

No pump test for 2001

on B Well from

So. Calif. Edison Co.



CONFIDENTIAL/PROPRIETARY INFORMATION

2002

October 4, 2002

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - B WELL  
14551 W AVE B

CUST #: 0-007-7591 SERV ACCT #: 018-2022-56  
DATE OF TEST: October 2, 2002

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact GARY PARDUE at (661)726-5662.

EQUIPMENT

PUMP: L & B NO: 72824  
MOTOR: WH NO: 229V8908 125 HP  
METER: 3412M0-20  
HYDRAULIC TEST REFERENCE NUMBER: 10589

TEST RESULTS

Discharge Pressure, PSI	50.5
Standing Water Level, Ft.	282.4
Drawdown, Ft.	23.1
Discharge Head, Ft.	116.7
Pumping Water Level, Ft.	305.5
Total Head, Ft.	422.2
Capacity, GPM	850.0
GPM per Ft. Drawdown	36.8
Acre Ft. Pumped in 24 Hrs.	3.757
kW Input to Motor	93.0
HP Input to Motor	124.7
Motor Load (%)	90.8
Measured Speed of Pump, RPM	1,778
- kWh per Acre Ft.	594
Overall Plant Efficiency (%)	72.7

The pump was running 3 lines during this test.

DAN L. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

October 4, 2002

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 125 - PLANT: B WELL  
CUST #: 0-007-7591 SERV ACCT #: 018-2022-56  
HYDRAULIC TEST REFERENCE NUMBER: 10589

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed October 2, 2002 and billing history for the past 12 months.

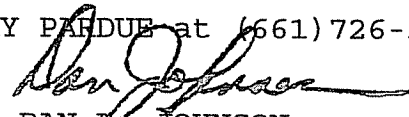
EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	188,820
kW Input	93.0
kWh per Acre Ft.	594
Acre Ft. per Year	317.8
Avg. Cost per kWh	\$0.10
Avg. Cost per Acre Ft.	\$61.36
Overall Plant Eff. (%)	72.7
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TOTAL ANNUAL COST	\$19,499.63

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pump efficiency will be continued.

If you have any questions, please contact GARY PARDUE at (661)726-5662.

  
DAN E. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

August 3, 2003

2003

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - B WELL  
14551 W AVE B  
CUST #: 0-007-7591 - SERV ACCT #: 018-2022-56  
DATE OF TEST: July 28, 2003

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact GARY PARDUE at (661)726-5662.

EQUIPMENT

PUMP: L & B NO: 72824  
MOTOR: WH NO: 229V8908 125 HP  
METER: 3412M0-20  
HYDRAULIC TEST REFERENCE NUMBER: 10589

TEST RESULTS

Discharge Pressure, PSI	58.3
Standing Water Level, Ft.	280.2
Drawdown, Ft.	19.5
Discharge Head, Ft.	134.7
Pumping Water Level, Ft.	299.7
Total Head, Ft.	434.4
Capacity, GPM	716.0
GPM per Ft. Drawdown	36.7
Acre Ft. Pumped in 24 Hrs.	3.165
kW Input to Motor	86.6
HP Input to Motor	116.1
Motor Load (%)	84.5
Measured Speed of Pump, RPM	1,778
- kWh per Acre Ft.	657
Overall Plant Efficiency (%)	67.6

The pump was running 3 lines during this test.

*Dan E. Johnson*  
DAN E. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

August 3, 2003

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 125 - PLANT: B WELL  
CUST #: 0-007-7591 - SERV ACCT #: 018-2022-56  
HYDRAULIC TEST REFERENCE NUMBER: 10589

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed July 28, 2003 and billing history for the past 12 months.

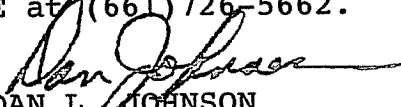
EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	255,156
kW Input	86.6
kWh per Acre Ft.	657
Acre Ft. per Year	388.4
Avg. Cost per kWh	\$0.10
Avg. Cost per Acre Ft.	\$68.81
Overall Plant Eff. (%)	67.6
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TOTAL ANNUAL COST	\$26,729.86

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact GARY PARDUE at (661) 726-5662.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA EDISON

CONFIDENTIAL/PROPRIETARY INFORMATION

September 29, 2004

2004

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - B WELL  
14551 W AVE B  
CUST #: 0-007-7591 - SERV ACCT #: 018-2022-56  
DATE OF TEST: September 28, 2004

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

PUMP: L & B NO: NO PLATE  
MOTOR: WH NO: 229V8908 125 HP  
METER: 3412M0-20  
HYDRAULIC TEST REFERENCE NUMBER: 10589

TEST RESULTS

Discharge Pressure, PSI	34.3
Standing Water Level, Ft.	289.8
Drawdown, Ft.	31.3
Discharge Head, Ft.	79.3
Pumping Water Level, Ft.	321.1
Total Head, Ft.	400.4
Capacity, GPM	975.0
GPM per Ft. Drawdown	31.2
Acre Ft. Pumped in 24 Hrs.	4.310
kW Input to Motor	106.0
HP Input to Motor	142.1
Motor Load (%)	103.5
Measured Speed of Pump, RPM	1,771
- kWh per Acre Ft.	590
Overall Plant Efficiency (%)	69.4

The pump was running to the center pivot during this test.

  
DAN E. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA EDISON

CONFIDENTIAL/PROPRIETARY INFORMATION

September 29, 2004

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 125 - PLANT: B WELL  
CUST #: 0-007-7591 - SERV ACCT #: 018-2022-56  
HYDRAULIC TEST REFERENCE NUMBER: 10589

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed September 28, 2004 and billing history for the past 12 months.

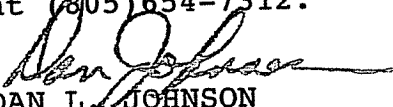
EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	350,256
kW Input	106.0
kWh per Acre Ft.	590
Acre Ft. per Year	593.2
Avg. Cost per kWh	\$0.08
Avg. Cost per Acre Ft.	\$46.06
Overall Plant Eff. (%)	69.4
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TOTAL ANNUAL COST	\$27,322.07

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact RICK KOCH at (805)654-7312.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

September 9, 2005

2005

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - B WELL  
14551 W AVE B  
CUST #: 0-007-7591 - SERV ACCT #: 018-2022-56  
DATE OF TEST: September 7, 2005


In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

PUMP: L & B NO: 72824  
MOTOR: WH NO: 229V8908 125 HP  
METER: 3412M0-20  
HYDRAULIC TEST REFERENCE NUMBER: 10589

TEST RESULTS

Discharge Pressure, PSI	40.5
Standing Water Level, Ft.	292.2
Drawdown, Ft.	31.7
Discharge Head, Ft.	93.6
Pumping Water Level, Ft.	323.9
Total Head, Ft.	417.5
Capacity, GPM	915.0
GPM per Ft. Drawdown	28.9
Acre Ft. Pumped in 24 Hrs.	4.044
kW Input to Motor	101.2
HP Input to Motor	135.7
Motor Load (%)	98.8
Measured Speed of Pump, RPM	1,772
kWh per Acre Ft.	601
Overall Plant Efficiency (%)	71.1
Customer Meter GPM	963.0

  
DAN E. JOHNSON  
Manager  
Hydraulic Services





CONFIDENTIAL/PROPRIETARY INFORMATION

September 9, 2005

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 125 - PLANT: B WELL  
CUST #: 0-007-7591 - SERV ACCT #: 018-2022-56  
HYDRAULIC TEST REFERENCE NUMBER: 10589

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed September 7, 2005 and billing history for the past 12 months.

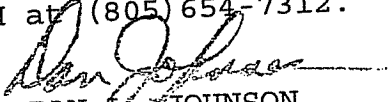
EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	344,772
kW Input	101.2
kWh per Acre Ft.	601
Acre Ft. per Year	574.0
Avg. Cost per kWh	\$0.08
Avg. Cost per Acre Ft.	\$45.83
Overall Plant Eff. (%)	71.1
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TOTAL ANNUAL COST	\$26,306.10

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact RICK KOCH at (805) 654-7312.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services

**Confidential / Proprietary Information**

September 15, 2006



2006

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant: B WELL**

Location: 14551 W AVE B HP: 125  
Cust. #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-20 Pump Ref #: 10589

In accordance with your request, a test was made on your turbine well pump on September 13, 2006. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: L & B No.: 72824  
Motor Mfg.: WH No.: 229V8908

**RESULTS**

Discharge Pressure, PSI	59.3
Standing Water Level, Feet	294.4
Drawdown, Feet	23.9
Discharge Head, Feet	137.0
Pumping Water Level, Feet	318.3
Total Head, Feet	455.3
Capacity, GPM	809.0
GPM per Foot Drawdown	33.8
Acre Feet Pumped in 24 Hours	3.576
kW Input to Motor	98.6
HP Input to Motor	132.2
Motor Load (%)	96.3
Measured Speed of Pump, RPM	1,772
kWh per Acre Foot:	662
Overall Plant Efficiency (%)	70.3
Customer Meter, GPM	849.0

DAN L. JOHNSON  
Manager  
Hydraulic Services

Confidential / Proprietary Information

September 15, 2006



ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261


**PUMPING COST ANALYSIS, Plant: B WELL**  
Location: 14551 W AVE B HP: 125  
Cust. #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-20 Pump Ref #: 10589

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 13, 2006, billing history for the past 12 months, and your current rate of TOU-PA-7B.

	<u>Existing</u>
Total kWh	384,792
kW Input	98.6
kWh per Acre Foot	662
Acre Feet per Year	581.3
Average Cost per kWh	\$0.08
Average Cost per Acre Foot	\$52.34
Overall Plant Efficiency (%)	70.3
<hr/>	<hr/>
Total Annual Cost	\$30,425.50

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential / Proprietary Information**

September 14, 2007

2007

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant: B WELL**

Location: 14551 W AVE B HP: 125  
Cust. #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-20 Pump Ref #: 10589

In accordance with your request, a test was made on your turbine well pump on September 12, 2007. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: L & B No.: 12824  
Motor Mfg.: WH No.: 229V8908

**RESULTS**

Discharge Pressure, PSI	46.5
Standing Water Level, Feet	296.1
Drawdown, Feet	34.8
Discharge Head, Feet	107.4
Pumping Water Level, Feet	330.9
Total Head, Feet	438.3
Capacity, GPM	860.0
GPM per Foot Drawdown	24.7
Acre Feet Pumped in 24 Hours	3.801
kW Input to Motor	101.8
HP Input to Motor	136.5
Motor Load (%)	99.4
Measured Speed of Pump, RPM	1,772
kWh per Acre Foot:	643
Overall Plant Efficiency (%)	69.7
Customer Meter, GPM	920

DAN L. JOHNSON  
Manager  
Hydraulic Services

**Confidential / Proprietary Information**

September 14, 2007



ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: B WELL**  
Location: 14551 W AVE B HP: 125  
Cust. #: 0-007-7591      Serv. Acct. #: 018-2022-56  
Meter: 3412M-20      Pump Ref #: 10589

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 12, 2007, billing history for the past 12 months, and your current rate of TOU-PA-7B.

	<u>Existing</u>
	<b>487,512</b>
Total kWh	<b>101.8</b>
kW Input	<b>643</b>
kWh per Acre Foot	<b>758.3</b>
Acre Feet per Year	<b>\$0.09</b>
Average Cost per kWh	<b>\$57.24</b>
Average Cost per Acre Foot	<b>69.7</b>
Overall Plant Efficiency (%)	
<hr/>	<hr/>
Total Annual Cost	<b>\$43,408.07</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

An EDISON INTERNATIONAL<sup>®</sup> Company

**Confidential/Proprietary Information**

September 19, 2008

2008

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: B WELL  
Location: 14551 W AVE B HP: 125  
Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-20 Pump Ref. #: 10589

In accordance with your request, a test was made on your turbine well pump on September 15, 2008. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

	<b>Equipment</b>	
Pump:	L & B	No: 12824
Motor:	WH	No: 229V8908

<b>Results</b>	
Discharge Pressure, PSI	39.5
Standing Water Level, Feet	302.7
Drawdown, Feet	30.5
Discharge Head, Feet	91.2
Pumping Water Level, Feet	333.2
Total Head, Feet	424.4
Capacity, GPM	899
GPM per Foot Drawdown	29.5
Acre Feet Pumped in 24 Hours	3.974
kW Input to Motor	102.3
HP Input to Motor	137.2
Motor Load (%)	101.3
Measured Speed of Pump, RPM	1,772
kWh per Acre Foot	618
Overall Plant Efficiency (%)	70.2
Customer Meter, GPM	910

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 19, 2008

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant:** B WELL  
 Location: 14551 W AVE B HP: 125  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
 Meter: 3412M-20 Pump Ref. #: 10589

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 15, 2008, billing history for the past 12 months, and your current rate of TOU-PA-7B.

