EXHIBIT "E4" part 2

TO

EXHIBIT "1"

TO STIPULATION RE: GROUNDWATER PUMPING AND WATER USE BY BOLTHOUSE PROPERTIES, LLC

Well:	
Meter:	
Legal:	
Location: Rower 2-1	

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Dresser H.P.: 300 Volts: R.P.M.: Serial #: C060-AL-88001

Frame: Type: Pump: Type Oil Lube:

Date:	12-1-07								
Standing Water	can't								
Draw Down	test								
Pumping Level	level								
Lift Above Discharge	20.79								
Total Lift									
G.P.M.	999								
GPM/FT			999 15 gpm						
AC Ft. In. 24 Hrs.									
HP Input RPM	1750	187	.92 b	Flow meter 1000		8" TPS .250 Wall			
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	SVP 951

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Dresser H.P.: 300 Volts: R.P.M.: Serial #: C109011

Frame: Type: Pump: Type Oil Lube:

Date:	12-3-07								
Standing Water	196								
Draw Down									
Pumping Level	??								
Lift Above Discharge	23.1								
Total Lift									
G.P.M.	816								
GPM/FT			816						
AC Ft. In. 24 Hrs.									
HP Input RPM	1700	9.9	102 bs	Below-Spot Broke		10" TPS	250 Well.		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	3073 SAF

1-21-08

Pump Data Installation Date:	
Pump Setting :	
Akima :	399
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	15109010

Motor: [redacted] De Ran H.P. 300 Volts: R.P.M.: Serial #: [redacted]

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	~~[illegible]~~	Can Could							
Draw Down									
Pumping Level	~~[illegible]~~	Not Get							
Lift Above Discharge	147.84								
Total Lift									
G.P.M.	1411.		1411 gal						
GPM/FT		7							
AC Ft. In. 24 Hrs.	1800	17.1	642 bs		Flow meter 1350 gal		10" IPS	250 gall.	
HP Input RPM									
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	S VP 3 5-4-5
Location:	

1-24-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Deron H.P. 200 HP Volts: R.P.M.: Serial # C 8/00090
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	Down not Set								
Draw Down									
Pumping Level									
Lift Above Discharge	129.36								
Total Lift									
G.P.M.	~~5800~~	726							
GPM/FT.									
AC Ft. In 24 Hrs.									
HP Input RPM	1800	8.8 = 726 gpm 5.5 453 gpm		5626	Flow meter 450 to 600		10" TPS	250 mill	
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Manometer go up & Down the Lines 8.8 to 5.5

Well:	
Meter:	
Legal:	
Location: Bushnell	10-3

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Deere H.P.: 300 Volts: R.P.M.: Serial #: B 805 026

Frame: Type: Pump: Type Oil Lube:

Date:	11-26-07								
Standing Water	Cost Set								
Draw Down	Jerrelo								
Pumping Level									
Lift Above Discharge	20.79								
Total Lift									
G.P.M.	1114								
GPM/FT									
AC Ft. In. 24 Hrs.									
HP Input RPM	1600	13.5	92 bs	1114 US Prod		10" TPS	.250 wall		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Bushland 10-4 West ~~East~~

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Johnson H.P.: 425 HP Volts: R.P.M.: Serial #: 168500

Frame: Type: Pump: Type Oil Lube:

Date:	11-26-07								
Standing Water	310'								
Draw Down	16								
Pumping Level	326'								
Lift Above Discharge	76.23								
Total Lift	402.23								
G.P.M.	1774								
GPM/FT			1774 gpm						
AC Ft. In. 24 Hrs.									
HP Input RPM	1700.	21.5	33 Lbs		~~Flat~~ mtr 1700	10" IPS	.250 Wall		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Hawkins 29 / West

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Johnson H.P.: 500 Volts: R.P.M.: Serial #: 165693

Frame: Type: Pump: Type Oil Lube:

Date:	11-26-07								
Standing Water	338								
Draw Down	24								
Pumping Level	362								
Lift Above Discharge	43.89								
Total Lift	405.89								
G.P.M.	1832		1832 GPM						
GPM/FT									
AC Ft. In. 24 Hrs.					Flowmeter				
HP Input RPM	1700	22.2	19 Lbs	1750 2000	10"	TPS	250 W all.		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Pander 20-4 East

