

**EXHIBIT “D”
WATER AND PUMP
INFORMATION
(KOTCHIAN)**

05/12/2010

S. A. CAMP PUMP COMPANY

PUMP TEST REPORT

GRIMMWAY KOTCHIAN DW135 DOMESTIC

CUSTOMER : GRIMMWAY FARMS
WELL # :
METER : D815-4243
LEGAL :
LOCATION : 1/2 MILE WEST OF 90TH ST E AND 1/4 MILE SOUTH OF AVE K
TEST DATE : 05/12/2010

EQUIPMENT

Motor: HP:5 Volts:240 R.P.M.:3450 Serial No:
Frame: Type:
Pump : Type: Submersible

TEST RESULTS

Standing Water Level below Surface of Ground		320 FT
Draw Down From Standing to Pumping Level		3 FT
Pumping Water Level		323 FT
Discharge Head Above Ground	GA-40.0	92.4 FT
TOTAL LIFT		415.4 FT
WATER PUMPED		26 GPM.
Yield of Well (G.P.M. per foot Draw Down)		8.7 GPM/FT
HORSEPOWER INPUT TO MOTOR		H.P.
OVERALL PLANT EFFICIENCY		%
Acre Foot in 24 Hours		11
Kilowatt Input to Motor		
Kilowatt Hours/Acre Foot Pumped		
Average Cost per KW		
Cost Per Acre Foot		

ID:
SCALE:
AMPS TURBINE 18 17 18
AIRLINE:

TEST ENGINEER Jim Weir

05/12/2010

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Discharge Head Above Ground		2 FT
TOTAL LIFT		325 FT
WATER PUMPED		29 GPM.
Yield of Well (G.P.M. per foot Draw Down)		9.7 GPM/FT
HORSEPOWER INPUT TO MOTOR		H.P.
OVERALL PLANT EFFICIENCY		%
Acre Foot in 24 Hours		13
Kilowatt Input to Motor		
Kilowatt Hours/Acre Foot Pumped		
Average Cost per KW		
Cost Per Acre Foot		

ID:
SCALE:
AMPS TURBINE 18 17 18
AIRLINE:

TEST ENGINEER Jim Weir

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P U M P T E S T F I L E R E P O R T
GRIMMWAY KOTCHIAN DW135 DOMESTIC

Name GRIMMWAY FARMS
Well
Meter D815-4243
Legal
Location 1/2 MILE WEST OF 90TH ST E AND
1/4 MILE SOUTH OF AVE K

PUMP DATA INSTALLATION DATE 05/10/2010
PUMP SETTING 357
AIRLINE
CT&S SIZE 2
BOWLS 5 HP 3450 MODEL 25LD5S4 SUB
WELL DEPTH 6 TO 370

Motor HP 5 Volts 240 R.P.M. 3450 Serial
Frame Type Pump Type Submersible

DATE	12/02/09	05/05/10	05/05/10	05/12/10	05/12/10			
STANDING								
WATER	317'	318'	318'	320'	320'			
DRAW DOWN	1'	2'	1'	3'	3'			
PUMPING								
WATER	318'	320'	319'	323'	323'			
DISCHARGE								
HEAD		5'	92.4'	2'	92.4'			
TOTAL								
LIFT	318'	325'	411.4'	325'	415.4'			
G.P.M.		14	7	29	26			
GPM/FT		7	7	9.7	8.7			
H.P./RPM								
EFF.								
AC FT IN								
24 HRS		6	3	13	11			
KW TO								
MOTOR								
KW HOURS								
PER AC FT								
COST								
PER AC/FT								

05/12/2010

S. A. CAMP PUMP COMPANY

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EQUIPMENT

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Frame: Type:
Pump : Type: Submersible

TEST RESULTS

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WATER PUMPED		26 GPM.
Yield of Well (G.P.M. per foot Draw Down)		8.7 GPM/FT
HORSEPOWER INPUT TO MOTOR		H.P.
OVERALL PLANT EFFICIENCY		%
Acre Foot in 24 Hours		11
Kilowatt Input to Motor		
Kilowatt Hours/Acre Foot Pumped		
Average Cost per KW		
Cost Per Acre Foot		

ID:
SCALE:
AMPS TURBINE 18 17 18
AIRLINE:

TEST ENGINEER Jim Weir

05/12/2010

S. A. CAMP PUMP COMPANY

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TEST RESULTS

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OVERALL PLANT EFFICIENCY		%
Acre Foot in 24 Hours		13
Kilowatt Input to Motor		
Kilowatt Hours/Acre Foot Pumped		
Average Cost per KW		
Cost Per Acre Foot		