	<u>Existing</u>
	<b>437,028</b>
Total kWh	<b>102.3</b>
kW Input	<b>618</b>
kWh per Acre Foot	<b>707.2</b>
Acre Feet per Year	<b>\$0.09</b>
Average Cost per kWh	<b>\$55.43</b>
Average Cost per Acre Foot	<b>70.2</b>
Overall Plant Efficiency (%)	
	<hr/>
<b>Total Annual Cost</b>	<b>\$39,197.04</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
 Manager  
 Hydraulic Services



**Confidential/Proprietary Information**

September 11, 2009

2009

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant:** B WELL  
Location: 14551 W AVE B HP: 125  
Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-7924 Pump Ref. #: 10589

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 9, 2009. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

	<b>Equipment</b>	
Pump:	L & B	No: 12824
Motor:	WH	No: 229V8908

**Results**

Discharge Pressure, PSI	35.7
Standing Water Level, Feet	308.8
Drawdown, Feet	31.4
Discharge Head, Feet	82.5
Pumping Water Level, Feet	340.2
Total Head, Feet	422.7
Capacity, GPM	893
GPM per Foot Drawdown	28.4
Acre Feet Pumped in 24 Hours	3.947
kW Input to Motor	101.9
HP Input to Motor	136.6
Motor Load (%)	100.9
Measured Speed of Pump, RPM	1,773
Customer Meter, GPM	933
kWh per Acre Foot	620
Overall Plant Efficiency (%)	69.8

DAN L. JOHNSON  
Manager  
Hydraulic Services





**Confidential/Proprietary Information**

September 11, 2009

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: B WELL  
 Location: 14551 W AVE B HP: 125  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
 Meter: 3412M-7924 Pump Ref. #: 10589

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 9, 2009, billing history for the past 12 months, and your current rate of TOU-PA-7B.

	<u>Existing</u>
	<b>370,488</b>
Total kWh	<b>101.9</b>
kW Input	<b>620</b>
kWh per Acre Foot	<b>597.8</b>
Acre Feet per Year	<b>\$0.09</b>
Average Cost per kWh	<b>\$55.85</b>
Average Cost per Acre Foot	<b>69.8</b>
Overall Plant Efficiency (%)	
<hr/>	
Total Annual Cost	<b>\$33,388.38</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
 Manager  
 Hydraulic Services



**Confidential/Proprietary Information**

October 8, 2010

2010

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: B WELL  
Location: 14551 W AVE B HP: 125  
Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-7924 Pump Ref. #: 10589

In accordance with your request, an energy efficiency test was performed on your turbine well pump on October 5, 2010. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

		Equipment	
Pump:	L & B	No:	12824
Motor:	WH	No:	229V8908

**Results**

Discharge Pressure, PSI	54.1
Standing Water Level, Feet	286.0
Drawdown, Feet	28.6
Discharge Head, Feet	125.0
Pumping Water Level, Feet	314.6
Total Head, Feet	439.6
Capacity, GPM	850
GPM per Foot Drawdown	29.7
Acre Feet Pumped in 24 Hours	3.757
kW Input to Motor	100.7
HP Input to Motor	135.0
Motor Load (%)	99.7
Measured Speed of Pump, RPM	1,774
Customer Meter, GPM	897
kWh per Acre Foot	643
Overall Plant Efficiency (%)	69.9

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

October 8, 2010

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: B WELL  
 Location: 14551 W AVE B HP: 125  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
 Meter: 3412M-7924 Pump Ref.#: 10589

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on October 5, 2010, billing history for the past 12 months, and your current rate of TOU-PA-B.

	<u>Existing</u>
	<b>290,256</b>
Total kWh	<b>100.7</b>
kW Input	<b>643</b>
kWh per Acre Foot	<b>451.1</b>
<u>Acre Feet per Year</u>	<b>\$0.11</b>
Average Cost per kWh	<b>\$70.10</b>
Average Cost per Acre Foot	<b>69.9</b>
Overall Plant Efficiency (%)	
<hr/>	<hr/>
Total Annual Cost	<b>\$31,623.39</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
 Manager  
 Hydraulic Services



**Confidential/Proprietary Information**

September 9, 2011

2011

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: B-WELL  
Location: 14551 W AVE B HP: 125  
Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-7924 Pump Ref. #: 10589

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 8, 2011. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**  
Pump: L & B No: 12824  
Motor: WH No: 229V8908

**Results**

Discharge Pressure, PSI	39.6
Standing Water Level, Feet	291.0
Drawdown, Feet	28.8
Discharge Head, Feet	91.5
Pumping Water Level, Feet	319.8
Total Head, Feet	411.3
Capacity, GPM	919
GPM per Foot Drawdown	31.9
Acre Feet Pumped in 24 Hours	4.062
kW Input to Motor	102.2
HP Input to Motor	137.1
Motor Load (%)	101.2
Measured Speed of Pump, RPM	1,770
Customer Meter, GPM	958
kWh per Acre Foot	604
Overall Plant Efficiency (%)	69.6

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 9, 2011

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: B WELL**  
Location: 14551 W AVE B HP: 125  
Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-7924 Pump Ref. #: 10589

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 8, 2011, billing history for the past 12 months, and your current rate of TOU-PA-B.

	<u>Existing</u>
Total kWh	375,816
kW Input	102.2
kWh per Acre Foot	604
Acre Feet per Year	622.3
Average Cost per kWh	\$0.11
Average Cost per Acre Foot	\$65.58
Overall Plant Efficiency (%)	69.6
<hr/>	
Total Annual Cost	\$40,806.10

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 14, 2012

2012  
①

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: B WELL  
Location: 14551 W AVE B HP: 125  
Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-7924 Pump Ref. #: 10589

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 10, 2012. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**  
Pump: L & B No: 12824  
Motor: WH No: 229V8908

**Results**

Discharge Pressure, PSI	44.3
Standing Water Level, Feet	259.2
Drawdown, Feet	29.4
Discharge Head, Feet	102.3
Pumping Water Level, Feet	288.6
Total Head, Feet	390.9
Capacity, GPM	985
GPM per Foot Drawdown	33.5
Acre Feet Pumped in 24 Hours	4.354
kW Input to Motor	101.6
HP Input to Motor	136.2
Motor Load (%)	100.6
Measured Speed of Pump, RPM	1,770
Customer Meter, GPM	1,005
kWh per Acre Foot	560
Overall Plant Efficiency (%)	71.4

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 14, 2012

2

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: B WELL  
Location: 14551 W AVE B HP: 125  
Cust #: 0-007-7591 Serv. Acct. #: 018-2022-56  
Meter: 3412M-7924 Pump Ref. #: 10589

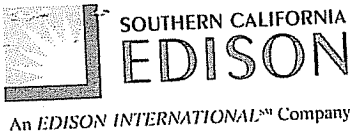
The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 10, 2012, billing history for the past 12 months, and your current rate of TOU-PA-B.

	<u>Existing</u>
	<b>385,524</b>
Total kWh	<b>101.6</b>
kW Input	<b>560</b>
kWh per Acre Foot	<b>688.2</b>
Acre Feet per Year	<b>\$0.10</b>
Average Cost per kWh	<b>\$55.50</b>
Average Cost per Acre Foot	<b>71.4</b>
Overall Plant Efficiency (%)	
<hr/>	<hr/>
Total Annual Cost	<b>\$38,193.86</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

2001

September 21, 2001

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - YARD WELL  
51251 140TH ST W  
CUST #: 0-007-7591 SERV ACCT #: 018-2031-52  
DATE OF TEST: September 19, 2001

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact GARY PARDUE at (661)726-5662.

EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: US NO: 1291749 125 HP  
METER: P831W-48  
HYDRAULIC TEST REFERENCE NUMBER: 10590

TEST RESULTS	TEST 1	TEST 2	TEST 3
Discharge Pressure, PSI	31.7	39.3	50.0
Standing Water Level, Ft.	254.6	254.6	254.6
Drawdown, Ft.	12.2	11.1	9.7
Discharge Head, Ft.	73.2	90.8	115.5
Pumping Water Level, Ft.	266.8	265.7	264.3
Total Head, Ft.	340.0	356.5	379.8
Capacity, GPM	936.0	840.0	700.0
GPM per Ft. Drawdown	76.7	75.7	72.2
Acre Ft. Pumped in 24 Hrs.	4.137	3.713	3.094
kW Input to Motor	98.2	95.1	89.2
HP Input to Motor	131.7	127.5	119.6
Motor Load (%)	95.9	92.8	87.1
Measured Speed of Pump, RPM	1781		
kWh per Acre Ft.	570	615	692
Overall Plant Efficiency (%)	61.0	59.3	56.1

The above test results indicate various operating conditions of this pump. The pump was running 5 lines for test 1, 4 lines for test 2, and 3 lines for test 3.

DAN JOHNSON  
Manager  
Hydraulic Services





CONFIDENTIAL/PROPRIETARY INFORMATION

September 21, 2001

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 125 - PLANT: YARD WELL  
CUST #: 0-007-7591 SERV ACCT #: 018-2031-52  
HYDRAULIC TEST REFERENCE NUMBER: 10590

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed September 19, 2001 and billing history for the past 12 months.

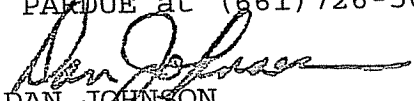
EXISTING PLANT EFFICIENCY  
TOU-PA-SOP  
Current Rate

Total kWh	239388
kW Input	98.2
kWh per Acre Ft.	570
Acre Ft. per Year	420.1
Avg. Cost per kWh	\$0.07
Avg. Cost per Acre Ft.	\$41.77
Overall Plant Eff. (%)	61.0
-----	-----
TOTAL ANNUAL COST	\$17,549.53

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pump efficiency will be continued.

If you have any questions, please contact GARY PARDUE at (661)726-5662.

  
DAN JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

2002

October 4, 2002

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - YARD WELL  
51251 140TH ST W  
CUST #: 0-007-7591 SERV ACCT #: 018-2031-52  
DATE OF TEST: October 1, 2002

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact GARY PARDUE at (661)726-5662.

EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: US NO: 1291749 150 HP  
METER: P831W-48  
HYDRAULIC TEST REFERENCE NUMBER: 10590

TEST RESULTS

Discharge Pressure, PSI	47.7
Standing Water Level, Ft.	267.2
Drawdown, Ft.	17.4
Discharge Head, Ft.	110.2
Pumping Water Level, Ft.	284.6
Total Head, Ft.	394.8
Capacity, GPM	1,135.0
GPM per Ft. Drawdown	65.2
Acre Ft. Pumped in 24 Hrs.	5.017
kW Input to Motor	126.6
HP Input to Motor	169.8
Motor Load (%)	103.6
Measured Speed of Pump, RPM	1,777
- kWh per Acre Ft.	606
Overall Plant Efficiency (%)	66.7

The pump was running 5 lines during this test.

DAN L. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

October 4, 2002

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 150 - PLANT: YARD WELL  
CUST #: 0-007-7591 SERV ACCT #: 018-2031-52  
HYDRAULIC TEST REFERENCE NUMBER: 10590

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed October 1, 2002 and billing history for the past 12 months.

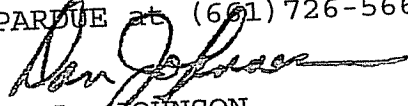
EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	464,964
kW Input	126.6
kWh per Acre Ft.	606
Acre Ft. per Year	767.6
Avg. Cost per kWh	\$0.10
Avg. Cost per Acre Ft.	\$58.00
Overall Plant Eff. (%)	66.7
-----	
TOTAL ANNUAL COST	\$44,522.16

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pump efficiency will be continued.

If you have any questions, please contact GARY PARDUE at (661) 726-5662.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

August 3, 2003

2003

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - YARD WELL  
51251 140TH ST W  
CUST #: 0-007-7591 - SERV ACCT #: 018-2031-52  
DATE OF TEST: July 28, 2003

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact GARY PARDUE at (661)726-5662.

EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: US NO: 1291749 150 HP  
METER: P831W-48  
HYDRAULIC TEST REFERENCE NUMBER: 10590

TEST RESULTS

Discharge Pressure, PSI	53.5
Standing Water Level, Ft.	272.8
Drawdown, Ft.	14.2
Discharge Head, Ft.	123.6
Pumping Water Level, Ft.	287.0
Total Head, Ft.	410.6
Capacity, GPM	1,054.0
GPM per Ft. Drawdown	74.2
Acre Ft. Pumped in 24 Hrs.	4.659
kW Input to Motor	122.9
HP Input to Motor	164.8
Motor Load (%)	100.5
Measured Speed of Pump, RPM	1,769
- kWh per Acre Ft.	633
Overall Plant Efficiency (%)	66.3

The pump was running 5 lines during this test.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

August 3, 2003

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 150 - PLANT: YARD WELL  
CUST #: 0-007-7591 - SERV ACCT #: 018-2031-52  
HYDRAULIC TEST REFERENCE NUMBER: 10590

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed July 28, 2003 and billing history for the past 12 months.

EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	516,672
kW Input	122.9
kWh per Acre Ft.	633
Acre Ft. per Year	815.9
Avg. Cost per kWh	\$0.10
Avg. Cost per Acre Ft.	\$65.50
Overall Plant Eff. (%)	66.3
-----	
TOTAL ANNUAL COST	\$53,442.43

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact GARY PARDUE at (661) 726-5662.

