Cemented sand	
593	- 598	- Hard clay	
598	- 605	- Rock	
605	- 954	- Hard clay	
954	-1000	- Hard sand clay, several thin shells	

Perforations

200' to 988' - 16" - 8 Holes per 10 inches
60' to 190' - 24" -12 Holes per 10 inches
Diam. 16" - 9/16 & 24" - 3/4"
Length 16" - 3½ & 24" - 5 Mills knife used.
Depth at which water was first found - 60'
Standing level before perforating - 50'
Standing level after perforating - 42'

Casing cut 194' from surface - 16" cut - Lap in larger casing 6'
Adapter used -
Well is practically straight

REMARKS Drilled by Roscoe Moss Company - J. N. Olson, Driller
Rig #22

COST

Drilling 24" - 200' @ 4.25 per ft. $850.00	850.00
Drilling 16" - 200' - 1,000 - 800' @ 3.50	2,800.00
1 - 20' - 24" #8 ga. starter with shoe	420.45
180'-24" #8 ga. double well casing @ 7.55/ft.	1,359.00
1 - 20' - 16" #10ga. starter with shoe	204.53
784' - 16" #10 ga. casing	3,245.76
For instal. 16" casing in 24" hole, cutting off 16" casing & removing same 200' @ 65¢/ft	130.00
1 - 24" to 16" adapter installed	35.00
Total	$9,044.74

Well 64

Fairbanks Morse
Pentair Water

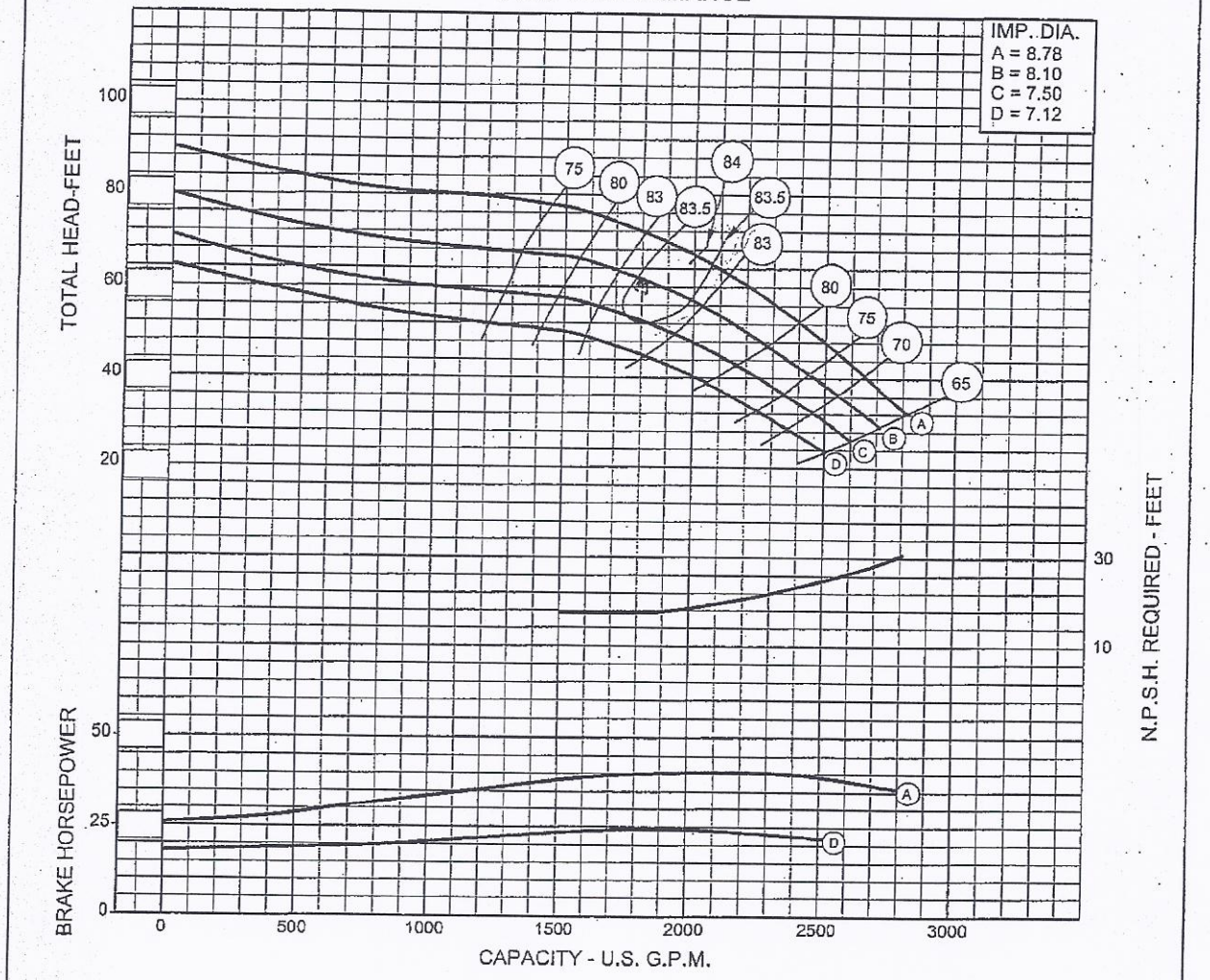
No. Stages	Eff. Change	MATERIAL	Eff. Change
1	-2	IMP. – C.I.	-1
2	-1.5	IMP. – BRZ.	0
3	-.5	IMP. – ENAM. C.I.	+1
4	0	BOWL – C.I.	-2
		BOWL – ENAM. C.I.	0