Pump Data Installation Date:	
Pump Setting :	
Airline :	420
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Johnson H.P.: 350 Volts: R.P.M.: Serial #: 166047

Frame: Type: Pump: Type Oil Lube:

Date:	11-29-07								
Standing Water	45 Lbs	316							
Draw Down		58							
Pumping Level	20 Lbs	374							
Lift Above Discharge		97							
Total Lift		471							
G.P.M.		899							
GPM/FT									
AC Ft. In. 24 Hrs.	1730	10.9	42 Lbs		10"	I.P.S	.250 wall.		
HP Input RPM									
KW Input									
KW Hours Per AC/Ft.									
BFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Anderson - North

1-22-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Johnson H.P. 350 HP Volts: R.P.M.: Serial # 169341
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	127'								
Draw Down	64								
Pumping Level	191'								
Lift Above Discharge	46.2								
Total Lift	237.20								
G.P.M.	2475								
GPM/FT			2475 gal.						
AC Ft. In. 24 Hrs.					2500				
HP Input RPM	1800	350	200 Lbs	Flow meter		10" T.P.S.	250 volt.		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Anderson south

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Johnson H.P. 350 Volts: R.P.M.: Serial #: 169342

Frame: Type: Pump: Type Oil Lube:

Date:	12-4-07								
Standing Water	135'								
Draw Down	51								
Pumping Level	186'								
Lift Above Discharge	85.47'								
Total Lift	271.47								
G.P.M.	2096		2096 GPM						
GPM/FT									
AC Ft. In. 24 Hrs.									
HP Input RPM	1700	25.4	37 Lbs	Flow-Meter 2000 gal.	10" TRS	200 Wall			
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Brium Cost

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto[redacted] Deron H.P. 300 Volts: R.P.M.: Serial # [redacted] 1370470

Fram[redacted] Type: Pump: Type Oil Lube:

Date:	12-4-07								
Standing Water	116'								
Draw Down	110								
Pumping Level	226'								
Lift Above Discharge	67								
Total Lift	293								
G.P.M.	1023		1023 RPM						
GPM/FT									
AC Ft. In. 24 Hrs.									
HP Input RPM	1700	12.4	29 Lbs	2 low water 100% gal		10" IPS	.250 Wall		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Turner-South

1-22-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: 500 H.P. Johnson Volts: R.P.M.: Serial #: 169244
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	140'								
Draw Down	56								
Pumping Level	196'								
Lift Above Discharge	138.6								
Total Lift	334.60								
G.P.M.	2475								
GPM/FT									
AC Ft. In. 24 Hrs.		2975 gal			2568 gal				
HP Input RPM	1800	30.0	602 lbs	Flow meter		10" TPS	250 mcf/l		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	SW 38-2

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Dir Rev H.P.: 300 Volts: R.P.M.: Serial #: C209 042

Frame: Type: Pump: Type Oil Lube:

Date:	11-30-07								
Standing Water	250'								
Draw Down	32								
Pumping Level	282'								
Lift Above Discharge	177.87								
Total Lift	459.87								
G.P.M.	1114								
GPM/FT				1115 gpm					
AC Ft. In. 24 Hrs.									
HP Input RPM	1700	13.5	456bs	Flow meter Broken		10" TPS	200	Well	
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	35-4-M

1-24-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Dawn H.P. 360 Volts: R.P.M.: Serial #: [redacted] 200808

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	189	~~207~~	10min recovery						
Draw Down	87								
Pumping Level	276	~~10 min pumping~~							
Lift Above Discharge	110.88								
Total Lift	386.88								
G.P.M.	1015								
GPM/FT									
AC Ft. In. 24 Hrs.			1015 gal.		flowmeter broke				
HP Input RPM	1800	12.3	4826			10" IPS	.250	Well	
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:
Meter:
Legal:
Location:

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Aval 14-3-N

10-23-08

Serial # C109015

Motor: DeRam H.P. 450 HP Volts: R.P.M.: Type Oil Lube:
Frame: Type: Pump:

Date:									
Standing Water	275'								
Draw Down	33								
Pumping Level	308'								
Lift Above Discharge	23.1								
Total Lift	331.1								
G.P.M.	2312	2302 gal							
GPM/FT	72.48								
AC Ft. In. 24 Hrs.	10.57								
HP Input RPM	1297	1170	101 bs						
KW Input									
KW Hours Per AC/Ft.									
EEP									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Arval 14-3-5

10-23-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
GT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Delron H.P. 300 HP Volts: R.P.M.: Serial #: C109010

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	Can not get levels								
Draw Down									
Pumping Level									
Lift Above Discharge	115.5								
Total Lift		1153 ft							
G.P.M.	1155								
GPM/FT.									
AC Ft. In. 24 Hrs.	5.10			Flow meter 1100					
HP Input RPM	1792	140	502 lbs		10" TPS 0250 Well				
KW Input									
KW Hours Per AC/Ft.									
HHP									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Avo L 25-3 10-1-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Deran H.P. 450 Volts: R.P.M.: Serial # C111072

Frame: Type: Pump: Type Oil Lube:

Date:		10-1-08							
Standing Water	44 Lbs	365'	467'	air Line					
Draw Down	23'	23'	480'	pump in hole					
Pumping Level	34 LBS	388							
Lift Above Discharge		41.5							
Total Lift		429.6							
G.P.M.		2054			flow meter				
GPM/FT		89.3	2054 gal		2000				
AC Ft. In. 24 Hrs.		9.0							
HP Input RPM	1780	24.9	18 Lbs	10" FPS	250 Wa.L.V				
KW Input									
KW Hours Per AC/Ft.									
BFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	AVOL 21-01

10-3-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Deran H.P. 450 HP Volts: R.P.M.: Serial # C111080

Fram Type: Pump: Type Oil Lube:

Date:	10/3/08								
Standing Water	334'								
Draw Down	17'								
Pumping Level	351								
Lift Above Discharge	20'								
Total Lift	371								
G.P.M.	2475	2475							
GPM/FT	145.6								
AC Ft. In. 24 Hrs.	10.9								
HP Input RPM	1795	30.0	20 Lbs		10" Tops .250 Wall				
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well: Dach
Meter:
Legal:
Location:

12-12-08

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Bowls:
Well Depth:
Bionic:
Perforations:

Motor: Deran H.P. 4.50 1+P Volts: R.P.M.: Serial C109 014
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	332'								
Draw Down	24								
Pumping Level	356'								
Lift Above Discharge	97	2013							
Total Lift	453								
G.P.M.	2013								
GPM/FT.	83.9								
AC Ft. In. 24 Hrs.	8.9								
HP Input RPM	1790	24.4	42 265		10" 250 Well DIS				
KW Input									
KW Hours Per AC/Ft.									
HFP									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Hawiian 29-1 East

9-30-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Deran H.P. G400 Volts: R.P.M.: Serial # G105053

Fram Type: Pump: Type Oil Lube:

Date:									
Standing Water	334'								
Draw Down	30'								
Pumping Level	364'								
Lift Above Discharge	57.75								
Total Lift	421.75								
G.P.M.	2050								
GPM/FT	68.3								
AC Ft. In. 24 Hrs.	7.7	~~[illegible]~~		Flow Meter 2050 gpm					
HP Input RPM	1700	23.6	25 Lbs		10" FPS		2.50 wall		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well: Wood 13-3
Meter:
Legal:
Location:

12-16-08

Pump Data Installation Date:
Pump Setting :
Airline :
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Motor: Dayton H.P. 450 Volts: R.P.M.: Serial C11071.
Frame Type: Pump: Type Oil Lube:

Date:									
Standing Water	324'								
Draw Down	50								
Pumping Level	324'								
Lift Above Discharge	30'								
Total Lift	354								
G.P.M.	2021	2002							
GPM/FT.	40.42								
AC Ft. In. 24 Hrs.	8.9								
HP Input RPM	1800	2485	13 205	10	CPS	250 Well.			
KW Input									
KW Hours Per AC/Ft.									
HP									
Cost Per AC/Ft.									