DAN E. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA EDISON

CONFIDENTIAL/PROPRIETARY INFORMATION

August 27, 2004

*2004*

ATTN: JOHN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - YARD WELL  
51251 140TH ST W  
CUST #: 0-007-7591 - SERV ACCT #: 018-2031-52  
DATE OF TEST: August 25, 2004

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: US NO: 1291749 150 HP  
METER: P831W-48  
HYDRAULIC TEST REFERENCE NUMBER: 10590

TEST RESULTS

Discharge Pressure, PSI	41.1
Standing Water Level, Ft.	275.4
Drawdown, Ft.	16.2
Discharge Head, Ft.	94.9
Pumping Water Level, Ft.	291.6
Total Head, Ft.	386.5
Capacity, GPM	1,039.0
GPM per Ft. Drawdown	64.1
Acre Ft. Pumped in 24 Hrs.	4.592
kW Input to Motor	126.5
HP Input to Motor	169.6
Motor Load (%)	103.5
Measured Speed of Pump, RPM	1,774
- kWh per Acre Ft.	661 -
Overall Plant Efficiency (%)	59.8

*Dan Johnson*  
DAN L JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA EDISON

CONFIDENTIAL/PROPRIETARY INFORMATION

August 27, 2004

ATTN: JOHN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS - HP: 150 - PLANT: YARD WELL  
 CUST #: 0-007-7591 - SERV ACCT #: 018-2031-52  
 HYDRAULIC TEST REFERENCE NUMBER: 10590

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed August 25, 2004 and billing history for the past 12 months.

It is recommended and assumed that:

1. Overall plant efficiency can be improved from 59.8% to 70.0%. These improvements can save you up to 81,446 kWh annually.
2. Water requirements will be the same as for the past year.
3. All operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test.

	EXISTING PLANT EFFICIENCY TOU-PA-7B Current Rate	IMPROVED PLANT EFFICIENCY TOU-PA-7B Current Rate	Savings
Total kWh	557,808	476,362	81,446
kW Input	126.5	108.0	18.5
kWh per Acre Ft.	661	565	97
Acre Ft. per Year	843.6	843.6	
Avg. Cost per kWh	\$0.08		
Avg. Cost per Acre Ft.	\$51.18	\$43.71	\$7.47
Overall Plant Eff. (%)	59.8	70.0	
<b>TOTAL ANNUAL COST</b>	<b>\$43,174.34</b>	<b>\$36,870.43</b>	<b>\$6,303.91</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact RICK KOCH at (805) 654-7312.

*[Signature]*  
 DANIEL JOHNSON  
 Manager  
 Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

September 9, 2005

2005

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - YARD WELL  
51251 140TH ST W  
CUST #: 0-007-7591 - SERV ACCT #: 018-2031-52  
DATE OF TEST: September 7, 2005

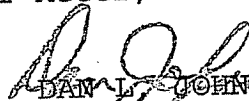
In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

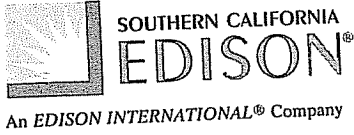
PUMP: PEERL NO: NO PLATE  
MOTOR: US NO: 1291749 150 HP  
METER: P831W-48  
HYDRAULIC TEST REFERENCE NUMBER: 10590

TEST RESULTS

Discharge Pressure, PSI	35.5
Standing Water Level, Ft.	277.5
Drawdown, Ft.	16.1
Discharge Head, Ft.	82.0
Pumping Water Level, Ft.	293.6
Total Head, Ft.	375.6
Capacity, GPM	1,135.0
GPM per Ft. Drawdown	70.5
Acre Ft. Pumped in 24 Hrs.	5.017
kW Input to Motor	125.5
HP Input to Motor	168.3
Motor Load (%)	102.7
Measured Speed of Pump, RPM	1,770
kWh per Acre Ft.	601
Overall Plant Efficiency (%)	64.0
Customer Meter, GPM	1,116.0

  
DAN L. JOHNSON  
Manager  
Hydraulic Services





CONFIDENTIAL/PROPRIETARY INFORMATION

September 9, 2005

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS - HP: 150 - PLANT: YARD WELL  
 CUST #: 0-007-7591 - SERV ACCT #: 018-2031-52  
 HYDRAULIC TEST REFERENCE NUMBER: 10590

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed September 7, 2005 and billing history for the past 12 months.

It is recommended and assumed that:

1. Overall plant efficiency can be improved from 64.0% to 70.0%. These improvements can save you up to 44,103 kWh annually.
2. Water requirements will be the same as for the past year.
3. All operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test.

	EXISTING PLANT EFFICIENCY TOU-PA-7B Current Rate	IMPROVED PLANT EFFICIENCY TOU-PA-7B Current Rate	Savings
Total kWh	511,692	467,589	44,103
kW Input	125.5	114.7	10.8
kWh per Acre Ft.	601	549	52
Acre Ft. per Year	852.1	852.1	
Avg. Cost per kWh	\$0.08		
Avg. Cost per Acre Ft.	\$45.10	\$41.21	\$3.89
Overall Plant Eff. (%)	64.0	70.0	
<b>TOTAL ANNUAL COST</b>	<b>\$38,428.07</b>	<b>\$35,115.94</b>	<b>\$3,312.13</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact RICK KOCH at (805) 654-7312.

*[Signature]*  
 DAN L. JOHNSON  
 Manager  
 Hydraulic Services



Confidential / Proprietary Information

September 15, 2006

*2006*

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant: YARD WELL**  
Location: 51251 140TH ST W HP: 150  
Cust. #: 0-007-7591 Serv. Acct. #: 018-2031-52 *OK*  
Meter: P831W-48 Pump Ref #: 10590

In accordance with your request, a test was made on your turbine well pump on September 11, 2006. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: PEERL No.: NO PLATE  
Motor Mfg.: US No.: 1291749

**RESULTS**

Discharge Pressure, PSI	36.0
Standing Water Level, Feet	280.8
Drawdown, Feet	13.1
Discharge Head, Feet	83.2
Pumping Water Level, Feet	293.9
Total Head, Feet	377.1
Capacity, GPM	1,120.0
GPM per Foot Drawdown	85.5
Acre Feet Pumped in 24 Hours	4.950
kW Input to Motor	124.5
HP Input to Motor	167.0
Motor Load (%)	101.8
Measured Speed of Pump, RPM	1,770
kWh per Acre Foot:	604
Overall Plant Efficiency (%)	63.9
Customer Meter, GPM	1,172.0

DAN L. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA  
**EDISON**  
 An EDISON INTERNATIONAL® Company  
 September 15, 2006

**Save energy,  
 Save money...  
 Your test results show that you can!**

**PUMPING COST ANALYSIS, Plant: YARD WELL**  
 Location: 51251 140TH ST W HP: 150  
 Cust. #: 0-007-7591 Serv. Acct. #: 018-2031-52  
 Meter: P831W-48 Pump Ref #: 10590

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

Dear SCE Customer:

Helping California businesses save energy and money is a major goal at SCE. As you know, our technical specialists performed a free pump-efficiency test on one or more pumps at your facility on September 11, 2006. We thank you for the opportunity to provide this service, and appreciate your interest in the performance of your pumps.

The results of the testing, shown in the table below, indicate that the pump listed above has the potential for improved Overall Plant Efficiency (OPE), lower energy costs, and a cash incentive.

	Plant Efficiency		Savings
	Existing	Improved	
Total kWh	557,520	508,796	48,724
kW Input	124.5	113.6	10.9
kWh per Acre Foot	604	551	53
Acre Feet per Year	923.5		
Average Cost per kWh	\$0.08		
Average Cost per Acre Foot	\$46.24	\$42.20	\$4.04
Overall Plant Efficiency (%)	63.9	70.0	
<hr/>			
Total Annual Cost	\$42,700.46	\$38,968.68	\$3,731.77
Cash Incentive			\$3,897.92

Case studies show that repairing, retrofitting, or replacing inefficient pumps can save energy and money, and may even help you avoid serious operational problems. For your business, this could mean the following:

- **Improved Plant Efficiency:** Your OPE can be improved from 63.9% to 70.0%.
- **Lower Energy Costs:** Based on the test data, your past energy usage, and your current rate of TOU-PA-7B, we estimate that you may save up to 48,724 kWh annually, resulting in energy cost savings of \$3,731.77.
- **Cash Incentive:** Through the retrofit and installation of more energy-efficient equipment, you would receive an incentive of \$0.08 per kWh saved, courtesy of SCE's Agricultural Energy Efficiency Program. Based on your estimated kWh savings, you would be eligible for a potential cash incentive of \$3,897.92, capped at 50% of your project cost. (See contract for details.)

You may also be eligible for pump motor incentives. For more information about your test results, options, and incentive opportunities, contact RICK KOCH at (805)654-7312.

We encourage you to review your results and take advantage of SCE's energy efficiency expertise and incentives. Visit [www.sce.com/rebatesandsavings](http://www.sce.com/rebatesandsavings), or give us a call and let us know how we can be of further service to you.

Sincerely,

Southern California Edison

Program funded by California utility ratepayers, and administered by Southern California Edison under the auspices of the California Public Utilities Commission.

**Confidential / Proprietary Information**

September 14, 2007



2007

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: YARD WELL  
Location: 51251 140TH ST W HP: 150  
Cust. #: 0-007-7591 Serv. Acct. #: 018-2031-52  
Meter: P831W-48 Pump Ref #: 10590

In accordance with your request, a test was made on your turbine well pump on September 12, 2007. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: PEERL No.: NO PLATE  
Motor Mfg.: US No.: 1291749

**RESULTS**

Discharge Pressure, PSI	46.4
Standing Water Level, Feet	283.2
Drawdown, Feet	14.4
Discharge Head, Feet	107.2
Pumping Water Level, Feet	297.6
Total Head, Feet	404.8
Capacity, GPM	1,010.0
GPM per Foot Drawdown	70.1
Acre Feet Pumped in 24 Hours	4.464
kW Input to Motor	122.0
HP Input to Motor	163.6
Motor Load (%)	99.8
Measured Speed of Pump, RPM	1,772
kWh per Acre Foot:	656
Overall Plant Efficiency (%)	63.1
Customer Meter, GPM	965

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential / Proprietary Information**

September 14, 2007

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: YARD WELL**  
 Location: 51251 140TH ST W HP: 150  
 Cust. #: 0-007-7591 Serv. Acct. #: 018-2031-52  
 Meter: P831W-48 Pump Ref #: 10590

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 12, 2007, billing history for the past 12 months, and your current rate of TOU-PA-7B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall Plant Efficiency can be improved from 63.1% to 70.0%.
2. This can save you up to 66,436 kWh and \$5,829.72 annually.

	Plant Efficiency		<u>Savings</u>
	<u>Existing</u>	<u>Improved</u>	
Total kWh	674,676	608,240	66,436
kW Input	122.0	110.0	12.0
kWh per Acre Foot	656	591	65
Acre Feet per Year	1,028.5		
Average Cost per kWh	\$0.09		
Average Cost per Acre Foot	\$57.56	\$51.90	\$5.67
Overall Plant Efficiency (%)	63.1	70.0	
<hr/> Total Annual Cost	<hr/> \$59,202.82	<hr/> \$53,373.10	<hr/> \$5,829.72

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
 Manager  
 Hydraulic Services



**Confidential/Proprietary Information**

September 19, 2008

*2008*

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: YARD WELL  
Location: 51251 140TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
Meter: 345M-6685 Pump Ref. #: 10590

In accordance with your request, a test was made on your turbine well pump on September 15, 2008. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**

Pump: PEERL No: NO PLATE  
Motor: US No: 1291749

**Results**

Discharge Pressure, PSI	35.0
Standing Water Level, Feet	286.0
Drawdown, Feet	15.4
Discharge Head, Feet	80.9
Pumping Water Level, Feet	301.4
Total Head, Feet	382.3
Capacity, GPM	1,102
GPM per Foot Drawdown	71.6
Acre Feet Pumped in 24 Hours	4.871
kW Input to Motor	123.3
HP Input to Motor	165.3
Motor Load (%)	102.5
Measured Speed of Pump, RPM	1,770
kWh per Acre Foot	608
Overall Plant Efficiency (%)	64.3
Customer Meter, GPM	1,055

*not correct see next page*

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 19, 2008

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: YARD WELL  
 Location: 51251 140TH ST W HP: 150  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
 Meter: 345M-6685 Pump Ref. #: 10590

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 15, 2008, billing history for the past 12 months, and your current rate of TOU-PA-7B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 64.3% to 70.0%.
2. This can save you up to 48,913 kWh and \$4,239.25 annually.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	605,208	556,295	48,913
kW Input	123.3	113.3	10.0
kWh per Acre Foot	608	559	49
Acre Feet per Year	996.0		
Average Cost per kWh	\$0.09	\$48.41	\$4.26
Average Cost per Acre Foot	\$52.66	70.0	
Overall Plant Efficiency (%)	64.3		
<b>Total Annual Cost</b>	<b>\$52,453.38</b>	<b>\$48,214.12</b>	<b>\$4,239.25</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
 Manager  
 Hydraulic Services



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**EDISON**<sup>®</sup>

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September 11, 2009

2009

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: YARD WELL  
Location: 51251 140TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
Meter: 345M-6685 Pump Ref. #: 10590

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 8, 2009. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

Equipment		
Pump:	PEERL	No: NO PLATE
Motor:	US	No: 1291749

**Results**

Discharge Pressure, PSI	33.8
Standing Water Level, Feet	288.0
Drawdown, Feet	15.5
Discharge Head, Feet	78.1
Pumping Water Level, Feet	303.5
Total Head, Feet	381.6
Capacity, GPM	1,076
GPM per Foot Drawdown	69.4
Acre Feet Pumped in 24 Hours	4.756
kW Input to Motor	123.1
HP Input to Motor	165.1
Motor Load (%)	102.3
Measured Speed of Pump, RPM	1,772
Customer Meter, GPM	1,080
kWh per Acre Foot	621
Overall Plant Efficiency (%)	62.8

DAN L. JOHNSON  
Manager  
Hydraulic Services





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September 11, 2009

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant:** YARD WELL  
Location: 51251 140TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
Meter: 345M-6685 Pump Ref. #: 10590