13 H — 1770 R.P.M.

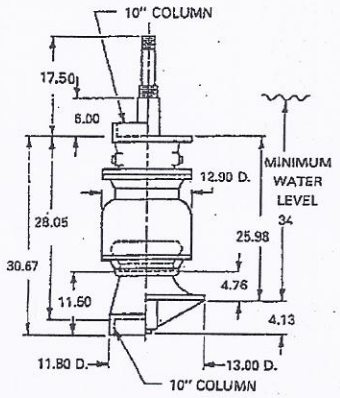
SINGLE STAGE LAB PERFORMANCE, WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 2 OR MORE STAGES. HORSEPOWER SHOWN FOR ONE STAGE BASED ON 2 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.

ONE STAGE ( ) STAGES

PUMP PERFORMANCE



Maximum Operating Speed	2300	Maximum Sphere Size - Inches	1.00
Pump Shaft Diameter – Inches	1.687	Thrust Factor – K_f	12.02
Bowl Weight, 1st Stage – Lbs.	327	WR^2	3.11
Bowl Weight, Ea. Add. Stage–Lbs.	157	Running Position (above seat)-In.	0.20
Allowable Shaft Stretch – Inches	0.80	Submergence- Inches	34
Maximum Working Pressure – PSI	380	Max. Bowl Brg Clearance-In.Dia.	0.014
Maximum Hydro Pressure – PSI	570	Max Wear Ring Clearance-In.Dia.	0.018
Impeller Eye Area – Sq. In.	28.40	Max Bowl O.D. – Inches	12.90
Rotor Weight 1st/add stages-(K_a)	43.3/43.3	Suct Bell O.D. – Inches	13.00
Add 13.06" per additional stage.		Maximum Number of Stages	11
Discharge – Inches	10	Suction - Inches	10



ENERGY ANALYSIS SUMMARY SHEET

This summary sheet will aid you in filling out ADWR worksheet W-2

Conducted by: Well Energy Testing, Inc.
(602)499-6019 (mob)

Customer: RID

Date: 06/03/09 — Box 7

Type: Manometer — Box 2
Make: C.W. Cox — Box 2
Model: Piro-Swivel Velocitygage — Box 2
Size: _____ — Box 2

Pump Location: 1.5E-10.5N
Pump ID: 64

Power Co.: SRP — Box 3
Meter #: 394809 — Box 3

Multiplier K (Kr): 30 — Box 4
Disk K (Kh): 1.2 — Box 4

Inside Pipe Dia. (in.): 10 — Box 6

Velocity Gauge reading (fps): 5.5 — Box 7

Flow (m.i.): 120
Flow (gpm): 1346.40 — Box 7
Flow (ac-ft/day): 6.00

Rev: 10
Time for 10 revs (sec): 17.05 (avg. of 3) — Box 7

Kilowatt hours/ac-ft: 306.61

Energy Cost/ac-ft: $17.72

*This value is an estimation of energy cost only. It does not include demand use, service, or customer charges. Your actual cost will be higher, depending on demand.