ID:
SCALE:
AMPS TURBINE 18 17 18
AIRLINE:

TEST ENGINEER Jim Weir

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P U M P T E S T F I L E R E P O R T
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Well
Meter D815-4243
Legal
Location 1/2 MILE WEST OF 90TH ST E AND
1/4 MILE SOUTH OF AVE K

PUMP DATA INSTALLATION DATE 05/10/2010
PUMP SETTING 357
AIRLINE
CT&S SIZE 2
BOWLS 5 HP 3450 MODEL 25LD5S4 SUB
WELL DEPTH 6 TO 370

Motor HP 5 Volts 240 R.P.M. 3450 Serial
Frame Type Pump Type Submersible

DATE	12/02/09	05/05/10	05/05/10	05/12/10	05/12/10
STANDING					
WATER	317'	318'	318'	320'	320'
DRAW DOWN	1'	2'	1'	3'	3'
PUMPING					
WATER	318'	320'	319'	323'	323'
DISCHARGE					
HEAD		5'	92.4'	2'	92.4'
TOTAL					
LIFT	318'	325'	411.4'	325'	415.4'
G.P.M.		14	7	29	26
GPM/FT		7	7	9.7	8.7
H.P./RPM					
EFF.					
AC FT IN					
24 HRS		6	3	13	11
KW TO					
MOTOR					
KW HOURS					
PER AC FT					
COST					
PER AC/FT					

DW133

DUPLICATE
retain this copy

WATER WELL DRILLERS REPORT

(Sections 7075, 7080, 7081, 7082, Water Code)

Do Not Fill In

N^o 31554

THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

State Well No. _____

Other Well No. _____

(1) OWNER:

Name Murray Howard-Kotchian Ranch
Address 3440 Wilshire Blvd.
Los Angeles, Calif.

(2) LOCATION OF WELL:

County Los Angeles Owner's number, if any _____
Township, Range, and Section 2-7-N - R-10-W; Sec 30
Distance from cities, roads, railroads, etc. 0.1 mi. S of Sierra Hwy.

(3) TYPE OF WORK (check):

New Well ☐ Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Other ☐

(6) CASING INSTALLED:

STEEL: ☒ OTHER: _____SINGLE ☒ DOUBLE ☐

If gravel packed

From ft.	To ft.	Diam. in.	Gage or Wall in.	Diameter of Bore in.	From ft.	To ft.
340	340	16"	1 1/4"	26"	0	785

Size of shoe or well ring: _____

Size of gravel: 4 # 20

Describe joint _____

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen _____

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
340	785	12	3	1/8" x 2 1/4"

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No ☒ To what depth _____ ft.Were any strata sealed against pollution? Yes ☐ No ☐ If yes, note depth of strata _____

From _____ ft. to _____ ft.

From _____ ft. to _____ ft.

Method of sealing _____

(9) WATER LEVELS:

Depth at which water was first found, if known 297 ft. 297

Standing level before perforating, if known _____ ft.

Standing level after perforating and developing 297 ft.

(10) WELL TESTS:

Was pump test made? Yes ☐ No ☒ If yes, by whom? Peerless

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐Was electric log made of well? Yes ☐ No ☐ If yes, attach copy _____

(11) WELL LOG:

Total depth 700 ft. Depth of completed well 785 ft.

Formation: Describe by color, character, size of material, and structure

ft. to _____ ft.

0 - 7 Surface soil7 - 15 Coarse sand15 - 37 Sandy clay37 - 73 Sand, clay streaks73 - 105 Boulders, coarse sand105 - 138 Boulders, sand, small138 - 195 clay streaks195 - 235 Sand, boulders235 - 287 Boulders, sandy clay287 - 360 Boulders, sand with clay360 - 392 streaks392 - 438 boulders & sand438 - 472 Sand, rocks, streaks of472 - 505 clay505 - 540 Sand, gravel540 - 605 Rocks, sand605 - 620 Sand, small clay streaks620 - 630 Coarse sand630 - 667 Sand, small clay streaks667 - 700 Sand700 - 767 Sand, boulders767 - 771 Coarse sand, fine771 - 785 Coarse sand & boulders785 - 790 Coarse, hard packed sand

"Water Performance"

2610 CFM = 545 feet2300 " = 537 "2013 " = 532 "1700 " = 532 "1400 " = 527 "47.5%Work started 2-18-1966, Completed 3/10/1966

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Rottman Drilling Co.
(Person, firm, or corporation) (Typed or printed)Address 121 West Ave. I
Lancaster, Calif. 93534[SIGNED] [Signature]
(Well Driller)License No. 117561 Dated 15 Mar 1966, 19____