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 8, 2009, billing history for the past 12 months, and your current rate of TOU-PA-7B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 62.8% to 70.0%.
2. This can save you up to 49,376 kWh and \$4,337.65 annually.
3. These kWh savings translate to a 21-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	480,804	431,428	49,376
kW Input	123.1	110.5	12.6
kWh per Acre Foot	621	558	64
Acre Feet per Year	773.8		
Average Cost per kWh	\$0.09		
Average Cost per Acre Foot	\$54.58	\$48.98	\$5.61
Overall Plant Efficiency (%)	62.8	70.0	
<b>Total Annual Cost</b>	<b>\$42,238.63</b>	<b>\$37,900.98</b>	<b>\$4,337.65</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



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October 8, 2010

2010

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: YARD WELL  
Location: 51251 140TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
Meter: 345M-6685 Pump Ref. #: 10590

In accordance with your request, an energy efficiency test was performed on your turbine well pump on October 5, 2010. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

	<b>Equipment</b>	
Pump:	PEERL	No: NO PLATE
Motor:	US	No: 1291749

**Results -**

Discharge Pressure, PSI	52.2
Standing Water Level, Feet	278.8
Drawdown, Feet	13.7
Discharge Head, Feet	120.6
Pumping Water Level, Feet	292.5
Total Head, Feet	413.1
Capacity, GPM	936
GPM per Foot Drawdown	68.3
Acre Feet Pumped in 24 Hours	4.137
kW Input to Motor	118.0
HP Input to Motor	158.2
Motor Load (%)	98.1
Measured Speed of Pump, RPM	1,764
Customer Meter, GPM	941
<b>kWh per Acre Foot</b>	<b>685</b>
<b>Overall Plant Efficiency (%)</b>	<b>61.7</b>

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

October 8, 2010

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant:** YARD WELL  
 Location: 51251 140TH ST W HP: 150  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
 Meter: 345M-6685 Pump Ref. #: 10590

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on October 5, 2010, billing history for the past 12 months, and your current rate of TOU-PA-B.

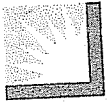
Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 61.7% to 70.0%.
2. This can save you up to 47,970 kWh and \$4,998.01 annually.
3. These kWh savings translate to a 21-ton decrease in CO<sub>2</sub> emissions.

	Existing	Plant Efficiency Improved	Savings
Total kWh	404,844	356,874	47,970
kW Input	118.0	104.0	14.0
kWh per Acre Foot	685	604	81
Acre Feet per Year	591.3		
Average Cost per kWh	\$0.10	\$62.88	\$8.45
Average Cost per Acre Foot	\$71.33	70.0	
Overall Plant Efficiency (%)	61.7		
<b>Total Annual Cost</b>	<b>\$42,180.70</b>	<b>\$37,182.69</b>	<b>\$4,998.01</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
 Manager  
 Hydraulic Services



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September 9, 2011

2011

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: YARD WELL  
Location: 51251 140TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
Meter: 345M-6685 Pump Ref. #: 10590

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 7, 2011. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

	<b>Equipment</b>	
Pump:	PEERL	No: NO PLATE
Motor:	US	No: 1291749

**Results -**

Discharge Pressure, PSI	36.9
Standing Water Level, Feet	276.8
Drawdown, Feet	15.2
Discharge Head, Feet	85.2
Pumping Water Level, Feet	292.0
Total Head, Feet	377.2
Capacity, GPM	1,061
GPM per Foot Drawdown	69.8
Acre Feet Pumped in 24 Hours	4.690
kW Input to Motor	122.1
HP Input to Motor	163.7
Motor Load (%)	101.5
Measured Speed of Pump, RPM	1,754
Customer Meter, GPM	1,014
kWh per Acre Foot	625
Overall Plant Efficiency (%)	61.7

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 9, 2011

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS,** Plant: YARD WELL  
 Location: 51251 140TH ST W HP: 150  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
 Meter: 345M-6685 Pump Ref. #: 10590

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 7, 2011, billing history for the past 12 months, and your current rate of TOU-PA-B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 61.7% to 70.0%.
2. This can save you up to 53,951 kWh and \$5,778.15 annually.
3. These kWh savings translate to a 23-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	456,276	402,325	53,951
kW Input	122.1	107.7	14.4
kWh per Acre Foot	625	551	74
Acre Feet per Year	730.1		
Average Cost per kWh	\$0.11	\$59.02	\$7.91
Average Cost per Acre Foot	\$66.94	70.0	
Overall Plant Efficiency (%)	61.7		
<hr/>			
Total Annual Cost	\$48,867.16	\$43,089.01	\$5,778.15

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
 Manager  
 Hydraulic Services



**Confidential/Proprietary Information**

September 14, 2012

2012

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: YARD WELL  
Location: 51251 140TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
Meter: 345M-6685 Pump Ref. #: 10590

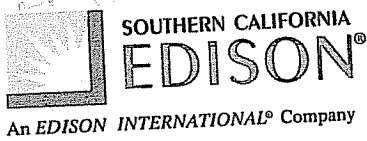
In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 10, 2012. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**  
Pump: PEERL No: NO PLATE  
Motor: US No: 1291749

**Results**

Discharge Pressure, PSI	37.1
Standing Water Level, Feet	249.9
Drawdown, Feet	16.2
Discharge Head, Feet	85.7
Pumping Water Level, Feet	266.1
Total Head, Feet	351.8
Capacity, GPM	1,150
GPM per Foot Drawdown	71.0
Acre Feet Pumped in 24 Hours	5.083
kW Input to Motor	124.9
HP Input to Motor	167.5
Motor Load (%)	103.8
Measured Speed of Pump, RPM	1,752
Customer Meter, GPM	1,099
kWh per Acre Foot	590
Overall Plant Efficiency (%)	61.0

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 14, 2012

2012  
2

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: YARD WELL  
 Location: 51251 140TH ST W HP: 150  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2031-52  
 Meter: 345M-6685 Pump Ref. #: 10590

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 10, 2012, billing history for the past 12 months, and your current rate of TOU-PA-B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 61.0% to 70.0%.
2. This can save you up to 67,300 kWh and \$6,553.67 annually.
3. These kWh savings translate to a 29-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	523,260	455,960	67,300
kW Input	124.9	108.8	16.1
kWh per Acre Foot	590	514	76
Acre Feet per Year	887.1		
Average Cost per kWh	\$0.10	\$50.05	\$7.39
Average Cost per Acre Foot	\$57.44	70.0	
Overall Plant Efficiency (%)	61.0		
<b>Total Annual Cost</b>	<b>\$50,955.06</b>	<b>\$44,401.39</b>	<b>\$6,553.67</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

2001

September 21, 2001

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - BARN WELL  
51320 150TH ST W  
CUST #: 0-007-7591 SERV ACCT #: 018-2033-06  
DATE OF TEST: September 19, 2001

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact GARY PARDUE at (661)726-5662.


EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: NEWMN NO: S1190103PB 150 HP  
METER: P831W-34  
HYDRAULIC TEST REFERENCE NUMBER: 10587

TEST RESULTS

Discharge Pressure, PSI	51.3
Standing Water Level, Ft.	267.3
Drawdown, Ft.	21.5
Discharge Head, Ft.	118.5
Pumping Water Level, Ft.	288.8
Total Head, Ft.	407.3
Capacity, GPM	945.0
GPM per Ft. Drawdown	44.0
Acre Ft. Pumped in 24 Hrs.	4.177
kW Input to Motor	125.7
HP Input to Motor	168.6
Motor Load (%)	102.8
Measured Speed of Pump, RPM	1782
kWh per Acre Ft.	722
Overall Plant Efficiency (%)	57.7

The pump was running 4 lines during this test.

  
DAN JOHNSON  
Manager  
Hydraulic Services





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EDISON

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CONFIDENTIAL/PROPRIETARY INFORMATION

September 21, 2001

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 150 - PLANT: BARN WELL  
CUST #: 0-007-7591 SERV ACCT #: 018-2033-06  
HYDRAULIC TEST REFERENCE NUMBER: 10587

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed September 19, 2001 and billing history for the past 12 months


EXISTING PLANT EFFICIENCY  
TOU-PA-SOP  
Current Rate

Total kWh	303864
kW Input	125.7
kWh per Acre Ft.	722
Acre Ft. per Year	420.6
Avg. Cost per kWh	\$0.07
Avg. Cost per Acre Ft.	\$53.97
Overall Plant Eff. (%)	57.7
-----	-----
TOTAL ANNUAL COST	\$22,701.68

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pump efficiency will be continued.

If you have any questions, please contact GARY PARDUE at (661)726-5662.

  
DAN JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

2002

October 4, 2002

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - BARN WELL  
51320 150TH ST W  
CUST #: 0-007-7591 SERV ACCT #: 018-2023-06  
DATE OF TEST: October 1, 2002

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact GARY PARDUE at (661)726-5662.

EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: NEWM NO: S1190103 150 HP  
METER: P831W-34  
HYDRAULIC TEST REFERENCE NUMBER: 10587

TEST RESULTS

Discharge Pressure, PSI	40.0
Standing Water Level, Ft.	278.0
Drawdown, Ft.	20.4
Discharge Head, Ft.	92.4
Pumping Water Level, Ft.	298.4
Total Head, Ft.	390.8
Capacity, GPM	1,023.0
GPM per Ft. Drawdown	50.1
Acre Ft. Pumped in 24 Hrs.	4.522
kW Input to Motor	126.3
HP Input to Motor	169.4
Motor Load (%)	103.3
Measured Speed of Pump, RPM	1,781
kWh per Acre Ft.	670
Overall Plant Efficiency (%)	59.6

The pump was running 5 lines during this test.

DAN L. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

October 4, 2002

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 150 - PLANT: BARN WELL  
CUST #: 0-007-7591 SERV ACCT #: 018-2023-06  
HYDRAULIC TEST REFERENCE NUMBER: 10587

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed October 1, 2002 and billing history for the past 12 months.

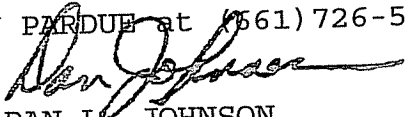
EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	582,204
kW Input	126.3
kWh per Acre Ft.	670
Acre Ft. per Year	868.3
Avg. Cost per kWh	\$0.09
Avg. Cost per Acre Ft.	\$62.00
Overall Plant Eff. (%)	59.6
-----	
TOTAL ANNUAL COST	\$53,831.75

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pump efficiency will be continued.

If you have any questions, please contact GARY PARDUE at (561) 726-5662.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

July 20, 2003

2003

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - BARN WELL  
51320 150TH ST W  
CUST #: 0-007-7591 - SERV ACCT #: 018-2023-06  
DATE OF TEST: July 14, 2003

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact GARY PARDUE at (661)726-5662.

EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: NEWM NO: S1190103 150 HP  
METER: P729M-46  
HYDRAULIC TEST REFERENCE NUMBER: 10587

TEST RESULTS	TEST 1	TEST 2
Discharge Pressure, PSI	41.8	54.3
Standing Water Level, Ft.	281.0	281.0
Drawdown, Ft.	17.9	15.8
Discharge Head, Ft.	96.6	125.4
Pumping Water Level, Ft.	298.9	296.8
Total Head, Ft.	395.5	422.2
Capacity, GPM	1,141.0	1,035.0
GPM per Ft. Drawdown	63.7	65.5
Acre Ft. Pumped in 24 Hrs.	5.043	4.575
kW Input to Motor	124.1	121.0
HP Input to Motor	166.4	162.3
Motor Load (%)	101.5	99.0
Measured Speed of Pump, RPM	1,780	
- kWh per Acre Ft.	591	635
Overall Plant Efficiency (%)	68.5	68.0

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

DAN L. JOHNSON  
Manager  
Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

July 20, 2003

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 150 - PLANT: BARN WELL  
CUST #: 0-007-7591 - SERV ACCT #: 018-2023-06  
HYDRAULIC TEST REFERENCE NUMBER: 10587

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed July 14, 2003 and billing history for the past 12 months.

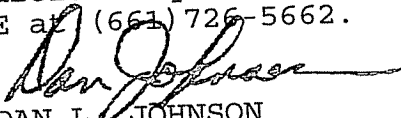
EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	540,000
kW Input	124.1
kWh per Acre Ft.	591
Acre Ft. per Year	914.2
Avg. Cost per kWh	\$0.10
Avg. Cost per Acre Ft.	\$60.08
Overall Plant Eff. (%)	68.5
-----	
TOTAL ANNUAL COST	\$54,920.54

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact GARY PARDUE at (661) 726-5662.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA EDISON

CONFIDENTIAL/PROPRIETARY INFORMATION

August 27, 2004

2004

ATTN: JOHN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - BARN WELLS  
51320 150TH ST W  
CUST #: 0-007-7591 - SERV ACCT #: 018-2023-06  
DATE OF TEST: August 25, 2004

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: NEWM NO: S1190103 150 HP  
METER: P729M-46  
HYDRAULIC TEST REFERENCE NUMBER: 10587

TEST RESULTS	TEST 1	TEST 2	TEST 3
Discharge Pressure, PSI	33.5	41.9	50.2
Standing Water Level, Ft.	290.2	290.2	290.2
Drawdown, Ft.	18.3	17.3	16.0
Discharge Head, Ft.	77.4	96.8	116.0
Pumping Water Level, Ft.	308.5	307.5	306.2
Total Head, Ft.	385.9	404.3	422.2
Capacity, GPM	1,076.0	994.0	921.0
GPM per Ft. Drawdown	58.8	57.5	57.6
* Acre Ft. Pumped in 24 Hrs.	4.756	4.393	4.071
* kW Input to Motor	125.1	123.0	119.9
HP Input to Motor	167.8	164.9	160.8
Motor Load (%)	102.3	100.6	98.1
Measured Speed of Pump, RPM	1,781		
* kWh per Acre Ft.	63.1	67.2	70.7
Overall Plant Efficiency (%)	62.5	61.5	61.1

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

DAN L. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA EDISON

CONFIDENTIAL/PROPRIETARY INFORMATION

August 27, 2004

ATTN: JOHN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS - HP: 150 - PLANT: BARN WELL  
 CUST #: 0-007-7591 - SERV ACCT #: 018-2023-06  
 HYDRAULIC TEST REFERENCE NUMBER: 10587

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed August 25, 2004 and billing history for the past 12 months.