Salinity (ppm): 1160

Pumping water level (ft): 72

Remarks: All results are based on conditions during the time of test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

*Flow decreased 10 m.i. since last summer.
PWL has risen 6 feet since late summer last year.

Please install a new plug on side of pipe, thank you.

ENERGY ANALYSIS SUMMARY SHEET

This summary sheet will aid you in filling out ADWR worksheet W-2

Conducted by: Well Energy Testing, Inc.
(602)499-6019 (mob)

Customer: RID

Date: 09/11/09 Box 7

Type: Manometer Box 2
Make: C.W. Cox Box 2
Model: Piro-Swivel Velocitygage Box 2
Size: Box 2

Pump Location: 1.5E-10.5N
Pump ID: 64

Power Co.: SRP Box 3
Meter #: 394809 Box 3

Multiplier K (Kr): 30 Box 4
Disk K (Kh): 1.2 Box 4

Inside Pipe Dia. (in.): 10 Box 6

Velocity Gauge reading (fps): 5.5 Box 7

Flow (m.i.): 120
Flow (gpm): 1346.40 Box 7
Flow (ac-ft/day): 6.00

Rev: 10
Time for 10 revs (sec): 17.18 (avg. of 3) Box 7

Kilowatt hours/ac-ft: 304.23

Energy Cost/ac-ft: $17.58

Salinity (ppm): 1160

Pumping water level (ft): 72

*This value is an estimation of energy cost only. It does not include demand use, service, or customer charges. Your actual cost will be higher, depending on demand.

Remarks: All results are based on conditions during the time of test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

Please install a new plug on side of pipe, thank you.

ENERGY ANALYSIS SUMMARY SHEET

This summary sheet will aid you in filling out ADWR worksheet W-2

Conducted by: Well Energy Testing, Inc.
(602)499-6019 (mob)

Customer: RID

Date: 04/29/10 — Box 7

Type: Manometer — Box 2
Make: C.W. Cox — Box 2
Model: Piro-Swivel Velocitygage — Box 2
Size: _____ — Box 2

Pump Location: 1.5E-10.5N
Pump ID: 64

Power Co.: SRP — Box 3
Meter #: 394809 — Box 3

Multiplier K (Kr): 30 — Box 4
Disk K (Kh): 1.2 — Box 4

Inside Pipe Dia. (in.): 10 — Box 6

Velocity Gauge reading (fps): 5.5 — Box 7

Flow (m.i.): 120
Flow (gpm): 1346.40 — Box 7
Flow (ac-ft/day): 6.00

Rev: 10
Time for 10 revs (sec): 16.98 (avg. of 3) — Box 7

Kilowatt hours/ac-ft: 307.81

Energy Cost/ac-ft: $17.79

*This value is an estimation of energy cost only. It does not include demand use, service, or customer charges. Your actual cost will be higher, depending on demand.

Salinity (ppm): 1160

Pumping water level (ft): 104

Remarks: All results are based on conditions during the time of test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

PWL has dropped 30 feet since last summer.

ENERGY ANALYSIS SUMMARY SHEET

Conducted by

This summary sheet will aid you in filling out ADWR worksheet W-2

Customer: RID

Date: 07/20/10 — Box 7

Type: Manometer — Box 2
Make: C.W. Cox — Box 2
Model: Piro-Swivel Velocitygage — Box 2
Size: _____ — Box 2

Pump Location: 1.5E-10.5N
Pump ID: 64

Power Co.: SRP — Box 3
Meter #: 394809 — Box 3

Multiplier K (Kr): 30 — Box 4
Disk K (Kh): 1.2 — Box 4

Inside Pipe Dia. (in.): 10 — Box 6

Velocity Gauge reading (fps): 5 — Box 7

Flow (m.i.): 110
Flow (gpm): 1234.20 — Box 7
Flow (ac-ft/day): 5.50

Rev: 10
Time for 10 revs (sec): 17.20 (avg. of 3) — Box 7

Kilowatt hours/ac-ft: 331.57

Energy Cost/ac-ft: $19.60 — *This value is an estimation of include demand use, service, ⊂ cost will be higher, depending

Salinity (ppm): 1030

Pumping water level (ft): 86

Remarks: All results are based on conditions during the time of test. If these∈ from the normal operation of your pump, the results shown may n pump's normal performance.