Well:
Meter:
Legal:
Location: Mann 22-2 W

10-24-08

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Motor: Delcom. H.P. 300 HP Volts: R.P.M.: Serial # B901032
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	2.82'								
Draw Down	37								
Pumping Level	3.19'								
Lift Above Discharge	20.79								
Total Lift	334.79								
G.P.M.	2302	2300 gpl							
GPM/FT.	62.22								
AC Ft. In. 24 Hrs.	10.17								
HP Input RPM	18.00	27.9			10" CPS	2052 Wall			
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Minn - 23-4

10-23-08

Pump Date Installation Date:	
Pump Setting:	
Airline:	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Da-Ron H.P. 450 HP Volts: R.P.M.: Serial # 6111081

Fram: Type: Pump: Type Oil Lube:

Date:									
Standing Water	300'								
Draw Down	35								
Pumping Level	335'								
Lift Above Discharge	20.79		49 gal						
Total Lift	355.79	80							
G.P.M.	1774								
GPM/FT	50.69								
AC Ft. In. 24 Hrs.	7.84		Flow meter 1605 gal.						
HP Input RPM	1797	21.5		9 Lbs	10" LPS 250 Wall				
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Motor:	
Legal: Mann	22-2-B
Location:	

Pump Data Installation Date:	
Pump Setting:	
Airline:	
GT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: DeRam H.P. 300 Volts: R.P.M.: 1800 Serial # 15 20808

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	279'								
Draw Down	40								
Pumping Level	319'								
Lift Above Discharge	92.4								
Total Lift	411.4								
G.P.M.	2.04								
GPM/FT	30.1	120 gal		147 gal					
AC Ft. In. 24 Hrs.	5.32	1'		7 hour					
HP Input RPM	1800	14.6	40 lbs	Flow Meter	10" TPS	200 Watt			
KW Input									
KW Hours Per AC/Ft.									
BFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	MIN 22-4

10-3-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Deran H.P. 300 HP Volts: R.P.M.: Serial # G 410.111

Fram Type: Pump: Type Oil Lube:

Date:									
Standing Water	300'								
Draw Down	55'								
Pumping Level	355								
Lift Above Discharge	41.6								
Total Lift	396.6								
G.P.M.	2005								
GPM/FT	36.45	2005 gal							
AC Ft. In. 24 Hrs.	8.86			Flow meter 1006 gal					
HP Input RPM	1790	24.3	18 Lbs		10'	IPS	250 wall		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	MIN 23-3

10-2-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Deran H.P. 300 Volts: R.P.M.: Serial # G201046

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	Can't get Levels								
Draw Down									
Pumping Level									
Lift Above Discharge	115.5								
Total Lift									
G.P.M.	957								
GPM/FT									
AC Ft. In. 24 Hrs.	4.23	957 gal		Flow meter	1100 gal				
HP Input RPM	1800	11.6	50 Lbs		10" TPS		250 Volt		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	MIN. 22-3

10-3-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Deran H.P. 300 HP Volts: R.P.M.: Serial # C40 7084

Fram Type: Pump: Type Oil Lube:

Date:									
Standing Water	301								
Draw Down	29								
Pumping Level	330								
Lift Above Discharge	106.26								
Total Lift	436								
G.P.M.	1048								
GPM/FT	36.14								
AC Ft. In. 24 Hrs.	4.63								
HP Input RPM	1780	12.7	46 Lbs	Flow meter 1250	10" IPS		.250 wall		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Mann 21-3 East

10-2-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: DeRan H.P.: 300 HP Volts: 11 to 10 Ratio R.P.M.: Serial # B805 149

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	298'								
Draw Down									
Pumping Level									
Lift Above Discharge	Engine 1800 RPM's								
Total Lift									
G.P.M.		868 gal							
GPM/FT									
AC Ft. In. 24 Hrs.									
HP Input RPM	Flow Meter 1634	10.4	42 lbs	Flow Meter 1000 gal		10"	IPS	.250 wall	
KW Input									
KW Hours Per AC/Ft.	180 engine								
BTF									
Cost Per AC/Ft.									