It is recommended and assumed that:

1. Overall plant efficiency can be improved from 62.5% to 70.0%. These improvements can save you up to 72,485 kWh annually.
2. Water requirements will be the same as for the past year.
3. All operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test.

	EXISTING PLANT EFFICIENCY TOU-PA-7B Current Rate	IMPROVED PLANT EFFICIENCY TOU-PA-7B Current Rate	Savings
Total kWh	676,860	604,375	72,485
kW Input	125.1	111.7	13.4
kWh per Acre Ft.	631	564	68
Acre Ft. per Year	1,072.0	1,072.0	
Avg. Cost per kWh	\$0.08		
Avg. Cost per Acre Ft.	\$47.91	\$42.78	\$5.13
Overall Plant Eff. (%)	62.5	70.0	
<b>TOTAL ANNUAL COST</b>	<b>\$51,360.14</b>	<b>\$45,859.98</b>	<b>\$5,500.15</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact RICK KOCH at (805) 654-7312.

*[Signature]*  
 DAN L. JOHNSON  
 Manager  
 Hydraulic Services



CONFIDENTIAL/PROPRIETARY INFORMATION

2005

September 9, 2005

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - BARN WELL  
51320 150TH ST W  
CUST #: 0-007-7591 - SERV ACCT #: 018-2023-06  
DATE OF TEST: September 7, 2005

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

PUMP: PEERL NO: NO PLATE  
MOTOR: NEWM NO: S1190103 150 HP  
METER: 345M-6350  
HYDRAULIC TEST REFERENCE NUMBER: 10587

TEST RESULTS	TEST 1	TEST 2	TEST 3
Discharge Pressure, PSI	37.5	49.5	67.5
Standing Water Level, Ft.	287.8	287.8	287.8
Drawdown, Ft.	17.1	15.6	12.2
Discharge Head, Ft.	86.6	114.3	155.9
Pumping Water Level, Ft.	304.9	303.4	300.0
Total Head, Ft.	391.5	417.7	455.9
Capacity, GPM	1,157.0	1,035.0	831.0
GPM per Ft. Drawdown	67.7	66.3	68.1
Acre Ft. Pumped in 24 Hrs.	5.114	4.575	3.673
kW Input to Motor	123.6	120.5	110.5
HP Input to Motor	165.7	161.6	148.2
Motor Load (%)	101.1	98.6	90.4
Measured Speed of Pump, RPM	1,781		
kWh per Acre Ft.	580	632	722
Overall Plant Efficiency (%)	69.0	67.6	64.6

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services





CONFIDENTIAL/PROPRIETARY INFORMATION

September 9, 2005

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: PUMPING COST ANALYSIS  
HP: 150 - PLANT: BARN WELL  
CUST #: 0-007-7591 - SERV ACCT #: 018-2023-06  
HYDRAULIC TEST REFERENCE NUMBER: 10587

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the Edison Pump Test performed September 7, 2005 and billing history for the past 12 months.

EXISTING PLANT EFFICIENCY  
TOU-PA-7B  
Current Rate

Total kWh	517,260
kW Input	123.6
kWh per Acre Ft.	580
Acre Ft. per Year	891.6
Avg. Cost per kWh	\$0.08
Avg. Cost per Acre Ft.	\$44.08
Overall Plant Eff. (%)	69.0
-----	
TOTAL ANNUAL COST	\$39,296.24

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any additional questions regarding this report, please contact RICK KOCH at (805) 654-7312.

  
DAN Y. JOHNSON  
Manager  
Hydraulic Services

Confidential / Proprietary Information

September 15, 2006



2006

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant: BARN WELL**

Location: 51320 150TH ST W HP: 150

Cust. #: 0-007-7591

Serv. Acct. #: 018-2023-06 OK

Meter: 345M-6350

Pump Ref #: 10587

In accordance with your request, a test was made on your turbine well pump on September 11, 2006. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: PEERL  
Motor Mfg.: NEWM

No.: NO PLATE  
No.: S1190103

<b>RESULTS</b>	<u>Test 1</u>	<u>Test 2</u>	<u>Test 3</u>
Discharge Pressure, PSI	34.0	47.0	74.5
Standing Water Level, Feet	289.2	289.2	289.2
Drawdown, Feet	17.6	16.0	10.6
Discharge Head, Feet	78.5	108.6	172.1
Pumping Water Level, Feet	306.8	305.2	299.8
Total Head, Feet	385.3	413.8	471.9
Capacity, GPM	1,126.0	1,023.0	660.0
GPM per Foot Drawdown	64.0	63.9	62.3
Acre Feet Pumped in 24 Hours	4.977	4.522	2.917
kW Input to Motor	125.3	121.5	103.0
HP Input to Motor	168.0	162.9	138.1
Motor Load (%)	102.5	99.4	84.3
Measured Speed of Pump, RPM	1,781		
kWh per Acre Foot:	604	645	848
Overall Plant Efficiency (%)	65.2	65.6	56.9
Customer Meter, GPM	1,126.0		

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

DAN L. JOHNSON  
Manager  
Hydraulic Services

Save energy,  
Save money...  
Your test results show that you can!

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: BARN WELL**  
Location: 51320 150TH ST W HP: 150  
Cust. #: 0-007-7591 Serv. Acct. #: 018-2023-06  
Meter: 345M-6350 Pump Ref #: 10587

Dear SCE Customer:

Helping California businesses save energy and money is a major goal at SCE. As you know, our technical specialists performed a free pump-efficiency test on one or more pumps at your facility on September 11, 2006. We thank you for the opportunity to provide this service, and appreciate your interest in the performance of your pumps.

The results of the testing, shown in the table below, indicate that the pump listed above has the potential for improved Overall Plant Efficiency (OPE), lower energy costs, and a cash incentive.

	Plant Efficiency		Savings
	Existing	Improved	
Total kWh	488,196	454,735	33,461
kW Input	125.3	116.7	8.6
kWh per Acre Foot	604	563	41
Acre Feet per Year	807.8		
Average Cost per kWh	\$0.08		
Average Cost per Acre Foot	\$47.54	\$44.28	\$3.26
Overall Plant Efficiency (%)	65.2	70.0	
<hr/> Total Annual Cost	<hr/> \$38,406.38	<hr/> \$35,774.02	<hr/> \$2,632.36
Cash Incentive			\$2,676.87

Case studies show that repairing, retrofitting, or replacing inefficient pumps can save energy and money, and may even help you avoid serious operational problems. For your business, this could mean the following:

- **Improved Plant Efficiency:** Your OPE can be improved from 65.2% to 70.0%.
- **Lower Energy Costs:** Based on the test data, your past energy usage, and your current rate of TOU-PA-7B, we estimate that you may save up to 33,461 kWh annually, resulting in energy cost savings of \$2,632.36.
- **Cash Incentive:** Through the retrofit and installation of more energy-efficient equipment, you would receive an incentive of \$0.08 per kWh saved, courtesy of SCE's Agricultural Energy Efficiency Program. Based on your estimated kWh savings, you would be eligible for a potential cash incentive of \$2,676.87, capped at 50% of your project cost. (See contract for details.)

You may also be eligible for pump motor incentives. For more information about your test results, options, and incentive opportunities, contact RICK KOCH at (805)654-7312.

We encourage you to review your results and take advantage of SCE's energy efficiency expertise and incentives. Visit [www.sce.com/rebatesandsavings](http://www.sce.com/rebatesandsavings), or give us a call and let us know how we can be of further service to you.

Sincerely,

Southern California Edison

Program funded by California utility ratepayers, and administered by Southern California Edison under the auspices of the California Public Utilities Commission.



**Confidential / Proprietary Information**

September 14, 2007

*2007*

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: BARN WELL  
 Location: 51320 150TH ST W HP: 150  
 Cust. #: 0-007-7591 Serv. Acct. #: 018-2023-06  
 Meter: 345M-6350 Pump Ref #: 10587

In accordance with your request, a test was made on your turbine well pump on September 12, 2007. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: PEERL No.: NO PLATE  
 Motor Mfg.: NEWM No.: S1190103

<b>RESULTS</b>	<u>Test 1</u>	<u>Test 2</u>	<u>Test 3</u>
Discharge Pressure, PSI	39.0	57.0	71.5
Standing Water Level, Feet	293.1	293.1	293.1
Drawdown, Feet	16.6	13.7	10.5
Discharge Head, Feet	90.1	131.7	165.2
Pumping Water Level, Feet	309.7	306.8	303.6
Total Head, Feet	399.8	438.5	468.8
Capacity, GPM	1,040.0	850.0	660.0
GPM per Foot Drawdown	62.7	62.0	62.9
Acre Feet Pumped in 24 Hours	4.597	3.757	2.917
kW Input to Motor	123.9	115.9	104.7
HP Input to Motor	166.1	155.4	140.4
Motor Load (%)	101.4	94.8	85.6
Measured Speed of Pump, RPM	1,781	741	862
kWh per Acre Foot:	647	60.6	55.6
Overall Plant Efficiency (%)	63.2		
Customer Meter, GPM	1,114		

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

DAN L. JOHNSON  
 Manager  
 Hydraulic Services

**Confidential / Proprietary Information**

September 14, 2007



ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: BARN WELL  
 Location: 51320 150TH ST W HP: 150  
 Cust. #: 0-007-7591 Serv. Acct. #: 018-2023-06  
 Meter: 345M-6350 Pump Ref #: 10587

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 12, 2007, billing history for the past 12 months, and your current rate of TOU-PA-7B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall Plant Efficiency can be improved from 63.2% to 70.0%.
2. This can save you up to 58,460 kWh and \$5,223.44 annually.

	Plant Efficiency		Savings
	Existing	Improved	
Total kWh	601,332	542,872	58,460
kW Input	123.9	111.9	12.0
kWh per Acre Foot	647	584	63
Acre Feet per Year	929.4		
Average Cost per kWh	\$0.09		
Average Cost per Acre Foot	\$57.81	\$52.19	\$5.62
Overall Plant Efficiency (%)	63.2	70.0	
<b>Total Annual Cost</b>	<b>\$53,729.01</b>	<b>\$48,505.58</b>	<b>\$5,223.44</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
 Manager  
 Hydraulic Services



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

An EDISON INTERNATIONAL<sup>®</sup> Company

**Confidential/Proprietary Information**

September 19, 2008

*2008*

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: BARN WELL  
Location: 51320 150TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
Meter: 345M-6350 Pump Ref. #: 10587

In accordance with your request, a test was made on your turbine well pump on September 15, 2008. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**  
Pump: PEERL No: NO PLATE  
Motor: NEWM No: S1190103

<b>Results</b>	<u>Test 1</u>	<u>Test 2</u>	<u>Test 3</u>
Discharge Pressure, PSI	30.5	54.5	68.5
Standing Water Level, Feet	296.2	296.2	296.2
Drawdown, Feet	17.5	14.0	10.8
Discharge Head, Feet	70.5	125.9	158.2
Pumping Water Level, Feet	313.7	310.2	307.0
Total Head, Feet	384.2	436.1	465.2
Capacity, GPM	1,089	862	668
GPM per Foot Drawdown	62.2	61.6	61.9
Acre Feet Pumped in 24 Hours	4.813	3.810	2.953
kW Input to Motor	124.3	115.7	105.4
HP Input to Motor	166.7	155.2	141.3
Motor Load (%)	103.3	96.2	87.6
Measured Speed of Pump, RPM	1,780		
kWh per Acre Foot	620	729	857
Overall Plant Efficiency (%)	63.4	61.2	55.5
Customer Meter, GPM	1,095		

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

DAN L. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

An EDISON INTERNATIONAL<sup>®</sup> Company

**Confidential/Proprietary Information**

September 19, 2008

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: BARN WELL  
Location: 51320 150TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
Meter: 345M-6350 Pump Ref. #: 10587

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 15, 2008, billing history for the past 12 months, and your current rate of TOU-PA-7B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 63.4% to 70.0%.
2. This can save you up to 54,505 kWh and \$4,718.47 annually.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	576,816	522,311	54,505
kW Input	124.3	112.6	11.7
kWh per Acre Foot	620	561	59
Acre Feet per Year	930.5		
Average Cost per kWh	\$0.09		
Average Cost per Acre Foot	\$53.66	\$48.59	\$5.07
Overall Plant Efficiency (%)	63.4	70.0	
<hr/>			
Total Annual Cost	\$49,934.96	\$45,216.49	\$4,718.47

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 11, 2009

2009

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: BARN WELL  
 Location: 51320 150TH ST W HP: 150  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
 Meter: 345M-6350 Pump Ref. #: 10587

