

## **EXHIBIT K**

**Response to Item 28: Pump Tests/Diesel Records for Existing Wells on Los Angeles World  
Airports Property for 2000, 2001, 2002, 2003, 2004, 2011 and 2012**



# PUMP CHECK

Pumping Systems Analysts  
Hydraulic Test Report

(909) 684-9801 • Lic. 408415 • Fax (909) 684-2988

A-G Sod Farms, Inc. / Palmdale  
40th East & Avenue N

Test Date: 09/08/2000  
Plant: Well #1 West

A test was made on this deep well turbine pump and the following information was obtained.

## EQUIPMENT

PUMP:	Peerless	SERIAL:	n/a
ENGINE:	Cummins	SERIAL:	45485296

## TEST RESULTS

	TEST 1	TEST 2
Discharge, PSI	59.5	40.5
Discharge head, feet	137.4	93.6
Standing water level, feet	320.9	
Drawdown, feet	46.1	39.4
Pumping water level, feet	367.0	360.3
Total pumping head, feet	504.4	453.9
<b>Gallons per minute flow</b>	<b>1130</b>	<b>907</b>
Gallons per foot of drawdown	24.5	23.0
Acre feet pumped per 24 hours	4.995	4.010
Fuel, gallons per hour	9.225	6.696
Thermal H.P.	507.4	368.3
<i>Estimated BHP</i>	173.0	125.6
Measured speed of engine, RPM	1960	1781
Measured speed of pump, RPM	1960	1781
Gallons of fuel per acre foot	44.3	40.1
<b>Overall Plant efficiency in %</b>	<b>28.4</b>	<b>28.2</b>
<i>Estimated pump efficiency in %</i>	83.2	82.8

Test 1 was the normal operation of the pump with full pivot at the time of the test. The other results were obtained at increased speed.

The tachometer on the engine was about 40 rpm below actual.

If you have any questions please call Jon Lee at (909) 684-9801.

## ANNUAL PUMPING COST ANALYSIS

A-G Sod Farms, Inc. / Palmdale

Test date: 09/08/2000

Plant: Well #1 West  
 H.P. 150

The following cost analysis is presented as an aid to your cost accounting and planning. It is an Estimate based on the pump test data and your energy use or hours of operation during the previous 12-month period.

	EXISTING CONDITIONS	
Average fuel cost per gallon	1.2100	
Hours of operation per year	3500	
Equivalent 24 hour days	145.8	
	Test 1	Test 2
Acre feet pumped per 24 hour day	4.995	4.010
Fuel input, GPH	9.225	6.696
Average fuel cost per hour	\$11.16	\$8.10
Hourly engine maint.	\$1.02	\$1.02
Total operating cost per hour	\$12.18	\$9.12
Average oper. cost per acre foot	\$58.54	\$54.61

728



# PUMP CHECK

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Hydraulic Test Report

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AG Sod Farms Inc. / Palmdale  
40th East & Avenue N

Test Date: 09/08/2000  
Plant: Well #2 East

A test was made on this deep well turbine pump and the following information was obtained.

## EQUIPMENT

PUMP: Layne & Bowler SERIAL: n/a  
ENGINE: John Deere SERIAL: RG6076T553337

## TEST RESULTS

	TEST 1	TEST 2
Discharge, PSI	31.0	27.0
Discharge head, feet	71.6	62.4
Standing water level, feet	309.1	
Drawdown, feet	37.0	33.7
Pumping water level, feet	346.1	342.8
Total pumping head, feet	417.7	405.2
<b>Gallons per minute flow</b>	<b>732 ~</b>	<b>706 ~</b>
Gallons per foot of drawdown	19.8	20.9
Acre feet pumped per 24 hours	3.236	3.118
Fuel, gallons per hour	6.383	5.826
Thermal H.P.	351.1	320.4
<i>Estimated BHP</i>	121.0	110.4
Measured speed of engine, RPM	1826 ~	1773 ~
Measured speed of pump, RPM	1826	1773
Gallons of fuel per acre foot	47.3	44.8
<b>Overall Plant efficiency in %</b>	<b>22.0</b>	<b>22.5</b>
<i>Estimated pump efficiency in %</i>	63.9	65.4

Test 1 was the normal operation of the pump with full pivot at the time of the test. The other results were obtained at reduced speed.

The tachometer on the engine was about 150 rpm below actual.

If you have any questions please call Jon Lee at (909) 684-9801.

## ANNUAL PUMPING COST ANALYSIS

AG Sod Farms Inc. / Palmdale

Test date: 09/08/2000

Plant: Well #2 East  
H.P. 150

The following cost analysis is presented as an aid to your cost accounting and planning. It is an Estimate based on the pump test data and your energy use or hours of operation during the previous 12-month period.