SKETCH LOCATION OF WELL ON REVERSE SIDE

06/18/2012

S. A. CAMP PUMP COMPANY

PUMP TEST REPORT

GRIMMWAY KOTCHIAN DW133 PE1365

CUSTOMER : GRIMMWAY FARMS
WELL # : DW133 PE1365
METER : V349N-0139
LEGAL :
LOCATION : 3/4 MILE WEST OF 90TH ST EAST ON SOUTH SIDE OF AVE K
TEST DATE : 06/18/2012

EQUIPMENT

Motor: U.S. HP:350 Volts:480 R.P.M.:1780 Serial No:82002293
Frame: 447TPA Type: RU
Pump : PEERLESS Type: Oil Lube Turbine

TEST RESULTS

Standing Water Level below Surface of Ground	GA-62.0	297 FT
Draw Down From Standing to Pumping Level		28 FT
Pumping Water Level	GA-50.0	325 FT
Discharge Head Above Ground	GA-90.0	207.9 FT
TOTAL LIFT		532.9 FT
WATER PUMPED		1502 GPM.
Yield of Well (G.P.M. per foot Draw Down)		53.6 GPM/FT
HORSEPOWER INPUT TO MOTOR		H.P.
OVERALL PLANT EFFICIENCY		%
Acre Foot in 24 Hours		6.64
Kilowatt Input to Motor		
Kilowatt Hours/Acre Foot Pumped		
Average Cost per KW		
Cost Per Acre Foot		

CUSTOMER DID NOT HAVE KEY FOR METER PANEL. DO NOT KNOW AT
WHAT SPEED PUMP WAS RUNNING. NEED TO RETEST

KH: 1.80
K: 80
ID: 101/4 82.50
SCALE: 18.20
AMPS TURBINE 174 176 182
AIRLINE: 440

TEST ENGINEER TROYCE COKE

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P U M P T E S T F I L E R E P O R T

GRIMMWAY KOTCHIAN DW133 PE1365

Name GRIMMWAY FARMS
 Well DW133 PE1365
 Meter V349N-0139
 Legal
 Location 3/4 MILE WEST OF 90TH ST EAST
 ON SOUTH SIDE OF AVE K

 !PUMP DATA INSTALLATION DATE 05/24/2010
 !PUMP SETTING 480
 !AIRLINE 260 GALVINIZED 180 STAINLESS
 !CT&S SIZE 10 X 3 X 115/16
 !BOWLS 13 STAGES 12NKL13 INGERSOL
 !WELL DEPTH 16 TO 785 1966
 ! BLANK 340 PERFORATIONS 445
 !
 !-----

Motor U.S. HP 350 Volts 480 R.P.M. 1780 Serial 82002293
 Frame 447TPA Type RU Pump PEERLESS Type Oil Lube Turbine

DATE	06/02/10	06/05/10	08/16/11	06/18/12				
STANDING								
WATER	323'	311'	288'	297'				
DRAW DOWN	34'	37'	32'	28'				
PUMPING								
WATER	357'	348'	320'	325'				
DISCHARGE								
HEAD	196.4'	184.8'	207.9'	207.9'				
TOTAL								
LIFT	553.4'	532.8'	527.9'	532.9'				
G.P.M.	1312	1815	1551	1502				
GPM/FT	38.6	49.1	48.5	53.6				
H.P./RPM	337.4	340.1						
EFF.	54.3	71.8						
AC FT IN								
24 HRS	5.80	8.02	6.85	6.64				
KW TO								
MOTOR	251.70	253.71						
KW HOURS								
PER AC FT	1041.9	759.1						
COST								
PER AC/FT								

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P U M P T E S T F I L E R E P O R T
GRIMMWAY KOTCHIAN DW133 PE1365

Name GRIMMWAY FARMS
Well DW133 PE1365
Meter V349N-0139
Legal
Location 3/4 MILE WEST OF 90TH ST EAST
ON SOUTH SIDE OF AVE K

PUMP DATA INSTALLATION DATE 05/24/2010
PUMP SETTING 480
AIRLINE 260 GALVINIZED 180 STAINLESS
CT&S SIZE 10 X 3 X 115/16
BOWLS 13 STAGES 12NKL13 INGERSOL
WELL DEPTH 16 TO 785 1966
BLANK 340 PERFORATIONS 445

Motor U.S. HP 350 Volts 480 R.P.M. 1780 Serial 82002293
Frame 447TPA Type RU Pump PEERLESS Type Oil Lube Turbine