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 9, 2009. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**  
 Pump: PEERL No: NO PLATE  
 Motor: NEWM No: S1190103

Results	Test 1	Test 2
Discharge Pressure, PSI	39.0	55.8
Standing Water Level, Feet	298.7	298.7
Drawdown, Feet	15.7	12.8
Discharge Head, Feet	90.1	128.9
Pumping Water Level, Feet	314.4	311.5
Total Head, Feet	404.5	440.4
Capacity, GPM	982	817
GPM per Foot Drawdown	62.5	63.8
Acre Feet Pumped in 24 Hours	4.340	3.611
kW Input to Motor	119.8	112.6
HP Input to Motor	160.7	151.0
Motor Load (%)	99.6	93.6
Measured Speed of Pump, RPM	1,780	
Customer Meter, GPM	1,042	
kWh per Acre Foot	663	748
Overall Plant Efficiency (%)	62.4	60.2

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

DAN L. JOHNSON  
 Manager  
 Hydraulic Services





**Confidential/Proprietary Information**

September 11, 2009

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: BARN WELL  
 Location: 51320 150TH ST W HP: 150  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
 Meter: 345M-6350 Pump Ref. #: 10587

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 9, 2009, billing history for the past 12 months, and your current rate of TOU-PA-7B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 62.4% to 70.0%.
2. This can save you up to 59,727 kWh and \$4,981.86 annually.
3. These kWh savings translate to a 26-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	552,888	493,161	59,727
kW Input	119.8	106.9	12.9
kWh per Acre Foot	663	591	72
Acre Feet per Year	834.5		
Average Cost per kWh	\$0.08		
Average Cost per Acre Foot	\$55.26	\$49.29	\$5.97
Overall Plant Efficiency (%)	62.4	70.0	
<b>Total Annual Cost</b>	<b>\$46,116.39</b>	<b>\$41,134.52</b>	<b>\$4,981.86</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
 Manager  
 Hydraulic Services



**Confidential/Proprietary Information**

October 8, 2010

2010

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: BARN WELL  
Location: 51320 150TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
Meter: 345M-6350 Pump Ref. #: 10587

In accordance with your request, an energy efficiency test was performed on your turbine well pump on October 5, 2010. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

Equipment		
Pump:	PEERL	No: NO PLATE
Motor:	NEWMN	No: S1190103

**Results -**

Discharge Pressure, PSI	47.6
Standing Water Level, Feet	290.0
Drawdown, Feet	15.4
Discharge Head, Feet	110.0
Pumping Water Level, Feet	305.4
Total Head, Feet	415.4
Capacity, GPM	941
GPM per Foot Drawdown	61.1
Acre Feet Pumped in 24 Hours	4.159
kW Input to Motor	119.8
HP Input to Motor	160.7
Motor Load (%)	99.6
Measured Speed of Pump, RPM	1,783
Customer Meter, GPM	1,037
kWh per Acre Foot	691
Overall Plant Efficiency (%)	61.4

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

October 8, 2010

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant:** BARN WELL  
 Location: 51320 150TH ST W HP: 150  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
 Meter: 345M-6350 Pump Ref. #: 10587

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on October 5, 2010, billing history for the past 12 months, and your current rate of TOU-PA-B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 61.4% to 70.0%.
2. This can save you up to 50,894 kWh and \$5,207.43 annually.
3. These kWh savings translate to a 22-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	416,352	365,458	50,894
kW Input	119.8	105.2	14.6
kWh per Acre Foot	691	607	85
Acre Feet per Year	602.2		
Average Cost per kWh	\$0.10	\$62.10	\$8.65
Average Cost per Acre Foot	\$70.74	70.0	
Overall Plant Efficiency (%)	61.4		
<b>Total Annual Cost</b>	<b>\$42,601.14</b>	<b>\$37,393.70</b>	<b>\$5,207.43</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
 Manager  
 Hydraulic Services



**Confidential/Proprietary Information**

September 9, 2011

2011

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: BARN WELL  
 Location: 51320 150TH ST W HP: 150  
 Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
 Meter: 345M-6350 Pump Ref. #: 10587

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 7, 2011. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

Results	Equipment	
	Pump:	Motor:
	PEERL	NEWMN
	No: NO PLATE	No: S1190103
	<u>Test 1</u>	<u>Test 2</u>
Discharge Pressure, PSI	35.5	55.0
Standing Water Level, Feet	290.0	290.0
Drawdown, Feet	16.0	13.3
Discharge Head, Feet	82.0	127.1
Pumping Water Level, Feet	306.0	303.3
Total Head, Feet	388.0	430.4
Capacity, GPM	1,052	858
GPM per Foot Drawdown	65.8	64.5
Acre Feet Pumped in 24 Hours	4.650	3.792
kW Input to Motor	123.2	115.8
HP Input to Motor	165.2	155.3
Motor Load (%)	102.4	96.3
Measured Speed of Pump, RPM	1,780	
Customer Meter, GPM	1,100	
kWh per Acre Foot	636	733
Overall Plant Efficiency (%)	62.4	60.1

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

RUSS JOHNSON  
 Manager  
 Hydraulic Services



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

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September 9, 2011

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS,** Plant: BARN WELL  
Location: 51320 150TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
Meter: 345M-6350 Pump Ref. #: 10587

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 7, 2011, billing history for the past 12 months, and your current rate of TOU-PA-B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 62.4% to 70.0%.
2. This can save you up to 54,113 kWh and \$5,514.14 annually.
3. These kWh savings translate to a 24-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	497,736	443,623	54,113
kW Input	123.2	109.8	13.4
kWh per Acre Foot	636	567	69
Acre-Feet per Year	782.6		
Average Cost per kWh	\$0.10		
Average Cost per Acre Foot	\$64.81	\$57.76	\$7.05
Overall Plant Efficiency (%)	62.4	70.0	
<b>Total Annual Cost</b>	<b>\$50,719.30</b>	<b>\$45,205.16</b>	<b>\$5,514.14</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services



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September 14, 2012

2012  
①

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: BARN WELL  
Location: 51320 150TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
Meter: 345M-6350 Pump Ref. #: 10587

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 10, 2012. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

Results	Equipment	
	Pump:	Motor:
	PEERL	NEWMN
	No: NO PLATE	No: S1190103
	<u>Test 1</u>	<u>Test 2</u>
Discharge Pressure, PSI	35.5	44.5
Standing Water Level, Feet	268.3	268.3
Drawdown, Feet	17.3	16.0
Discharge Head, Feet	82.0	102.8
Pumping Water Level, Feet	285.6	284.3
Total Head, Feet	367.6	387.1
Capacity, GPM	1,114	1,048
GPM per Foot Drawdown	64.4	65.5
Acre Feet Pumped in 24 Hours	4.924	4.632
kW Input to Motor	128.0	124.5
HP Input to Motor	171.6	167.0
Motor Load (%)	106.4	103.5
Measured Speed of Pump, RPM	1,782	
Customer Meter, GPM	1,147	
kWh per Acre Foot	624	645
Overall Plant Efficiency (%)	60.2	61.4

Test 1 is the normal operation of this pump at the time of the above test(s). The other results were obtained by throttling the discharge.

RUSS JOHNSON  
Manager  
Hydraulic Services



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**Confidential/Proprietary Information**

September 14, 2012

2012  
②

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS,** Plant: BARN WELL  
Location: 51320 150TH ST W HP: 150  
Cust #: 0-007-7591 Serv. Acct. #: 018-2023-06  
Meter: 345M-6350 Pump Ref. #: 10587

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 10, 2012, billing history for the past 12 months, and your current rate of TOU-PA-B.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 60.2% to 70.0%.
2. This can save you up to 69,173 kWh and \$6,383.33 annually.
3. These kWh savings translate to a 30-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	496,416	427,243	69,173
kW Input	128.0	110.2	17.8
kWh per Acre Foot	624	537	87
Acre Feet per Year	795.5		
Average Cost per kWh	\$0.09		
Average Cost per Acre Foot	\$57.58	\$49.56	\$8.02
Overall Plant Efficiency (%)	60.2	70.0	
<b>Total Annual Cost</b>	<b>\$45,809.27</b>	<b>\$39,425.94</b>	<b>\$6,383.33</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services

House Well

CONFIDENTIAL/PROPRIETARY INFORMATION

November 1, 2004

Jose Maritorena, Inc.  
300 E Panama Rd.  
Bakersfield, CA 93307

2004

SUBJECT: HYDRAULIC TEST RESULTS – HOUSE WELL  
ACCT: (Not applicable – diesel engine)  
434 ~~418~~ 155<sup>th</sup> St West  
DATE OF TEST: 10/25/04

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact Rick Koch at (661)726-5662.

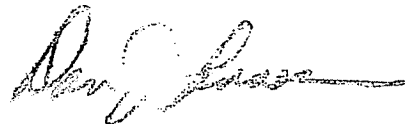
EQUIPMENT

PUMP: L & B NO: NO PLATE  
MOTOR: CUMMINS NO: 14045883

TEST RESULTS

	TEST 1
Discharge Pressure, PSI	54.5
Standing Water Level, Ft	298.7
Discharge Head, Ft.	125.9
Capacity, GPM	962
Acre Ft. Pumped in 24 Hrs.	4.252
Fuel Consumption, GPH	8.5
Input, Thermal HP	467.5
Customer's Engine Tachometer, RPM	1775
Measured Speed of Pump, RPM	1775

During testing, the engine speed was set to represent a typical electric motor RPM. We were unable to measure the water levels with our sounder line and the air line is inoperative or missing. Therefore, we are unable to determine the total pumping head and overall plant efficiency. The standing level was measured down through the pump column. Fuel consumption rates are based on the customer's engine computer display gauge and Thermal Horsepower was calculated using 140000 btu/gallon for diesel #2.



DAN JOHNSON  
Hydraulic/Industrial Test Supervisor





CONFIDENTIAL/PROPRIETARY INFORMATION

September 9, 2005

2005

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - HOUSE WELL  
434 155TH ST W  
CUST #: 0-007-7591 - SERV ACCT #: 026-3450-99  
DATE OF TEST: September 8, 2005

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

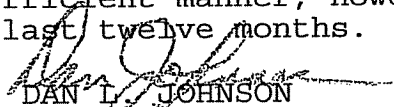
EQUIPMENT

PUMP: L&B NO: 16814  
MOTOR: US NO: 670757 250 HP  
METER: V349N-478  
HYDRAULIC TEST REFERENCE NUMBER: 25855

TEST RESULTS

Discharge Pressure, PSI	40.5
Standing Water Level, Ft.	309.1
Drawdown, Ft.	
Discharge Head, Ft.	93.6
Pumping Water Level, Ft.	
Total Head, Ft.	
Capacity, GPM	1,229.0
GPM per Ft. Drawdown	
Acre Ft. Pumped in 24 Hrs.	5.432
kW Input to Motor	144.0
HP Input to Motor	193.1
Motor Load (%)	71.4
Measured Speed of Pump, RPM	1,788
kWh per Acre Ft.	636
Overall Plant Efficiency (%)	
Customer Meter, GPM	1,119.0

We were unable to measure the water levels with our sounder line and the air line is inoperative or missing. Therefore, we are unable to determine the total pumping head and overall plant efficiency. The standing level was measured down through the pump column. This pump is operating in an efficient manner, however records indicate little or no usage during the last twelve months.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services

**Confidential / Proprietary Information**

September 15, 2006



2006

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: HOUSE WELL  
Location: 434 155TH ST W HP: 250  
Cust. #: 0-007-7591 Serv. Acct. #: 026-5797-39 OK  
Meter: V349N-478 Pump Ref #: 25855

In accordance with your request, a test was made on your turbine well pump on September 13, 2006. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: L&B No.: 16814  
Motor Mfg.: US No.: 670757

**RESULTS**

Discharge Pressure, PSI	39.5
Standing Water Level, Feet	324.3
Drawdown, Feet	
Discharge Head, Feet	91.2
Pumping Water Level, Feet	
Total Head, Feet	
Capacity, GPM	1,213.0
GPM per Foot Drawdown	
Acre Feet Pumped in 24 Hours	5.361
kW Input to Motor	141.1
HP Input to Motor	189.2
Motor Load (%)	70.0
Measured Speed of Pump, RPM	1,787
kWh per Acre Foot:	632
Overall Plant Efficiency (%)	1,087.0
Customer Meter, GPM	

We were unable to measure the water levels with our sounder line and the air line is inoperative or missing. Therefore, we are unable to determine the total pumping head and overall plant efficiency. The standing level was measured down through the pump column.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services

**Confidential / Proprietary Information**

September 15, 2006



ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: HOUSE WELL**  
Location: 434 155TH ST W HP: 250  
Cust. #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref #: 25855

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 13, 2006, billing history for the past 12 months, and your current rate of TOU-PA-B.