Well: Mun 21-3-W
Meter:
Legal:
Location:

Pump Date Installation Date:
Pump Setting :
Airline :
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

12-11-08

D & Ron

Serial: B710008

Motor: [redacted]
H.P. 400
Volts:
R.P.M.:
Type Oil Lube:
Frame:
Type:
Pump:

Date:									
Standing Water	297'								
Draw Down	86								
Pumping Level	383								
Lift Above Discharge	32								
Total Lift	415	912							
G.P.M.	2117	91							
GPM/FT	24.6								
AC Ft. In. 24 Hrs.	9.33	2.66	14 hrs				10" TPS 250 Wdl		
HP Input RPM	1790								
KW Input									
KW Hours Per AC/Ft.									
IRF									
Cost Per AC/Ft.									

[redacted]

Field Verification on Pump Pad

Well: Parker 281 South
Motor:
Legal:
Location:

12-11-08

Pump Data Installation Date:
Pump Setting:
Airline:
CTAS Size:
Bowls:
Well Depth:
Blank:
Perforations:

Serial: 2908084

Moto: DeRan H.P. 350 Volts: R.P.M.: Type Oil Lube:
Fram: Type: Pump:

Date:									
Standing Water	326'								
Draw Down	20								
Pumping Level	346								
Lift Above Discharge	23								
Total Lift	369								
G.P.M.	1551	1551							
GPM/FT	77.6								
AC Ft. In. 24 Hrs.	6.85	↑							
HP Input RPM	1775	18.8	10	269		10"	LPS	.250	Wall
KW Input									
KW Hours Per AC/Ft.									
EHP									
Cost Per AC/Ft.									

Well: Parker 20-3-W
Meter:
Length:
Location:

12-11-08

Pump Data Installation Date:
Pump Setting:
Airline:
GT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Motor: DeRaus H.P. 300 Volts: R.P.M.: Serial C304165
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water									
Draw Down	Not full								
Pumping Level									
Lift Above Discharge	32								
Total Lift									
G.P.M.	1196	1090							
GPM/FT.									
AC Ft. In. 24 Hrs.									
HP Input RPM	1793	1207	26 Lbs		10" IPS	.250 Wall.			
KW Input									
KW Hours Per AC/Ft.	1293	1405	14 Lbs						
BFF									
Cost Per AC/Ft.			1196						

This well need to be repaired

Well:	
Meter:	
Legal:	
Location:	Pardee 20-3 Middle 10-1-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Doran H.P. 300 Volts: R.P.M.: Serial # B903114

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	316'								
Draw Down	30'								
Pumping Level	346'								
Lift Above Discharge	99.3								
Total Lift	445.3								
G.P.M.	1098								
GPM/FT	36.6		1098 gal						
AC Ft. In. 24 Hrs.	4.8			1100 meter 1100 gal					
HP Input RPM	1770	13.3	43 LBS		10" IPS		250 wall		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	[illegible] S

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Parker · 20-40

10-23-08

Moto: Dalan H.P. 300 HP Volts: R.P.M.: Serial # 13908081

Fram Type: Pump: Type Oil Lube:

Date:									
Standing Water	Can't get levels								
Draw Down									
Pumping Level									
Lift Above Discharge	36.9								
Total Lift									
G.P.M.	1724	1724 gal							
GPM/FT.									
AC Ft. In. 24 Hrs.	7.62			9 hour run					
HP Input RPM	1800	20.9	16 lbs	1800	10" TPS	250 Volts			
KW Input									
KW Hours Per AC/Ft.									
BHP									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Paridee 204 N-E

9-29-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Serial # C407.086

Motor: Deran H.P. 350 Volts: R.P.M.: Type Oil Lube:

Frame: Type: Pump:

Date:									
Standing Water	323'								
Draw Down	49								
Pumping Level	372'								
Lift Above Discharge	161.7								
Total Lift	533.7								
G.P.M.	1477								
GPM/FT	30								
AC Ft. In. 24 Hrs.	5.5	1477 gal.		Flow Meter 1300					
HP Input RPM	1750	17.9	70 LBS		10" IPS	250 Volt			
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well: Forster 28-3
Motor:
Legal:
Location:

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

12-11-08

Serial B912065

Motor: De Ran H.P. 300 H.P Volts: R.P.M.: Type Oil Lube:
Frame: Type: Pump:

Date:									
Standing Water	32.6'								
Draw Down	1.3								
Pumping Level	339'								
Lift Above Discharge	34.7								
Total Lift	373.7								
G.P.M.	1097	1097		3 low 1100 gpm					
GPM/FT	84.4								
AC Ft. In. 24 Hrs.	4.85								
HP Input RPM	177.5	13.3	15 Lbs		10" TPS		25.0 Mdl		
KW Input									
KW Hours Per AC/Ft.									
BHP									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Parcher 30-3

10-1-09

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: DeRan H.P. 75 200 Volts: R.P.M.: Serial # 12212099

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	Cont not Bot levels								
Draw Down									
Pumping Level									
Lift Above Discharge									
Total Lift									
G.P.M.		825 gal							
GPM/FT									
AC Ft. In. 24 Hrs.				Flow Meter 600 gal					
HP Input RPM	1600	10.0	45 Lbs		10" LPS 250 Well				
KW Input									
KW Hours Per AC/Ft.									
BFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Pardee 28-1 N

10-2-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Derun H.P. 350 Volts: R.P.M.: Serial # B910027

Fram: Type: Pump: Type Oil Lube:

Date:									
Standing Water	332'								
Draw Down	19'								
Pumping Level	351'								
Lift Above Discharge	32.34								
Total Lift	383.34								
G.P.M.	~~1642~~	1642	1642 gal						
GPM/FT	86.4								
AC Ft. In. 24 Hrs.	6	33							
HP Input RPM	1780	19.9	14 LBS	Flow meter 1900 gal	10" FPS	250 wall			
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well: Plant
Motor:
Legal:
Location:

Pump Data Installation Date:
Pump Setting:
Airline:
CTAS Size:
Bowls:
Well Depth:
Blank:
Perforations:

Motor: Dollar H.P. 300 HP Volts: R.P.M.: Serial C112039
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	312								
Draw Down	13								
Pumping Level	325								
Lift Above Discharge	69								
Total Lift	344	8" load							
G.P.M.	875				low Mtr				
GPM/FT.	67.3								
AC Ft. In. 24 Hrs.	3.9				900				
HP Input RPM	1650	10.6	30	25			10" LPS 250 Wall		
KW Input									
KW Hours Per AC/Ft.									
KHF									
Cost Per AC/Ft.									

at 1780 Pump air
1680 - " " Well is old
1550 - OK
This is not a good test at 1680
at 1500 - 1650 - OK

Well: Rowan 2-6
Motor:
Legal:
Location:

11-13-08

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

BF25A-7320 BEN

Motor: Emerson H.P. 150 H.P Volts: 480 R.P.M.: 1785 Serial #: H0150V25
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	249'								
Draw Down	70'								
Pumping Level	319'								
Lift Above Discharge	46.2								
Total Lift	365.2								
G.P.M.	849	849 gal							
GPM/FT	12.13								
AC Ft. In. 24 Hrs.	3.75								
HP Input RPM	1785	10.3	20 Lbs	10" LPS 250 Mall					
KW Input	112								
KW Hours Per AC/Ft.	716.8								
HHF	-								
Cost Per AC/Ft.	89.6								

Well:	
Meter:	
Legal:	
Location:	Rowan 2-2-N

7-23-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Emerson H.P. 125 Volts: R.P.M.: Serial #:

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	256'								
Draw Down	32								
Pumping Level	288'								
Lift Above Discharge	152.5								
Total Lift	440.5								
G.P.M.	577								
GPM/FT	13								
AC Ft. In. 24 Hrs.	2.5	577 gal 4		Flow Meter broke					
HP Input RPM	1800	2.0	66.68	10" FIS	1250 wall				
KW Input	93								
KW Hours Per AC/Ft.	892.8								
EFF	-								
Cost Per AC/Ft.	111.6								