	EXISTING CONDITIONS	
Average fuel cost per gallon	1.2100	
Hours of operation per year	3500	
Equivalent 24 hour days	145.8	
	Test 1	Test 2
Acre feet pumped per 24 hour day	3.236	3.118
Fuel input, GPH	6.383	5.826
Average fuel cost per hour	\$7.72	\$7.05
Hourly engine maint.	\$1.02	\$1.02
Total operating cost per hour	\$8.74	\$8.07
Average oper. cost per acre foot	\$64.84	\$62.11

4/7/8





# PUMP CHECK

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Hydraulic Test Report

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A-G Sod Farms, Inc. / Palmdale  
40th East & Avenue N

Test Date: 09/08/2000  
Plant: Well #3 North

A test was made on this deep well turbine pump and the following information was obtained.

## EQUIPMENT

PUMP:	Layne & Bowler	SERIAL:	n/a
ENGINE:	Detroit	SERIAL:	UL0453

## TEST RESULTS

	TEST 1	TEST 2
Discharge, PSI	56.5	40.5
Discharge head, feet	130.5	93.6
Standing water level, feet	313.2	
Drawdown, feet	20.1	17.3
Pumping water level, feet	333.3	330.5
Total pumping head, feet	463.8	424.1
<b>Gallons per minute flow</b>	<b>884</b>	<b>759</b>
Gallons per foot of drawdown	44.0	43.9
Acre feet pumped per 24 hours	3.906	3.354
Fuel, gallons per hour	9.643	8.069
Thermal H.P.	530.4	443.8
<i>Estimated BHP</i>	159.2	133.2
Measured speed of engine, RPM	1521	1443
Measured speed of pump, RPM	1521	1443
Gallons of fuel per acre foot	59.2	57.7
<b>Overall Plant efficiency in %</b>	<b>19.5</b>	<b>18.3</b>
<i>Estimated pump efficiency in %</i>	65.0	61.0

Test 1 was the normal operation of the pump with full pivot at the time of the test. The other results were obtained at increased speed.

If you have any questions please call Jon Lee at (909) 684-9801.

## ANNUAL PUMPING COST ANALYSIS

A-G Sod Farms, Inc. / Palmdale

Test date: 09/08/2000

Plant: Well #3 North  
 H.P. 350

The following cost analysis is presented as an aid to your cost accounting and planning. It is an Estimate based on the pump test data and your energy use or hours of operation during the previous 12-month period.

	EXISTING CONDITIONS	
Average fuel cost per gallon	1.2100	
Hours of operation per year	1750	
Equivalent 24 hour days	72.9	
	Test 1	Test 2
Acre feet pumped per 24 hour day	3.906	3.354
Fuel input, GPH	9.643	8.069
Average fuel cost per hour	\$11.67	\$9.76
Hourly engine maint.	\$2.38	\$2.38
Total operating cost per hour	\$14.05	\$12.14
Average oper. cost per acre foot	\$86.32	\$86.90

284.



# PUMP CHECK

Pumping Systems Analysts  
Hydraulic Test Report

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A.G. Sod Farms, Inc.  
40th East & Avenue N

Test Date: 02/18/02  
Plant No: Well #2 East  
Lat/Lon: 34.37.44N/118.02.59W

A test was made on this deep well turbine pump and the following information was obtained.

## EQUIPMENT

PUMP: Layne & Bowler      SERIAL: n/a  
ENGINE: John Deere      SERIAL: RG6076T55333

## TEST RESULTS

	TEST 1	TEST 2	TEST 3
Discharge, PSI	10.0	25.0	31.0
Discharge head, feet	23.1	57.8	71.6
Standing water level, feet	269.8		
Drawdown, feet	12.6	24.3	29.6
Pumping water level, feet	282.4	294.1	299.4
Total pumping head, feet	305.5	351.9	371.0
<b>Gallons per minute flow</b>	<b>326</b>	<b>572</b>	<b>679</b>
Gallons per foot of drawdown	25.9	23.5	22.9
Acre feet pumped per 24 hours	1.441	2.528	3.000
Fuel, gallons per hour	3.127	4.970	5.622
Thermal H.P.	172.0	273.3	309.2
<i>Estimated BHP</i>	63.0	100.1	113.2
Measured speed of engine, RPM	1453	1699	1772
Measured speed of pump, RPM	1453	1699	1772
Gallons of fuel per acre foot	52.1	47.2	45.0
<b>Overall plant efficiency in %</b>	<b>14.6</b>	<b>18.6</b>	<b>20.6</b>
<i>Estimated pump efficiency in %</i>	39.9	50.8	56.2

Test 1 was the normal operation of the pump at the time of the test. The other results were obtained by increasing the pump speed.