DATE	02/07/03	02/07/03	09/18/03	10/08/04	09/17/05	09/11/06	10/11/07	08/04/08
STANDING								
WATER	285'	285'	278'	294'	318'	308'	313'	348'
DRAW DOWN	23'	23'	42'	17'	30'	30'	23'	25'
PUMPING								
WATER	308'	308'	320'	311'	348'	338'	336'	373'
DISCHARGE								
HEAD	7'	7'	46.2'	104'	80.9'	57.8'	69.3'	48.5'
TOTAL								
LIFT	315'	315'	366.2'	415'	428.9'	395.8'	405.3'	421.5'
G.P.M.	1757	1774	1568	1262	1526	1576	1304	1485
GPM/FT	76.4	77.1	37.3	74.2	50.9	52.5	56.7	59.4
H.P./RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM
EFF.	1770	1800	1770	1770	1770	1770	1770	1770
AC FT IN								
24 HRS	7.76	7.84	6.93	5.58	6.74	6.96	5.76	6.56
KW TO								
MOTOR								
KW HOURS								
PER AC FT								
COST								
PER AC/FT								

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P U M P T E S T F I L E R E P O R T

GRIMMWAY KOTCHIAN DW133 PE1365

Name GRIMMWAY FARMS
 Well DW133 PE1365
 Meter V349N-0139
 Legal
 Location 3/4 MILE WEST OF 90TH ST EAST
 ON SOUTH SIDE OF AVE K

 |PUMP DATA INSTALLATION DATE 05/24/2010
 |PUMP SETTING 480
 |AIRLINE 260 GALVINIZED 180 STAINLESS
 |CT&S SIZE 10 X 3 X 115/16
 |BOWLS 13 STAGES 12NKL13 INGERSOL
 |WELL DEPTH 16 TO 785 1966
 |BLANK 340 PERFORATIONS 445
 |
 |-----

Motor U.S.
 Frame 447TPA

HP 350
 Type RU

Volts 480
 Pump PEERLESS

R.P.M. 1780 Serial 82002293
 Type Oil Lube Turbine

DATE	01/05/00	01/05/00	01/05/00	01/05/00	01/05/00	06/01/01	06/01/01	09/17/02
STANDING								
WATER	284'	284'	284'	284'	284'	278'	278'	290'
DRAW DOWN	35'	26'	26'	24'	21'	26'	35'	16'
PUMPING								
WATER	319'	310'	310'	308'	305'	304'	313'	306'
DISCHARGE								
HEAD						9.2'	11.6'	46.2'
TOTAL								
LIFT	319'	310'	310'	308'	305'	313.2'	324.6'	352.2'
G.P.M.	1856	1609	1402	1320	1073	1790	1856	1733
GPM/FT	53	61.9	53.9	55	51.1	68.8	53	108.3
H.P./RPM						RPM	RPM	RPM
EFF.						1770	1800	1770
AC FT IN								
24 HRS						7.91	8.20	7.66
KW TO								
MOTOR								
KW HOURS								
PER AC FT								
COST								
PER AC/FT								

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P U M P T E S T F I L E R E P O R T

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 Meter V349N-0139
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 !WELL DEPTH 16 TO 785 1966
 !BLANK 340 PERFORATIONS 445
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 !-----

Motor U.S.
 Frame 447TPA

HP 350
 Type RU

Volts 480
 Pump PEERLESS

R.P.M. 1780 Serial 82002293
 Type Oil Lube Turbine

DATE	02/18/66	02/18/66	02/18/66	02/18/66	02/18/97	10/13/99	01/05/00	01/05/00
STANDING								
WATER	297'	297'	297'	297'	297'	275'	284'	284'
DRAW DOWN	30'	35'	35'	40'	48'	30'	47'	35'
PUMPING								
WATER	327'	332'	332'	337'	345'	305'	331'	319'
DISCHARGE								
HEAD						46.2'		
TOTAL								
LIFT	327'	332'	332'	337'	345'	351.2'	331'	319'
G.P.M.	1400	1700	2000	2400	2600	1320	2294	2021
GPM/FT	46.7	48.6	57.1	60	54.2	44	48.8	57.7
H.P./RPM						RPM		
EFF.						1630		
AC FT IN								
24 HRS						5.83		
KW TO								
MOTOR								
KW HOURS								
PER AC FT								
COST								
PER AC/FT								

06/25/2010

S . A . C A M P P U M P C O M P A N Y

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P u m p E s t i m a t e C a l c u l a t i o n s

GRIMMWAY KOTCHIAN DW133 PE1365

CUSTOMER: GRIMMWAY FARMS

WELL # : DW133 PE1365

METER : V349N-013941

LEGAL :