Well: Bowen 2-4
Motor:
Legal:
Location:

Pump Data Installation Date:
Pump Setting:
Airline:
CTAS Size:
Bowls:
Well Depth:
Blank:
Perforations:

12-8-08

Motor: Emerson H.P. 250 HP Volts: 480V R.P.M.: 1780 Serial: 11250 V25LH
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water									
Draw Down	Good Pump Levels								
Pumping Level									
Lift Above Discharge	35'								
Total Lift									
G.P.M.	1023	1035 gpm							
GPM/FT.									
AC Ft. In. 24 Hrs.	4.5	↑		Flow Meter Broke					
HP Input RPM	1780	12.42	15.2 kw			10" LPS 250 Well			
KW Input	186.5								
KW Hours Per AC/Ft.	994.7								
H/F									
Cost Per AC/Ft.	124.33								

Well:	
Meter:	
Legal:	
Location:	2-1 Rowan

7-24-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Emerson H.P. 125 Volts: 460 R.P.M.: 1800 Serial #: L 11BF71H

Fram: Type: Pump: Type Oil Lube:

Date:									
Standing Water	Can't get								
Draw Down	Levels								
Pumping Level									
Lift Above Discharge	138.6								
Total Lift									
G.P.M.	988								
GPM/FT									
AC Ft. In. 24 Hrs.	4.37	988 gal.		Flow meter 900 gal					
HP Input RPM	1800	18.5	60 Lbs	8" Tbs	250				
KW Input	93								
KW Hours Per AC/Ft.	510.75								
EFF									
Cost Per AC/Ft.	63.84								

Well: SHP 35-1
Meter:
Legal:
Location:

12-8-08

Pump Data Installation Date:
Pump Setting:
Airline:
GT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Motor: Emerson H.P. 125 HP Volts: 460 V R.P.M.: 1785 Serial: 110125 y2.522
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	169'								
Draw Down	42								
Pumping Level	211'								
Lift Above Discharge	139	618 gal.							
Total Lift	350								
G.P.M.	618								
GPM/FT.	14.74								
AC Ft. In. 24 Hrs.	2.74 ~~1.36~~	7.5	60 2.5		10" IPS 2.50 Wall				
HP Input RPM	1785								
KW Input	93.25								
KW Hours Per AC/Ft.	816.8								
HIF									
Cost Per AC/Ft.	102								

Well: SWP 283
Meter:
Legal:
Location: MOT 00069

1-7-09

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Hours:
Well Depth:
Blank:
Perforations:

Moto: Emerson H.P. 250 HP Volts: 460 R.P.M.: 1780 Serial:
Frame: Type: Pump: Type Oil Lube:
Swidn 7[illegible]2.116-04R-07

Date:									
Standing Water									
Draw Down									
Pumping Level									
Lift Above Discharge	207.9								
Total Lift			13.63 gal						
G.P.M.	1353					1302 gal			
GPM/FT									
AC Ft. In. 24 Hrs.	6.0			flow meter		10" TPS	.280	Wall	
HP Input RPM	1280	16.4	90 lbs						
KW Input	186.5								
KW Hours Per AC/Ft.	746								
H/F									
Cost Per AC/Ft.	93.25								

313 amp
motor Rated amp 283 amp

Well: SWP 30-4-3
Meter:
Legal:
Location:

Pump Data Installation Date:
Pump Setting:
Airline:
Grade Size:
Bowls:
Well Depth:
Blank:
Perforations:

12-10-08

Motor: Emerson H.P. 125 Volts: R.P.M.: 1785 Serial: H025V285L2
Frame: Type: Pump: Type Oil Lube: 6212-3

Date:									
Standing Water									
Draw Down									
Pumping Level									
Lift Above Discharge	69								
Total Lift									
G.P.M.	500								
GPM/FT									
AC Ft. In. 24 Hrs.	2.2	412 gpm							
HP Input RPM	1785	5.0	30 205	10" IPS	250	Well.			
KW Input	93								
KW Hours Per AC/Ft.	1014								
BHP	-								
Cost Per AC/Ft.	126.8								