PWL has dropped another 18 feet since April, and flow rate decreased 10 m.i.

ENERGY ANALYSIS SUMMARY SHEET

This summary sheet will aid you in filling out ADWR worksheet W-2

Conducted by: Well Energy Testing, Inc.
(602)499-6019 (mob)

Customer: RID

Date: 05/05/11 — Box 7

Type: Manometer — Box 2
Make: C.W. Cox — Box 2
Model: Piro-Swivel Velocitygage — Box 2
Size: _____ — Box 2

Pump Location: 1.5E-10.5N
Pump ID: 64

Power Co.: SRP — Box 3
Meter #: 394809 — Box 3

Multiplier K (Kr): 30 — Box 4
Disk K (Kh): 1.2 — Box 4

Inside Pipe Dia. (in.): 10 — Box 6

Velocity Gauge reading (fps): 4 — Box 7

Flow (m.i.): 88 110
Flow (gpm): 987.36 — Box 7
Flow (ac-ft/day): 4.40

Rev: 10
Time for 10 revs (sec): 17.20 (avg. of 3) — Box 7

Kilowatt hours/ac-ft: 414.46

Energy Cost/ac-ft: $24.49

Salinity (ppm): 880

Pumping water level (ft): 80

*This value is an estimation of energy cost only. It does not include demand use, service, or customer charges. Your actual cost will be higher, depending on demand.

Remarks: All results are based on conditions during the time of test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

Flow has decreased 22 m.i. since last year.

Please install a new plug on the side of the pipe please.

ENERGY ANALYSIS SUMMARY SHEET

This summary sheet will aid you in filling out ADWR worksheet W-2

Conducted by: Well Energy Testing, Inc.
(602)499-6019 (mob)

Customer: RID

Date: 07/08/11 — Box 7

Type: Manometer — Box 2
Make: C.W. Cox — Box 2
Model: Piro-Swivel Velocitygage — Box 2
Size: _____ — Box 2

Pump Location: 1.5E-10.5N
Pump ID: 64

Power Co.: SRP — Box 3
Meter #: 394809 — Box 3

Multiplier K (Kr): 30 — Box 4
Disk K (Kh): 1.2 — Box 4

Inside Pipe Dia. (in.): 10 — Box 6

Velocity Gauge reading (fps): 3.5 — Box 7

Flow (m.i.): 76
Flow (gpm): 852.72 — Box 7
Flow (ac-ft/day): 3.80

Rev: 10
Time for 10 revs (sec): 17.07 (avg. of 3) — Box 7

Kilowatt hours/ac-ft: 483.65

Energy Cost/ac-ft: $28.58

Salinity (ppm): 910

Pumping water level (ft): 79

*This value is an estimation of energy cost only. It does not include demand use, service, or customer charges. Your actual cost will be higher, depending on demand.

Remarks: All results are based on conditions during the time of test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.

Flow fluctuated between 3 - 4 fps, and has decreased 12 m.i. since May.
Please install a new plug on the side of the pipe please.

Weber Water Resources

Invoice 0010433-IN

Sold To: ROOSEVELT IRRIGATION DISTRICT
ATTN: ACCOUNTS PAYABLE
103 W. BASELINE RD.
BUCKEYE, AZ 85326

Date:	2/17/2012
Job Number:	2032-071
Completion Date:	FINAL
Salesperson:	TIM MILLER
Terms:	NET 30 DAYS
Customer P.O.	KEN CRAIG
Sales Tax Code:	AZRMAR

Description: #
WELL 64 1-1/2E - 10-1/2N

DESCRIPTION	TX	Quantity	Price	Amount
WELL 64 1-1/2E - 10-1/2N				
DIRECT SALE PER KEN CRAIG:				
MATERIALS - NONTAXABLE	NT	1.00	2,869.50	2,869.50
MATERIALS - TAXABLE	TX	1.00	717.37	717.37
1 - FAIRBANKS 13H 2 STAGE @ 3,586.87				
(10" T x 2-1/2" x 1-1/2" P)				
DESIGN: 1800 GPM @ 125' TDH.				

Net Invoice:	3,586.87
Sales Tax:	52.37
Invoice Total:	3,639.24

Copied for Ken 2-18-12