LOCATION: 3/4 MILE WEST OF 90TH ST EAST ON SOUTH SIDE OF AVE K

MOTOR U.S. HP 300/350 VOLTS 480 R.P.M. 1770 SERIAL 82002293
 FRAME 445TPA TYPE: RU PUMP: PEERLESS TYPE: Oil Lube Turbine

13 STAGES 12"NKLA13 WESTERN LAND ROLLER 9-16-83

G.P.M.	LAB	HEAD	B HP	BOWL	EFF.	FIELD	INPUT HP	FIELD	EFF.
2000	494.0	329.0	78.0%	430	361.5	60.1 %			
1800	598.0	338.6	82.5%	540	372.1	66.0 %			
1600	676.0	338.2	83.0%	630	371.6	68.5 %			
1400	741.0	334.5	80.5%	700	367.6	67.3 %			
1200	780.0	318.1	76.5%	750	349.6	65.0 %			

DATE OF LAST WORK: 04/22/2010

PUMP SETTING: 480 ft.

AIRLINE: 480 ft.

C.T.S. 0480-10" X 3" X 115/16"

BOWLS: 13 STAGES 12"NKLA13 WESTERN LAND ROLLER 9-16-83

WELL INFORMATION:

16 TO 785 DRILLED 1966

BLANK 340 PERFORATIONS 445

5 LINER AT 422

DW134

TRIPPLICATE

Retain this copy

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Do Not Fill In

No 34690

State Well No. _____

Other Well No. _____

(1) OWNER:

Name Harvey Howard Ranch
 Address 3410 Wilshire Blvd.
Los Angeles, Calif. 90005

(2) LOCATION OF WELL:

County San Diego Owner's number, if any _____
 Township, Range, and Section T-7-N R-10-W Sec 30
 Distance from cities, roads, railroads, etc. _____

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐
 Irrigation ☒ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
 Cable ☐
 Other ☐

(6) CASING INSTALLED:

STEEL: ☒ OTHER: ☐
 SINGLE ☒ DOUBLE ☐

If gravel packed

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0	620	26"	1 1/2"	26"	0	620

Size of shoe or well ring: _____

Size of gravel: No. 4Describe joint: Welded

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen: Wilton

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
320	620	12	(9) 2	2 1/2 x 1/8

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☐ No ☒ To what depth _____ ft.

Were any struts sealed against pollution? Yes ☐ No ☒ If yes, note depth of struts _____

From _____ ft. to _____ ft.

From _____ ft. to _____ ft.

Method of sealing _____

(9) WATER LEVELS:

Depth at which water was first found, if known 335 ft.

Standing level before perforating, if known _____ ft.

Standing level after perforating and developing _____ ft.

(10) WELL TESTS:

Was pump test made? Yes ☒ No ☐ If yes, by whom? Pearless Pump

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☒

Was electric log made of well? Yes ☐ No ☒ If yes, attach copy _____

(11) WELL LOG:

Total depth 666 ft. Depth of completed well 620 ft.

Formation: Describe by color, character, size of material, and structure

ft. to _____ ft.

0 - 30 Soil

30 - 90 Mostly clay, little sand

90 - 160 Brown clay, some fine sand

160 - 210 Red to coarse sand, clay

210 - 270 Red to coarse sand, some clay

270 - 520 Brown clay, coarse sand

520 - 621 Red to coarse sand, some clay

621 - 643 Hard packed sand, boulders

643 - 666 Hard packed sand, boulders

"WATER PERFORMANCE"

3200 GPM @ 100 feet

1600 " @ 365 "

1400 " @ 360 "

1500 " @ 365 "

2000 " @ 370 "

2200 " @ 375 "

Work started 3/30/68, Completed 4/9/68 19

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Lottman Drilling Company
 (Person, firm, or corporation) (Typed or printed)

Address 121 West Avenue I
Lancaster, Calif. 93531

[SIGNED] [Signature]
 (Well Driller)

License No. 117561 Dated 4/25/68, 19

SKETCH LOCATION OF WELL ON REVERSE SIDE

06/18/2012

S. A. CAMP PUMP COMPANY

PUMP TEST REPORT

GRIMMWAY KOTCHIAN DW134 PE261

CUSTOMER : GRIMMWAY FARMS
WELL # : DW134 PE261
METER : ENGINE
LEGAL :
LOCATION : 1 MILE WEST OF 90TH ST EAST 1/2 MILE SOUTH OF AVE K AND
1/4 MILE EAST
TEST DATE : 06/18/2012

EQUIPMENT

GEARHEAD DERAN HP 500 Ratio 5 : 6 R.P.M. 1760 Serial C710078
Frame: Type:
Pump : PEERLESS Type: Oil Lube Turbine

