



2313 DURHAM-DAYTON HWY.
PO BOX 60
DURHAM, CA 95938
530-891-4621 PHONE, 530-891-0813 FAX

PUMP EFFICIENCY TEST REPORT

4

Nameplate HP on motor:	150
Motor RPM	1780
Motor Efficiency	92%
Motor factor (K _m):	not used
Depth of Pump	
Pump Make	US Motor
Driver Make	Preferred
Discharge Head Type	Cast
Column Diameter (in)	10
Shaft Length (ft)	
Shaft Diameter (inches)	

Customer: Ahumada, Michael

Test Date: 10/05/16 Meter #: 1010085293

Pump
Location: Sikes Rd. Dixon Ca.

GPS: ° _____
° _____

		Run Number		
		1	2	3
Standing Water Level (ft)		15	15	
Drawdown (ft)		35	40	
Pumping Water Level (ft)	1	50	55	
Discharge Pipe above ground (ft)		1	1	
Discharge Pressure at Gage (psf)		40	8	
Discharge Pressure at Gage (ft)	2	92.4	18.5	
Total Lift (ft)	3	142.4	73.5	
Column Friction Losses (ft)		1	1	
Discharge Head Loss (ft)		1	1	
Total Dynamic Head (ft)	4	144.4	75.5	
Flow Rate (GPM)	Q	2100	2700	
Water Horsepower	5	76.6	51.5	
Number of dial rotations				
Time for dial rotations (secs)		0	0	
OR				
KW from meter		77.5	78	
Input Horsepower	6	103.9	103.9	
Thrust Bearing Losses (hp)	7	0	0	
Shaft Losses (hp)	8			
Brake Horsepower (hp)	9	96	96	
Impeller Efficiency	10	80%	54%	
Pumping Plant Efficiency	11	74%	50%	
Well Yield (gallons per foot)		60.0	68%	
KWH/AF	12	200	156%	

P.G. & B. RATE SCHEDULE: _____

Pump Tester: Kiefer Nelson



Water Analysis

Date Received: 10/21/2016 7:38 am
Report Date: 10/26/2016 3:27 pm
Lab ID: 791437A

Source: Water
Purchase Order: Dixon Farms

Durham Pump Inc. P.O. Box 60 Durham, CA 95038		Sample ID: Dixon Farms Submitted By: Jerry Steels Grower: Durham Pump Inc.				
Analyte	Result	Units	mg/L	Low	Moderate	High
pH	7.6	SU				
E.C.e	1.14	mmhos				
Soluble Salts	729.6	ppm				
Nitrate Nitrogen	1.73	ppm				
Nitrate	7.66	ppm				
Bicarbonate	397	ppm	6.51			
Calcium	42.1	ppm	2.11			
Magnesium	86.4	ppm	7.11			
Sodium	64.2	ppm	2.79			
Potassium	< 0.50	ppm	0			
Boron	0.391	ppm				
Chloride	112	ppm	3.16			
Sulfate	92	ppm				
Sodium Absorption Ratio	1.32	-				
Zinc	-	ppm				
Iron	-	ppm				
Copper	-	ppm				
Manganese	-	ppm				

REVIEWED AND APPROVED BY: 

Liability Limits:

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, expressed or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.



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 PO BOX 60
 DURHAM, CA 95938
 530-891-4821 PHONE, 530-891-0613 FAX

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Pumping Plant Efficiency	11			74%	50%	
Well Yield (gallons per foot)			60.0	68%		
KWH/AF	12		200	156%		

P.G. & E. RATE SCHEDULE: _____

Pump Tester: Kiefer Nelson



W.M. P. WILSON & SONS

Invoice

Main Office:
Durham Pump, Inc.
2313 Durham-Dayton Hwy, Durham, CA 95938
530.891.4821 530.891.0613 Fax

CI #1271327

Woodland Branch:
Wm. P. Wilson & Sons
202 Kentucky Ave, Woodland, CA 95695
530.662.8654 530.662.5707 Fax

Number: 0158867-IN

Date: 10/11/2010

Page: 1

Order / Date: 0041397 9/26/2010

Customer #: 02-0001640

Salesperson: RANDY RICHTER

Please Remit All Payments to: Durham Pump, PO Box 60, Durham, CA 95938 Thank you!

Sold To: AHUMADA, MICHAEL
25872 STATE HIGHWAY 128
WINTERS, CA 95694-9019

Ship To: SIKES ROAD
7786 DELHI ROAD
NEAREST PHYSICAL ADDRESS
DIXON, CA 95620

Confirm to: MICHAEL AHUMADA

Job Name: PUMPEFF. TEST

Customer P.O. Ship VIA: F.O.B. Terms: COD BASIS ONLY

Item Code	Description	Unit	WH	Qty Ordered / Shipped	B.O.	Price	Amount
/PTST	PUMP EFF TEST/FLOW TEST INV					0.00	295.00

Signature	N/A	Taxable Amount:	0.00
		Non-Taxable Amount:	295.00
		Net Invoice:	295.00
		Less Discount:	0.00
		Sales Tax:	0.00
		Invoice Total:	295.00
		Less Deposit:	0.00
Invoice Balance:		295.00	

Paid by credit card

Main Office/Remit To:
Durham Pump, Inc.
2313 Durham-Dayton Hwy.
Durham, CA 95938
530.891.4821 530-891.0613 Fax

CL #271327

Woodland Branch:
Wm. P. Wilson & Sons
202 Kentucky Ave.
Woodland, CA 95695
530.662.8654 530.662.5797 Fax