If you have any questions please call Jon Le ar (909) 684-9801.



## ANNUAL PUMPING COST ANALYSIS

A.G. Sod Farms, Inc.

Test date: 02/18/02

Plant: Well #2 East  
H.P. 150

The following cost analysis is presented as an aid to your cost accounting and planning. It is an Estimate based on the pump test data and an estimate of your hours of operation during the previous 12-month period.

EXISTING  
CONDITIONS

Average fuel cost per gallon	0.8000
Hours of operation per year	3500
Equivalent 24 hour days	145.8

	Test 1	Test 2	Test 3
Acre feet pumped per 24 hour day	1.441	2.528	3.000
Fuel input, GPH	3.127	4.970	5.622
Average fuel cost per hour	\$2.50	\$3.98	\$4.50
Hourly engine maint.	\$1.02	\$1.02	\$1.02
Total operating cost per hour	\$3.52	\$5.00	\$5.52
Average oper. cost per acre foot	\$58.66	\$47.44	\$44.14

437.4  
AC/ft

The following:



Since 1958

# PUMP CHECK

Pumping Systems Analysts

Hydraulic Test Report

(909) 684-9801

• Lic. 408415

• Fax (909) 684-2988

A.G. Sod Farms, Inc.  
N/O Avenue N, w/o 50th St. East

Test Date: 02/18/02  
Plant: Well #3 North

A test was made on this deep well turbine pump and the following information was obtained.

## EQUIPMENT

PUMP:	Layne & Bowler	SERIAL:	n/a
ENGINE:	Cummins	SERIAL:	4548529

## TEST RESULTS

	TEST 1	TEST 2
Discharge, PSI	56.5	44.0
Discharge head, feet	130.5	101.6
Standing water level, feet	270.3	
Drawdown, feet	19.0	18.7
Pumping water level, feet	289.3	289.0
Total pumping head, feet	419.8	390.6
<b>Gallons per minute flow</b>	<b>931</b>	<b>825</b>
Gallons per foot of drawdown	49.0	44.1
Acre feet pumped per 24 hours	4.114	3.646
Fuel, gallons per hour	8.283	6.921
Thermal H.P.	455.6	380.7
<i>Estimated BHP</i>	166.9	139.4
Measured speed of engine, RPM	1871	1765
Measured speed of pump, RPM	1871	1765
Gallons of fuel per acre foot	48.3	45.6
<b>Overall Plant efficiency in %</b>	<b>21.7</b>	<b>21.4</b>
<i>Estimated pump efficiency in %</i>	59.2	58.4

Test 1 was the normal operation of the pump while pumping to the full North pivot. The other results were obtained at lower pump speed.

If you have any questions please call Jon Le ar (909) 684-9801.

## ANNUAL PUMPING COST ANALYSIS

A.G. Sod Farms, Inc.

Test date: 02/18/02

Plant: Well #3 North  
 H.P. 230

The following cost analysis is presented as an aid to your cost accounting and planning. It is an Estimate based on the pump test data and an estimate of your hours of operation during the previous 12-month period.

EXISTING  
CONDITIONS

Average fuel cost per gallon	0.8000
Hours of operation per year	3500
Equivalent 24 hour days	145.8

	Test 1	Test 2
Acre feet pumped per 24 hour day	4.114	3.646
Fuel input, GPH	8.283	6.921
Average fuel cost per hour	\$6.63	\$5.54
Hourly engine maint.	\$1.56	\$1.56
Total operating cost per hour	\$8.19	\$7.10
Average oper. cost per acre foot	\$47.78	\$46.75

599.82  
 AC/Ft



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# PUMP CHECK

Pumping Systems Analysts

Hydraulic Test Report

(951) 684-9801 • Lic. 799498 • Fax (951) 684-2988

AG Sod Farms Inc. - Palmdale  
North of Avenue N, west of 50th Street East

Test Date: 08/18/2010  
Pump Type: DWT  
Plant: Well #3 North

A test was made on this deep well turbine pump and the following information was obtained.

## EQUIPMENT

Pump:	Layne & Bowler	Serial:	N/A
Engine:	Cummins	Serial:	4548529
HP:	230	Lat/Lon:	34.38.326n118.02.509w
		Ref #:	PC 313

## TEST RESULTS

### TEST 1

Discharge, PSI	41.0
Discharge head, feet	94.7
Standing water level, feet	340.5
Drawdown, feet	19.2
Pumping water level, feet	359.7
Total pumping head, feet	454.4
<b>Gallons per minute flow</b>	<b>750</b>
Gallons per foot of drawdown	39.0
Acre feet pumped per 24 hours	3.312
Measured speed of engine, RPM	1851
Measured speed of pump, RPM	1851

*119.92 ft/ft*

Test 1 was with this pump operating to the South Pivot.