TEST RESULTS

Standing Water Level below Surface of Ground		311 FT
Draw Down From Standing to Pumping Level		32 FT
Pumping Water Level		343 FT
Discharge Head Above Ground	GA-82.0	189.4 FT
TOTAL LIFT		532.4 FT
WATER PUMPED		1991 GPM.
Yield of Well (G.P.M. per foot Draw Down)		62.2 GPM/FT
GEARHEAD R.P.M.		1770 R.P.M
OVERALL PLANT EFFICIENCY		%
Acre Foot in 24 Hours		8.80
Kilowatt Input to Motor		
Kilowatt Hours/Acre Foot Pumped		
Average Cost per KW		
Cost Per Acre Foot		

APPEARS TO BE OFF 500 TO 600 GPM

ID: 121/4 117.8
SCALE: 16.90
AIRLINE:

TEST ENGINEER T COKER

Name	GRIMMWAY FARMS	PUMP DATA	INSTALLATION DATE 06/06/2007
Well	DW134 PE261	PUMP SETTING	440
Meter	ENGINE	AIRLINE	260 GAL 180 1/4 STAINLESS
Legal		CT&S SIZE	12 X 31/2 X 23/16
Location	1 MILE WEST OF 90TH ST EAST	BOWLS	8 STAGES 14FKH8
	1/2 MILE SOUTH OF AVE K AND	WELL DEPTH	16 TO 620 DRILLED 1968
	1/4 MILE EAST		BLANK 320 PERFORATIONS 300

GEARHEAD DERAN HP 500 Ratio 5 : 6 R.P.M. 1760 Serial C710078
Frame Type Pump PEERLESS Type Oil Lube Turbine

DATE	09/17/02	09/18/03	10/08/04	09/17/05	09/11/06	10/11/07	08/08/08	06/19/10
STANDING								
WATER	311'	304'	325'	315'	301'	305'	336'	331'
DRAW DOWN	25'	27'	32'	26'	26'	25'	29'	23'
PUMPING								
WATER	336'	331'	357'	341'	327'	330'	365'	354'
DISCHARGE								
HEAD	69.3'	78.5'	69.3'	69.3'	80.9'	69.3'	34.7'	194'
TOTAL								
LIFT	405.3'	409.5'	426.3'	410.3'	407.9'	399.3'	399.7'	548'
G.P.M.	1944	1920	2062	1944	2026	2014	3240	2474
GPM/FT	77.8	71.1	64.4	74.8	77.9	80.6	111.7	107.6
H.P./RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM	RPM
EFF.	1770	1770	1770	1770	1770	1770	1800	1730
AC FT IN								
24 HRS	8.59	8.48	9.11	8.59	8.95	8.90	14.32	10.93
KW TO								
MOTOR								
KW HOURS								
PER AC FT								
COST								
PER AC/FT								

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!PUMP DATA INSTALLATION DATE 06/06/2007
!PUMP SETTING 440
!AIRLINE      260 GAL 180 1/4 STAINLESS
!CT&S SIZE    12 X 31/2 X 23/16
!BOWLS        8 STAGES 14FKHA8
!WELL DEPTH   16 TO 620 DRILLED 1968
!
!              BLANK 320 PERFORATIONS 300
!

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DATE	01/08/00	01/08/00	01/08/00	01/08/00	10/04/00	10/16/01	05/28/02	05/28/02
STANDING								
WATER	298'	298'	298'	298'	301'	313'	313'	313'
DRAW DOWN	35.3'	42'	23'	23'	24'	25'	35'	35'
PUMPING								
WATER	333.3'	340'	321'	321'	325'	338'	348'	348'
DISCHARGE								
HEAD					46.2'	57.8'	4'	18'
TOTAL								
LIFT	333.3'	340'	321'	321'	371.2'	395.8'	352'	366'
G.P.M.	2393	2747	1708	1196	2356	2297	2474	2509
GPM/FT	67.8	65.4	74.3	52	98.2	91.9	70.7	71.7
H.P./RPM					RPM	RPM	RPM	RPM
EFF.					1770	1770	1770	1800

AC FT IN							
24 HRS	1.05		7.55		10.41	10.15	10.93
KW TO							
MOTOR							
KW HOURS							
PER AC FT							
COST							
PER AC/FT							

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P U M P T E S T F I L E R E P O R T
GRIMMWAY KOTCHIAN DW134 PE261

Name GRIMMWAY FARMS
Well DW134 PE261
Meter ENGINE
Legal
Location 1 MILE WEST OF 90TH ST EAST
1/2 MILE SOUTH OF AVE K AND
1/4 MILE EAST