Order Number	0041655
Order Date:	10/19/2016
Salesperson:	DOMESTIC SVC
Customer Num:	02-9001640

Page 1 of 1

Sold To: AHUMADA, MICHAEL
25872 STATE HIGHWAY 12B
WINTERS, CA 95694-9019

Ship To: SIKES ROAD
7796 DELHI ROAD
NEAREST PHYSICAL ADDRESS
DIXON, CA 95620

Confirm To: MICHAEL

Job Name: WATER TEST

Customer P.O.	Ship VIA:	F.O.B.	Terms:		
			COD BASIS ONLY		
Item Code	Item Description	Unit W/H	Qty. Ordered / Shipped / B/O	Price	Amount
WTEST	WATER TEST		0.00 0.00		250.00

*This Quote is based on information provided by the Customer.
Prices listed herein are good for 14 days from the Order Date shown above.*

I hereby approve and authorize Durham Pump, Inc. to proceed with the work as outlined herein..

Signed _____
Date _____

Taxable Amount:	0.00
Non-Taxable Amount:	250.00
Net Order:	250.00
Less Discount:	0.00
Sales Tax:	0.00
Order Total	250.00
Less Deposit:	0.00
Invoice Balance:	250.00



Integral Ag. Inc.

P.O. Box 537
Durham, CA 95938

Invoice

Date	Invoice #
10/26/2016	923

Bill To
Michael Ahumada

Ranch

Terms
Due on receipt

Item	Quantity	Description	Rate	Amount
Consulting Services Report preparation	0.45	Site Evaluation	150.00	67.50
	1.25	All consulting services not including research Report preparation and analysis	150.00	187.50
		Michael, I hope the report was useful. Please feel free to call or e-mail with Any questions. Mateo		
Thank you for your business.			Total	\$255.00

Main Office/Remit To:
Durham Pump, Inc.
2313 Durham-Dayton Hwy.
Durham, CA 95938
530.891.4821 530-891.0613 Fax

CL #271327

Woodland Branch:
Wm. P. Wilson & Sons
202 Kentucky Ave.
Woodland, CA 95695
530.662.8654 530.662.5797 Fax

Order Number	0035161
Order Date:	4/14/2015
Salesperson:	RANDY RICHTER
Customer Num	02-0000200

Page 1 of 1

Sold To: CASH CUSTOMER - WOODLAND PUMP
190 KENTUCKY AVE.
WOODLAND, CA 95695

Ship To: WOODLAND WAREHOUSE
190 KENTUCKY AVE
WOODLAND, CA 95695

Confirm To: SHERENE CHANDLER

Job Name: DIXON FARM 2600GPM @ 160'TDH

Customer P.O. _____ **Ship VIA:** _____ **F.O.B.** _____ **Terms:** NO TERMS

Item Code	Item Description	Unit	W/H	Qty. Ordered / Shipped /	B/O	Price	Amount
WELL TEST. PUMP CAPACITY 1500 GPM @ 160' TDH.							
/WTEST	INSTALL/REMOVE PUMP			0.00	0.00		3,950.00
INSTALL/REMOVAL AND RUN TEST PUMP 5 HRS.							
/WTEST	ADDITIONAL RUN TIME			0.00	0.00		300.00
ADDITIONAL 2 HRS RUN TIME CHARGED AT \$150 PER HR							
/PMAGPUMP	FBM 12V - 4STG BOWL	EACH		1.00	0.00	3,953.0000	3,953.00
/PMAGPUMP	150 HP US MTR 460V INV DUTY	EACH		1.00	0.00	14,965.0000	14,965.00
/PMAGPUMP	IQ1000 460V 150 HP VFD	EACH		1.00	0.00	18,650.0000	18,650.00
VFDMBS3000	KIT TRANSDUCER 0-145PSI 4-20MA	EA	200	1.00	0.00	254.9200	254.92
PCS22-2	WIRE SHIELDED 22/2	EA	200	50.00	0.00	0.5251	26.26
TAM-DH10X16-OL	DISCHARGE HEAD 10"x16" OL	EA	200	1.00	0.00	2,908.7100	2,908.71
D2I	ASCO SOLENOID VALVE 480V	EA	200	1.00	0.00	75.4106	75.41
TS2-1/2X1-1/2	TUBE/SHAFT 2-1/2"x1-1/2"x20'	EA	200	8.00	0.00	747.9540	5,983.63
S2.5X10	SPIDER RUBBER 10 X 2-1/2	EA	200	5.00	0.00	14.5985	72.99
CPB1020	COLUMN PIPE BUTT 10" X 20'	EA	200	8.00	0.00	884.9250	7,079.40
SP10	SUCTION PIPE 10" X 10'	EA	200	1.00	0.00	494.0190	494.02
1540-10	SCREEN CONE WELD ON 10 GALV	EA	200	1.00	0.00	163.6419	163.64
/PMAT	TAPE, SEALANT & OIL			0.00	0.00		250.00
/PLABOR	INSTALL PUMP			0.00	0.00		1,825.00

NOT INCLUDED IN THE ABOVE ESTIMATE IS THE 400 AMP ELECTRICAL SERVICE DROP & INCOMING POWER.

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Signed _____
Date _____

Taxable Amount:	54,876.98
Non-Taxable Amount:	6,075.00
Net Order:	60,951.98
Less Discount:	0.00
Sales Tax:	4,527.41
Order Total:	65,479.39