If you have any questions please contact Jon Lee at (951) 684-9801.

*Start 12381*  
*11-8-12 total 13250*  
*# 220*

## ANNUAL PUMPING COST ANALYSIS

AG Sod Farms Inc. - Palmdale

Test date: 08/18/2010

Plant: Well #3 North  
H.P. 230

The following cost analysis is presented as an aid to your cost accounting and planning. It is an Estimate based on the pump test data and your energy use or hours of operation during the previous 12-month period.

EXISTING  
CONDITIONS

## Test 1

Acre feet pumped per 24 hour day	3.312
Hourly engine maint.	\$1.56

300





Since 1958

# PUMP CHECK

Pumping Systems Analysts

Hydraulic Test Report

(951) 684-9801 • Lic. 799498 • Fax (951) 684-2988

AG Sod Farms, Inc. - Palmdale  
North of Avenue N, west of 50th Street East

Test Date: 09/26/2011  
Pump Type: DWT  
Plant: Well #3 North

A test was made on this deep well turbine pump and the following information was obtained.

## EQUIPMENT

Pump:	Layne & Bowler	Serial:	N/A
Engine:	Cummins	Serial:	4548529
HP:	230	Lat/Lon:	34.38.326n118.02.509w
Meter:	N/A	Ref #:	PC 313

## TEST RESULTS

### TEST 1

Discharge, PSI	41.0
Discharge head, feet	94.7
Standing water level, feet	346.5
Drawdown, feet	10.9
Pumping water level, feet	357.4
Total pumping head, feet	452.1
<b>Gallons per minute flow</b>	<b>741</b>
Gallons per foot of drawdown	67.9
Acre feet pumped per 24 hours	3.273
Measured speed of engine, RPM	1860
Measured speed of pump, RPM	1860

*Hg*  
*170 Mc/ft*

Test 1 was with this pump operating to the South Pivot at the time of the test.

If you have any questions please contact Jon Lee at (951) 684-9801.

## ANNUAL PUMPING COST ANALYSIS

AG Sod Farms, Inc. - Palmdale

Test date: 09/26/2011

Plant: Well #3 North  
 H.P. 230

The following cost analysis is presented as an aid to your cost accounting and planning. It is an Estimate based on the pump test data and your energy use or hours of operation during the previous 12-month period.

EXISTING  
CONDITIONS

Average fuel cost per gallon	3.0000	Estimated
Hours of operation per year	1500	
Equivalent 24 hour days	62.5	

## Test 1

Acre feet pumped per 24 hour day	3.273
Hourly engine maint.	\$1.56



# PUMP CHECK

Pumping Systems Analysts

Hydraulic Test Report

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AG Sod Farms, Inc. - Palmdale  
North of Avenue N west of 50th Street East

Test Date: 11/12/2012  
Pump Type: DWT  
Plant: Well #3 North

A test was made on this deep well turbine pump and the following information was obtained.

## EQUIPMENT

Pump:	Layne & Bowler	Serial:	N/A
Engine:	Cummins	Serial:	4548529
HP:	230	Lat/Lon:	34.38.326n118.02.509w
Meter:	Diesel	Ref #:	PC 313

## TEST RESULTS

### TEST 1

Discharge, PSI	42.0
Discharge head, feet	97.0
Standing water level, feet	333.5
Drawdown, feet	10.3
Pumping water level, feet	343.8
Total pumping head, feet	440.8
<b>Gallons per minute flow</b>	<b>712</b>
Gallons per foot of drawdown	69.2
Acre feet pumped per 24 hours	3.148
Measured speed of engine, RPM	1847
Measured speed of pump, RPM	1847

Test 1 was with this pump operating to the South Pivot at the time of the test.

If you have any questions please contact Jon Lee at (951) 684-9801.

## ANNUAL PUMPING COST ANALYSIS

AG Sod Farms, Inc. - Palmdale

Test date: 11/12/2012

Plant: Well #3 North  
 H.P. 230

The following cost analysis is presented as an aid to your cost accounting and planning. It is an Estimate based on the pump test data and your energy use or hours of operation during the previous 12-month period.

EXISTING  
CONDITIONS

Average fuel cost per gallon	3.0000	Estimated
Hours of operation per year	1500	Estimated
Equivalent 24 hour days	62.5	

## Test 1

Acre feet pumped per 24 hour day	3.148
Hourly engine maint.	\$1.56