PUMP DATA INSTALLATION DATE 06/06/2007
PUMP SETTING 440
AIRLINE 260 GAL 180 1/4 STAINLESS
CT&S SIZE 12 X 31/2 X 23/16
BOWLS 8 STAGES 14FKHA8
WELL DEPTH 16 TO 620 DRILLED 1968
BLANK 320 PERFORATIONS 300

GEARHEAD DERAN HP 500 Ratio 5 : 6 R.P.M. 1760 Serial C710078
Frame Type Pump PEERLESS Type Oil Lube Turbine

DATE	04/25/68	04/25/68	04/25/68	04/25/68	04/25/68	04/25/68	10/13/99	01/08/00
STANDING								
WATER	335'	335'	335'	335'	335'	335'	293'	298'
DRAW DOWN	15'	20'	25'	30'	35'	40'	21'	26'
PUMPING								
WATER	350'	355'	360'	365'	370'	375'	314'	324'
DISCHARGE								
HEAD							46.2'	
TOTAL								
LIFT	350'	355'	360'	365'	370'	375'	360.2'	324'
G.P.M.	1200	1400	1600	1800	2000	2200	1604	2013
GPM/FT	80	70	64	60	57.1	55	76.4	77.4
H.P./RPM							RPM	
EFF.							1770	
AC FT IN								
24 HRS							7.09	89
KW TO								
MOTOR								
KW HOURS								
PER AC FT								
COST								
PER AC/FT								

07/08/2012

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P u m p E s t i m a t e C a l c u l a t i o n s

GRIMMWAY KOTCHIAN DW134 PE261

CUSTOMER: GRIMMWAY FARMS

WELL # : DW134 PE261

METER :

LEGAL :

LOCATION: 1 MILE WEST OF 90TH ST EAST 1/2 MILE SOUTH OF AVE K AND
1/4 MILE EASTGEAR HEAD DERAN
FRAMEHP 500 RATIO 5 : 6 R.P.M. 1770 SERIAL C710078
TYPE: PUMP: PEERLESS TYPE: Oil Lube Turbine

8 STAGES 14"FKHA8 FLOWAY

G.P.M.	LAB HEAD	B HP	BOWL EFF.	FIELD HEAD	FIELD INPUT HP	FIELD EFF.
2800	600.0	511.0	84.7%	550	537.9	72.3 %
2600	640.0	505.0	84.9%	600	531.6	74.1 %
2400	688.0	509.5	83.5%	650	536.3	73.5 %
2200	720.0	500.9	81.5%	690	527.3	72.7 %
2000	744.0	488.8	78.5%	720	514.5	70.7 %
1800	768.0	466.4	76.5%	740	490.9	68.5 %

DATE OF LAST WORK: 06/06/2007

PUMP SETTING: 440 ft.

AIRLINE: 440 ft.

C.T.S. 0440-12" X 31/2" X 23/16"

BOWLS: 8 STAGES 14"FKHA8 FLOWAY

WELL INFORMATION:

16 TO 620 DRILLED 1968

BLANK 320 PERORATIONS 300

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

05/18/2012

S. A. CAMP PUMP COMPANY

PUMP TEST REPORT

GRIMMWAY KOTCHIAN DW224 PE262

CUSTOMER : GRIMMWAY FARMS
WELL # : DW224 PE262 KOTCHIAN
METER : ENGINE
LEGAL :
LOCATION : 1 MILE WEST OF 90 TH STREET EAST AND 1/4 MILE SOUTH
TEST DATE : 06/18/2012

EQUIPMENT

GEARHEAD DERAN HP 500 Ratio 5 : 6 R.P.M. 1760 Serial B803004
Frame: Type:
Pump : GOULDS Type: Oil Lube Turbine

TEST RESULTS

Standing Water Level below Surface of Ground	GA-90.0	316 FT
Draw Down From Standing to Pumping Level		56 FT
Pumping Water Level	GA-66.0	372 FT
Discharge Head Above Ground	GA-80.0	184.8 FT
TOTAL LIFT		556.8 FT
WATER PUMPED		1767 GPM.
Yield of Well (G.P.M. per foot Draw Down)		31.6 GPM/FT
GEARHEAD R.P.M.		1770 R.P.M
OVERALL PLANT EFFICIENCY		%
Acre Foot in 24 Hours		7.81
Kilowatt Input to Motor		
Kilowatt Hours/Acre Foot Pumped		
Average Cost per KW		
Cost Per Acre Foot		