	<u>Existing</u>
Total kWh	364,932
kW Input	141.1
kWh per Acre Foot	632
Acre Feet per Year	577.7
Average Cost per kWh	\$0.11
Average Cost per Acre Foot	\$69.20
<hr/>	<hr/>
Total Annual Cost	\$39,974.65

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services

**Confidential / Proprietary Information**

September 14, 2007



2007

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant: HOUSE WELL**

Location: 434 155TH ST W HP: 250  
Cust. #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref #: 25855

In accordance with your request, a test was made on your turbine well pump on September 13, 2007. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: L&B No.: 16814  
Motor Mfg.: US No.: 670757

**RESULTS**

Discharge Pressure, PSI	33.0
Standing Water Level, Feet	314.8
Drawdown, Feet	
Discharge Head, Feet	76.2
Pumping Water Level, Feet	
Total Head, Feet	
Capacity, GPM	1,271.0
GPM per Foot Drawdown	
Acre Feet Pumped in 24 Hours	5.618
kW Input to Motor	144.1
HP Input to Motor	193.2
Motor Load (%)	71.5
Measured Speed of Pump, RPM	1,786
kWh per Acre Foot:	616
Overall Plant Efficiency (%)	
Customer Meter, GPM	1,131

We were unable to measure the water levels with our sounder line and the air line is inoperative or missing. Therefore, we are unable to determine the total pumping head and overall plant efficiency. The standing level was measured down through the pump column.

DAN L. JOHNSON  
Manager  
Hydraulic Services

**Confidential / Proprietary Information**

September 14, 2007



ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: HOUSE WELL**

Location: 434 155TH ST W HP: 250

Cust. #: 0-007-7591

Serv. Acct. #: 026-5797-39

Meter: V349N-478

Pump Ref #: 25855

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 13, 2007, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	<b>366,780</b>
kW Input	<b>144.1</b>
kWh per Acre Foot	<b>616</b>
Acre Feet per Year	<b>595.7</b>
Average Cost per kWh	<b>\$0.11</b>
Average Cost per Acre Foot	<b>\$64.77</b>
<hr/>	
Total Annual Cost	<b>\$38,585.26</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 19, 2008

2008

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: HOUSE WELL  
Location: 434 155TH ST W HP: 250  
Cust #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref. #: 25855

In accordance with your request, a test was made on your turbine well pump on September 16, 2008. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**

Pump: L&B No: 16814  
Motor: US No: 670757

**Results**

Discharge Pressure, PSI 43.0  
Standing Water Level, Feet 320.6  
Drawdown, Feet  
Discharge Head, Feet 99.3  
Pumping Water Level, Feet  
Total Head, Feet  
Capacity, GPM 1,196  
GPM per Foot Drawdown  
Acre Feet Pumped in 24 Hours 5.286  
kW Input to Motor 141.1  
HP Input to Motor 189.2  
Motor Load (%) 71.3  
Measured Speed of Pump, RPM 1,785  
kWh per Acre Foot 641  
Overall Plant Efficiency (%)  
Customer Meter, GPM 1,065

We were unable to measure the water levels with our sounder line and the air line is inoperative or missing. Therefore, we are unable to determine the total pumping head and overall plant efficiency. The standing level was measured down through the pump column.

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 19, 2008

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: HOUSE WELL  
Location: 434 155TH ST W HP: 250  
Cust #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref. #: 25855

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 16, 2008, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	435,204
kW Input	141.1
kWh per Acre Foot	641
Acre Feet per Year	679.2
Average Cost per kWh	\$0.10
Average Cost per Acre Foot	\$62.83
<hr/>	
Total Annual Cost	<b>\$42,676.10</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

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**Confidential/Proprietary Information**

September 11, 2009

*2009*

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant:** HOUSE WELL  
**Location:** 434 155TH ST W HP: 250  
**Cust #:** 0-007-7591 **Serv. Acct. #:** 026-5797-39  
**Meter:** V349N-478 **Pump Ref. #:** 25855

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 9, 2009. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

		<b>Equipment</b>	
Pump:	L&B		No: 16814
Motor:	US		No: 670757

**Results**

Discharge Pressure, PSI	<b>42.3</b>
Standing Water Level, Feet	<b>329.3</b>
Drawdown, Feet	
Discharge Head, Feet	<b>97.7</b>
Pumping Water Level, Feet	
Total Head, Feet	
Capacity, GPM	<b>1,213</b>
GPM per Foot Drawdown	
Acre Feet Pumped in 24 Hours	<b>5.361</b>
kW Input to Motor	<b>139.7</b>
HP Input to Motor	<b>187.3</b>
Motor Load (%)	<b>70.6</b>
Measured Speed of Pump, RPM	<b>1,788</b>
Customer Meter, GPM	<b>1,031</b>
<b>kWh per Acre Foot</b>	<b>625</b>
<b>Overall Plant Efficiency (%)</b>	

We were unable to measure the water levels with our sounder line and the air line is inoperative or missing. Therefore, we are unable to determine the total pumping head and overall plant efficiency. The standing level was measured down through the pump column.

DAN L. JOHNSON  
Manager  
Hydraulic Services





SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

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**Confidential/Proprietary Information**

September 11, 2009

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: HOUSE WELL  
Location: 434 155TH ST W HP: 250  
Cust #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref. #: 25855

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 9, 2009, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	<b>467,808</b>
kW Input	<b>139.7</b>
kWh per Acre Foot	<b>625</b>
Acre Feet per Year	<del>747.9</del>
Average Cost per kWh	<b>\$0.09</b>
Average Cost per Acre Foot	<b>\$57.67</b>
<hr/>	
Total Annual Cost	<b>\$43,131.90</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

October 8, 2010

2010

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant:** HOUSE WELL  
**Location:** 434-155TH ST W  
**Cust #:** 0-007-7591      **Serv. Acct. #:** 026-5797-39  
**Meter:** V349N-478      **Pump Ref. #:** 25855

In accordance with your request, an energy efficiency test was performed on your turbine well pump on October 6, 2010. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**  
Pump: L&B      No: 16814  
Motor: US      No: 670757

**Results**

Discharge Pressure, PSI      **50.3**  
Standing Water Level, Feet      **304.5**  
Drawdown, Feet  
Discharge Head, Feet      **116.2**  
Pumping Water Level, Feet  
Total Head, Feet  
Capacity, GPM      **1,155**  
GPM per Foot Drawdown  
Acre Feet Pumped in 24 Hours      **5.105**  
kW Input to Motor      **138.2**  
HP Input to Motor      **185.3**  
Motor Load (%)      **69.8**  
Measured Speed of Pump, RPM      **1,787**  
Customer Meter, GPM      **1,043**  
kWh per Acre Foot      **650**  
**Overall Plant Efficiency (%)**

We were unable to measure the water levels with our sounder line and the air line is inoperative or missing. Therefore, we are unable to determine the total pumping head and overall plant efficiency. The standing level was measured down through the pump column.

RUSS JOHNSON  
Manager  
Hydraulic Services

**Confidential/Proprietary Information**

October 8, 2010



ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: HOUSE WELL  
Location: 434 155TH ST W HP: 250  
Cust #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref. #: 25855

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on October 6, 2010, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	412,260
kW Input	138.2
kWh per Acre Foot	650
Acre Feet per Year	634.4
Average Cost per kWh	\$0.10
Average Cost per Acre Foot	\$63.10
<hr/>	
Total Annual Cost	\$40,030.45

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services

**Confidential/Proprietary Information**

September 9, 2011



2011

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: HOUSE WELL  
Location: 434 155TH ST W HP: 250  
Cust #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref. #: 25855

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 7, 2011. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**

Pump: L&B No: 16814  
Motor: US No: 670757

**Results**

Discharge Pressure, PSI	39.3
Standing Water Level, Feet	306.2
Drawdown, Feet	
Discharge Head, Feet	90.8
Pumping Water Level, Feet	
Total Head, Feet	
Capacity, GPM	1,254
GPM per Foot Drawdown	
Acre Feet Pumped in 24 Hours	5.543
kW Input to Motor	144.2
HP Input to Motor	193.4
Motor Load (%)	72.9
Measured Speed of Pump, RPM	1,788
Customer Meter, GPM	1,136
<b>kWh per Acre Foot</b>	<b>625</b>
<b>Overall Plant Efficiency (%)</b>	

We were unable to measure the water levels with our sounder line and the air line is inoperative or missing. Therefore, we are unable to determine the total pumping head and overall plant efficiency. The standing level was measured down through the pump column.

RUSS JOHNSON  
Manager  
Hydraulic Services

**Confidential/Proprietary Information**

September 9, 2011



2011

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS,** Plant: HOUSE WELL  
Location: 434 155TH ST W HP: 250  
Cust #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref. #: 25855

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 7, 2011, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	<b>304,440</b>
kW Input	<b>144.2</b>
kWh per Acre Foot	<b>625</b>
Acre Feet per Year	<b>487.5</b>
Average Cost per kWh	<b>\$0.10</b>
Average Cost per Acre Foot	<b>\$63.41</b>
<hr/>	
Total Annual Cost	<b>\$30,909.79</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services



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September 14, 2012

2012

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: HOUSE WELL  
Location: 434 155TH ST W HP: 250  
Cust #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref.#: 25855

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 11, 2012. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**

Pump:	L&B	No: 16814
Motor:	US	No: 670757

**Results**

Discharge Pressure, PSI	48.5
Standing Water Level, Feet	301.0
Drawdown, Feet	46.6
Discharge Head, Feet	112.0
Pumping Water Level, Feet	347.6
Total Head, Feet	459.6
Capacity, GPM	1,196
GPM per Foot Drawdown	25.7
Acre Feet Pumped in 24 Hours	5.286
kW Input to Motor	142.4
HP Input to Motor	191.0
Motor Load (%)	72.0
Measured Speed of Pump, RPM	1,788
Customer Meter, GPM	1,051
kWh per Acre Foot	647
Overall Plant Efficiency (%)	72.7

RUSS JOHNSON  
Manager  
Hydraulic Services



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September 14, 2012

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: HOUSE WELL**  
Location: 434 155TH ST W HP: 250  
Cust #: 0-007-7591 Serv. Acct. #: 026-5797-39  
Meter: V349N-478 Pump Ref. #: 25855

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 11, 2012, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	<b>516,240</b>
kW Input	<b>142.4</b>
kWh per Acre Foot	<b>647</b>
Acre Feet per Year	<b>798.4</b>
Average Cost per kWh	<b>\$0.08</b>
Average Cost per Acre Foot	<b>\$53.79</b>
Overall Plant Efficiency (%)	<b>72.7</b>
<hr/>	
Total Annual Cost	<b>\$42,940.84</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services



Ave A well

CONFIDENTIAL/PROPRIETARY INFORMATION

November 1, 2004

2004

Jose Maritorea, Inc.  
300 E Panama Rd.  
Bakersfield, CA 93307

SUBJECT: HYDRAULIC TEST RESULTS – AVENUE A WELL  
ACCT: (Not applicable – diesel engine)  
N/S AVENUE A W/O 150<sup>TH</sup> WEST  
DATE OF TEST: 10/25/04

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact Rick Koch at (661)726-5662.

EQUIPMENT

PUMP: L & B NO: NO PLATE  
MOTOR: CUMMINS NO: 14045901

TEST RESULTS

	TEST 1	TEST 2
Discharge Pressure, PSI	66.5	45.5
Standing Water Level, Ft	290.5	290.5
Drawdown, Ft	18.3	20.7
Discharge Head, Ft.	153.6	105.1
Pumping Water Level, Ft.	308.8	311.2
Total Head, Ft.	462.4	416.3
Capacity, GPM	1084	1194
GPM per Ft Drawdown	59.2	57.7
Acre Ft. Pumped in 24 Hrs.	4.791	5.277
Fuel Consumption, GPH	7.9	8.0
Input, Thermal HP	434.5	440.0
Water HP	126.6	125.5
Customer's Engine Tachometer, RPM	1625	1625
Measured Speed of Pump, RPM	1787	1787
Overall Plant Efficiency (%)	29.1	28.5

During testing, the engine speed was set to represent a typical electric motor RPM. Test 1 was pumping to the center pivot with a higher than normal discharge pressure. For Test 2 another line was opened to simulate a normal operating pressure. Fuel consumption rates are based on the customer's engine computer display gauge and Thermal HP was calculated using 140000 btu/gallon for diesel #2.

DAN JOHNSON  
Hydraulic/Industrial Test Supervisor





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CONFIDENTIAL/PROPRIETARY INFORMATION

September 9, 2005

2005

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

SUBJECT: HYDRAULIC TEST RESULTS - A WELL  
15183 W AVENUE A  
CUST #: 0-007-7591 - SERV ACCT #: 026-4284-96  
DATE OF TEST: September 7, 2005

In accordance with your request, a test was made on your turbine well pump on the date listed above. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

EQUIPMENT

PUMP: L&B NO: NO PLATE  
MOTOR: US NO: C603072-739 200 HP  
METER: 349-13899  
HYDRAULIC TEST REFERENCE NUMBER: 25854

TEST RESULTS

Discharge Pressure, PSI	38.7
Standing Water Level, Ft.	298.6
Drawdown, Ft.	20.8
Discharge Head, Ft.	89.4
Pumping Water Level, Ft.	319.4
Total Head, Ft.	408.8
Capacity, GPM	1,329.0
GPM per Ft. Drawdown	63.9
Acre Ft. Pumped in 24 Hrs.	5.874
kW Input to Motor	149.4
HP Input to Motor	200.3
Motor Load (%)	92.2
Measured Speed of Pump, RPM	1,781
kWh per Acre Ft.	611
Overall Plant Efficiency (%)	68.5
Customer Meter, GPM	1,268.0

This pump is operating in an efficient manner, however records indicate little or no usage during the last twelve months.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services

September 15, 2006



2006

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: A WELL  
Location: 15183 W AVENUE A HP: 200  
Cust. #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref #: 25854

In accordance with your request, a test was made on your turbine well pump on September 13, 2006. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: L&B No.: NO PLATE  
Motor Mfg.: US No.: C603072-739

**RESULTS**

Discharge Pressure, PSI	40.0
Standing Water Level, Feet	300.2
Drawdown, Feet	20.7
Discharge Head, Feet	92.4
Pumping Water Level, Feet	320.9
Total Head, Feet	413.3
Capacity, GPM	1,312.0
GPM per Foot Drawdown	63.4
Acre Feet Pumped in 24 Hours	5.799
kW Input to Motor	148.6
HP Input to Motor	199.3
Motor Load (%)	91.7
Measured Speed of Pump, RPM	1,780
kWh per Acre Foot:	615
Overall Plant Efficiency (%)	68.7
Customer Meter, GPM	1,246.0

  
DAN L. JOHNSON  
Manager  
Hydraulic Services

**Confidential / Proprietary Information**

September 15, 2006



ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: A WELL  
Location: 15183 W AVENUE A HP: 200  
Cust. #: 0-007-7591 Serv. Acct. #: 026-4284-96 *ok*  
Meter: 349M-9505 Pump Ref #: 25854

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 13, 2006, billing history for the past 12 months, and your current rate of TOU-PA-B.