OFF APPROXIMATELY 500 GPM CUSTOMERS METER 2000 GPM OFF
200 GPM

ID: 121/4 117.8
SCALE: 15
AIRLINE: 524

TEST ENGINEER TROYCE COKE

GRIMMAY KOTCHIAN DN224 PE262

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PUMP DATA INSTALLATION DATE 12/22/2005
PUMP SETTING 520
AIRLINE 524
CT&S SIZE 10 X 31/2 X 23/16
BOWLS 13 STAGES 12DEHC 95
WELL DEPTH 16 TO 650 DRILLED 2003
BLANK 340 PERFORATIONS 300

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Type Oil Lube Turbine

DATE	06/18/12						
STANDING							
WATER	316'						
DRAW DOWN	56'						
PUMPING							
WATER	372'						
DISCHARGE							
HEAD	184.8'						
TOTAL							
LIFT	556.8'						
G.P.M.	1767						
GPM/FT	31.6						
H.P./RPM	RPM						
EFF.	1770						
AC FT IN							
24 HRS	7.81						
KW TO							
MOTOR							
KW HOURS							
PER AC FT							
COST							
PER AC/FT							

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P U M P T E S T F I L E R E P O R T

GRIMMWAY KOTCHIAN DW224 PE262

Name GRIMMWAY FARMS
 Well DW224 PE262 KOTCHIAN
 Meter ENGINE
 Legal
 Location 1 MILE WEST OF 90 TH STREET
 EAST AND 1/4 MILE SOUTH

PUMP DATA INSTALLATION DATE 12/22/2005
 PUMP SETTING 520
 AIRLINE 524
 CT&S SIZE 10 X 31/2 X 23/16
 BOWLS 13 STAGES 12DHEC 95
 WELL DEPTH 16 TO 650 DRILLED 2003
 BLANK 340 PERFORATIONS 300

GEARHEAD DERAN

HP 500

Ratio 5 : 6

R.P.M. 1760 Serial B803004

Frame

Type

Pump GOULDS

Type Oil Lube Turbine

DATE	03/04/03	09/18/03	06/13/05	09/17/05	09/11/06	08/02/08	06/19/10	08/16/11
STANDING								
WATER	296'	305'	316'	316'	300'	337'	320'	339'
DRAW DOWN	83'	53'	58'	58'	62'	72'	65'	58'
PUMPING								
WATER	379'	358'	374'	374'	362'	409'	385'	397'
DISCHARGE								
HEAD		226.4'	217.1'	115.5'	104'	92.4'	175.6'	184.5'
TOTAL								
LIFT	379'	584.4'	591.1'	489.5'	466'	501.4'	560.6'	581.5'
G.P.M.	2500	1590	1649	1826	2156	1826	2003	1779
GPM/FT	30.1	30	28.4	31.5	34.8	25.4	30.8	30.7
H.P./RPM		RPM	RPM	RPM	RPM	RPM	RPM	RPM
EFF.		1770	1770	1770	1770	1800	1765	1770
AC FT IN								
24 HRS		7.03	7.29	8.07	9.53	8.07	8.85	7.86
KW TO								
MOTOR								
KW HOURS								
PER AC FT								
COST								
PER AC/FT								

S . A . C A M P P U M P C O M P A N Y

07/08/2012

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P u m p E s t i m a t e C a l c u l a t i o n s

GRIMMWAY KOTCHIAN DW224 PE262

CUSTOMER: GRIMMWAY FARMS

WELL # : KOTCHIAN DW224 PE262

METER : ENGINE

LEGAL :

LOCATION: 1 MILE WEST OF 90TH STREET EAST AND 1/4 MILE SOUTH

GEAR HEAD DERAN
FRAMEHP 500 RATIO 5 : 6 R.P.M. 1770 SERIAL B803004
PUMP: GOULDS TYPE: Oil Lube Turbine

13 STAGES 12"DHA13-C 9 GOULD

G.P.M.	LAB HEAD	B HP	BOWL EFF.	FIELD HEAD	INPUT HP	FIELD EFF.
2600	494.0	448.2	74.0%	380	471.8	52.9 %
2400	598.0	462.9	80.0%	500	487.3	62.2 %
2200	663.0	459.1	82.0%	580	483.3	66.7 %
2000	715.0	450.3	82.0%	640	474.0	68.2 %
1800	747.5	434.6	80.0%	690	457.5	68.6 %
1600	754.0	416.1	75.0%	710	438.0	65.5 %

DATE OF LAST WORK: 11/18/2005

PUMP SETTING: 520 ft.

AIRLINE: 520 ft.

C.T.S. 0520-10" X 3" X 115/16"

BOWLS: 13 STAGES 12"DHA13-C 9 GOULD

WELL INFORMATION:

16 TO 650 DRILLED 03-03

BLANK 340 PERFORATIONS 300

BLANK 640 TO 650