	<u>Existing</u>
Total kWh	<b>455,904</b>
kW Input	<b>148.6</b>
kWh per Acre Foot	<b>615</b>
Acre Feet per Year	<b>741.2</b>
Average Cost per kWh	<b>\$0.10</b>
Average Cost per Acre Foot	<b>\$61.56</b>
Overall Plant Efficiency (%)	<b>68.7</b>
<hr/>	<hr/>
Total Annual Cost	<b>\$45,626.87</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

  
DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential / Proprietary Information**

September 14, 2007

2007

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: A.WELL  
Location: 15183 W AVENUE A HP: 200  
Cust. #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref #: 25854

In accordance with your request, a test was made on your turbine well pump on September 13, 2007. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**EQUIPMENT**

Pump Mfg.: L&B No.: NO PLATE  
Motor Mfg.: US No.: C603072-739

**RESULTS**

Discharge Pressure, PSI	43.5
Standing Water Level, Feet	302.6
Drawdown, Feet	19.9
Discharge Head, Feet	100.5
Pumping Water Level, Feet	322.5
Total Head, Feet	423.0
Capacity, GPM	1,255.0
GPM per Foot Drawdown	63.1
Acre Feet Pumped in 24 Hours	5.547
kW Input to Motor	148.3
HP Input to Motor	198.9
Motor Load (%)	91.5
Measured Speed of Pump, RPM	1,781
kWh per Acre Foot:	642
Overall Plant Efficiency (%)	67.4
Customer Meter, GPM	1,207

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential / Proprietary Information**

September 14, 2007

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: A WELL**  
Location: 15183 W AVENUE A HP: 200  
Cust. #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref #: 25854

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 13, 2007, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	<b>608,052</b>
kW Input	<b>148.3</b>
kWh per Acre Foot	<b>642</b>
Acre Feet per Year	<b>947.5</b>
Average Cost per kWh	<b>\$0.09</b>
Average Cost per Acre Foot	<b>\$57.03</b>
Overall Plant Efficiency (%)	<b>67.4</b>
<hr/>	
Total Annual Cost	<b>\$54,037.58</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 19, 2008

2008

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: A WELL  
Location: 15183 W AVENUE A HP: 200  
Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref. #: 25854

In accordance with your request, a test was made on your turbine well pump on September 15, 2008. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

Equipment		
Pump:	L&B	No: NO PLATE
Motor:	US	No: C603072-739

Results	
Discharge Pressure, PSI	51.5
Standing Water Level, Feet	303.1
Drawdown, Feet	20.7
Discharge Head, Feet	119.0
Pumping Water Level, Feet	323.8
Total Head, Feet	442.8
Capacity, GPM	1,231
GPM per Foot Drawdown	59.5
Acre Feet Pumped in 24 Hours	5.441
kW Input to Motor	146.8
HP Input to Motor	196.9
Motor Load (%)	92.0
Measured Speed of Pump, RPM	1,784
kWh per Acre Foot	648
Overall Plant Efficiency (%)	69.9
Customer Meter, GPM	1,149

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 19, 2008

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant:** A WELL  
**Location:** 15183 W AVENUE A HP: 200  
**Cust #:** 0-007-7591 **Serv. Acct. #:** 026-4284-96  
**Meter:** 349M-9505 **Pump Ref. #:** 25854

The following analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 15, 2008, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	<b>522,876</b>
kW Input	<b>146.8</b>
kWh per Acre Foot	<b>648</b>
Acre-Foot per Year	<b>807.4</b>
Average Cost per kWh	<b>\$0.09</b>
Average Cost per Acre Foot	<b>\$56.57</b>
Overall Plant Efficiency (%)	<b>69.9</b>
<hr/>	
Total Annual Cost	<b>\$45,667.99</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 11, 2009

2009

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: A WELL  
Location: 15183 W AVENUE A HP: 200  
Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref. #: 25854

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 9, 2009. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

Equipment		
Pump:	L&B	No: NO PLATE
Motor:	US	No: C603072-739

**Results**

Discharge Pressure, PSI	46.0
Standing Water Level, Feet	308.8
Drawdown, Feet	28.2
Discharge Head, Feet	106.3
Pumping Water Level, Feet	337.0
Total Head, Feet	443.3
Capacity, GPM	1,243
GPM per Foot Drawdown	44.1
Acre Feet Pumped in 24 Hours	5.494
kW Input to Motor	145.4
HP Input to Motor	195.0
Motor Load (%)	91.2
Measured Speed of Pump, RPM	1,782
Customer Meter, GPM	1,205
kWh per Acre Foot	635
Overall Plant Efficiency (%)	71.4

DAN L. JOHNSON  
Manager  
Hydraulic Services





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**EDISON**<sup>®</sup>

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September 11, 2009

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant:** A WELL  
Location: 15183 W AVENUE A HP: 200  
Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref. #: 25854

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 9, 2009, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	<b>540,156</b>
kW Input	<b>145.4</b>
kWh per Acre Foot	<b>635</b>
Acre Feet per Year	<b>850.3</b>
Average Cost per kWh	<b>\$0.09</b>
Average Cost per Acre Foot	<b>\$55.99</b>
Overall Plant Efficiency (%)	<b>71.4</b>
<hr/>	<hr/>
Total Annual Cost	<b>\$47,603.95</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

DAN L. JOHNSON  
Manager  
Hydraulic Services



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

An EDISON INTERNATIONAL<sup>®</sup> Company

**Confidential/Proprietary Information**

October 8, 2010

2010

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: A WELL  
Location: 15183 W AVENUE A HP: 200  
Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref. #: 25854

In accordance with your request, an energy efficiency test was performed on your turbine well pump on October 6, 2010. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

	<b>Equipment</b>	
Pump:	L&B	No: NO PLATE
Motor:	US	No: C603072-739

**Results -**

Discharge Pressure, PSI	<b>70.4</b>
Standing Water Level, Feet	<b>300.2</b>
Drawdown, Feet	<b>17.0</b>
Discharge Head, Feet	<b>162.6</b>
Pumping Water Level, Feet	<b>317.2</b>
Total Head, Feet	<b>479.8</b>
Capacity, GPM	<b>1,117</b>
GPM per Foot Drawdown	<b>65.7</b>
Acre Feet Pumped in 24 Hours	<b>4.937</b>
kW Input to Motor	<b>140.9</b>
HP Input to Motor	<b>188.9</b>
Motor Load (%)	<b>88.3</b>
Measured Speed of Pump, RPM	<b>1,784</b>
Customer Meter, GPM	<b>1,008</b>
<b>kWh per Acre Foot</b>	<b>685</b>
<b>Overall Plant Efficiency (%)</b>	<b>71.6</b>

RUSS JOHNSON  
Manager  
Hydraulic Services

**Confidential/Proprietary Information**

October 8, 2010



ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS**, Plant: A WELL  
 Location: 15183 W AVENUE A HP: 200  
 Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
 Meter: 349M-9505 Pump Ref. #: 25854

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on October 6, 2010, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

	<u>Existing</u>
Total kWh	<b>449,148</b>
kW Input	<b>140.9</b>
kWh per Acre Foot	<b>685</b>
Acre Feet per Year	<b>655.6</b>
Average Cost per kWh	<b>\$0.09</b>
Average Cost per Acre Foot	<b>\$63.89</b>
Overall Plant Efficiency (%)	<b>71.6</b>
<hr/>	
Total Annual Cost	<b>\$41,887.54</b>

The hydraulic test results indicate that this pump is operating in an efficient manner.

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
 Manager  
 Hydraulic Services

**Confidential/Proprietary Information**

September 9, 2011



2011

ATTN: JEAN MARITORENA  
JOSE MARITORENA, INC  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS, Plant: A WELL**  
Location: 15183 W AVENUE A HP: 200  
Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref. #: 25854

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 7, 2011. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**  
Pump: L&B No: NO PLATE  
Motor: US No: C603072-739

**Results**

Discharge Pressure, PSI	39.2
Standing Water Level, Feet	301.6
Drawdown, Feet	20.2
Discharge Head, Feet	90.6
Pumping Water Level, Feet	321.8
Total Head, Feet	412.4
Capacity, GPM	1,312
GPM per Foot Drawdown	65.0
Acre Feet Pumped in 24 Hours	5.799
kW Input to Motor	147.0
HP Input to Motor	197.1
Motor Load (%)	92.2
Measured Speed of Pump, RPM	1,779
Customer Meter, GPM	1,233
kWh per Acre Foot	608
Overall Plant Efficiency (%)	69.3

RUSS JOHNSON  
Manager  
Hydraulic Services



**Confidential/Proprietary Information**

September 9, 2011

ATTN: JEAN MARITORENA  
 JOSE MARITORENA, INC  
 300 E PANAMA RD  
 BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: A WELL**  
 Location: 15183 W AVENUE A HP: 200  
 Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
 Meter: 349M-9505 Pump Ref. #: 25854

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 7, 2011, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 69.3% to 72.0%.
2. This can save you up to 22,765 kWh and \$1,685.03 annually.
3. These kWh savings translate to a 9.9-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	609,864	587,099	22,765
kW Input	147.0	141.5	5.5
kWh per Acre Foot	608	586	23
Acre Feet per Year	1,002.3		
Average Cost per kWh	\$0.07		
Average Cost per Acre Foot	\$45.04	\$43.36	\$1.68
Overall Plant Efficiency (%)	69.3	72.0	
<hr/> Total Annual Cost	<hr/> \$45,142.13	<hr/> \$43,457.10	<hr/> \$1,685.03

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
 Manager  
 Hydraulic Services



**Confidential/Proprietary Information**

September 14, 2012

2012

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**HYDRAULIC TEST RESULTS**, Plant: A WELL  
Location: 15183 W AVENUE A HP: 200  
Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref. #: 25854

In accordance with your request, an energy efficiency test was performed on your turbine well pump on September 10, 2012. If you have any questions regarding the results which follow, please contact RICK KOCH at (805)654-7312.

**Equipment**

Pump: L&B No: NO PLATE  
Motor: US No: C603072-739

**Results**

Discharge Pressure, PSI	52.6
Standing Water Level, Feet	283.7
Drawdown, Feet	18.0
Discharge Head, Feet	121.5
Pumping Water Level, Feet	301.7
Total Head, Feet	423.2
Capacity, GPM	1,223
GPM per Foot Drawdown	67.9
Acre Feet Pumped in 24 Hours	5.406
kW Input to Motor	144.3
HP Input to Motor	193.5
Motor Load (%)	90.5
Measured Speed of Pump, RPM	1,781
Customer Meter, GPM	1,159
kWh per Acre Foot	641
Overall Plant Efficiency (%)	67.5

RUSS JOHNSON  
Manager  
Hydraulic Services



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September 14, 2012

*2012-2*  
*AVL-A*

JEAN MARITORENA  
JOSE MARITORENA, INC.  
300 E PANAMA RD  
BAKERSFIELD, CA 93307-6261

**PUMPING COST ANALYSIS, Plant: A WELL**  
Location: 15183 W AVENUE A HP: 200  
Cust #: 0-007-7591 Serv. Acct. #: 026-4284-96  
Meter: 349M-9505 Pump Ref.#: 25854

The following energy efficiency analysis is presented as an aid to your cost accounting. This is an estimate based on the conditions present during the Edison pump test performed on September 10, 2012, billing history for the past 12 months, and your current rate of TOU-PA-B-I.

Assuming that water requirements will be the same as for the past year, and all operating conditions (annual hours of operation, head above, and water pumping level) will remain the same as they were at the time of the pump test, it is estimated that:

1. Overall plant efficiency can be improved from 67.5% to 72.0%.
2. This can save you up to 32,011 kWh and \$2,423.27 annually.
3. These kWh savings translate to a 14-ton decrease in CO<sub>2</sub> emissions.

	<u>Existing</u>	<u>Plant Efficiency Improved</u>	<u>Savings</u>
Total kWh	517,152	485,141	32,011
kW Input	144.3	135.4	8.9
kWh per Acre Foot	641	601	40
Acre Feet per Year	807.1		
Average Cost per kWh	\$0.08		
Average Cost per Acre Foot	\$48.51	\$45.50	\$3.00
Overall Plant Efficiency (%)	67.5	72.0	
<b>Total Annual Cost</b>	<b>\$39,148.41</b>	<b>\$36,725.14</b>	<b>\$2,423.27</b>

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued. If you have any questions regarding this report, please contact RICK KOCH at (805)654-7312.

RUSS JOHNSON  
Manager  
Hydraulic Services