Well:	
Meter:	
Legal:	
Location:	

Testo

10-23-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Johnson H.P. 426 HP. Volts: R.P.M.: Serial # 168504

Fram: Type: Pump: Type Oil Lube:

Date:									
Standing Water	273'								
Draw Down	44								
Pumping Level	317'								
Lift Above Discharge	23.1								
Total Lift	~~2298~~	34.1 98							
G.P.M.	2298	98							
GPM/FT	52.2								
AC Ft. In. 24 Hrs.	10.15			21-00-2220					
HP Input RPM	1800	19.5	10 2.65		12" TPS 250 Well				
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:
Meter:
Legal:
Location: Bushniel 10-3
9-30-08

Pump Data Installation Date:
Pump Setting :
Airline :
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Serial # B8 10090

Moto: Deran H.P. G 200B Volts: R.P.M.: Type Oil Lube:
Fram: Type: Pump:

Date:									
Standing Water	Can Not get Levels								
Draw Down									
Pumping Level									
Lift Above Discharge	87.78								
Total Lift									
G.P.M.	1204								
GPM/FT									
AC Ft. In. 24 Hrs.	5.32	1204 gal							
HP Input RPM	1800	14.6	38'	10" IRS	250 walk				
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Bushniel 10-4

9-30-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Johnson H.P. 425 HP Volts: R.P.M.: Serial # 168500

Fram: Type: Pump: Type Oil Lube:

Date:									
Standing Water	300'								
Draw Down	21'								
Pumping Level	321'								
Lift Above Discharge	64.68								
Total Lift	385.7								
G.P.M.	2260								
GPM/FT	107.6	2260 gal			Flow Meter 2200 gal				
AC Ft. In. 24 Hrs.	10								
HP Input RPM	1775	27.4	28 LBS		10" TPS	.250 wall			
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Hawiian - West

9-30-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Johnson H.P. 500 Volts: R.P.M.: Serial # 16,5595

Pram: Type: Pump: Type Oil Lube:

Date:									
Standing Water	338'								
Draw Down	24								
Pumping Level	362								
Lift Above Discharge	101.64 ~~362~~								
Total Lift	463.64								
G.P.M.	1800								
GPM/FT	75								
AC Ft. In. 24 Hrs.	7.79	1628 gal		Flow meter 1800					
HP Input RPM	1760	91 19.2	44 Lbs		10" FP	.250 wall			
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Pardee 20-4 East

9-29-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Johnson H.P. 350 Volts: R.P.M.: Serial # 166047

Fram Type: Pump: Type Oil Lube:

Date:									
Standing Water	329'								
Draw Down	78'								
Pumping Level	407'								
Lift Above Discharge	92.4								
Total Lift	499.4								
G.P.M.	1031								
GPM/FT	13.2								
AC Ft. In. 24 Hrs.	4.6			Flow meter 1050900					
HP Input RPM	1800	12.5	40 Lbs		10" ERS, 250 Walk				
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:
Meter:
Legal:
Location: Pardee 20-3-8-E

Pump Data Installation Date:
Pump Setting :
Airline :
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Serial # 166048

Moto: Johnson H.P. 350 Volts: R.P.M.: Type Oil Lube:
Fram: Type: Pump:

Date:									
Standing Water	60 LBS	323							
Draw Down	22	51							
Pumping Level	38 LBS	374							
Lift Above Discharge	36.96	36.9							
Total Lift		410.9							
G.P.M.		2162							
GPM/FT	42.4								
AC Ft. In. 24 Hrs.	9.5	2162 gpm		Flow meter 1800					
HP Input RPM	1775	26.2	16 lbs		10" TDS, 250 Volt				
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well: Anderson North
Meter:
Legal:
Location:

12-9-08

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Motor: Johnson H.P. 250 Volts: R.P.M.: Serial 167394
Frame: Type: Pump: Type Oil Lube:

Date:	12-9								
Standing Water	~~250'~~								
Draw Down	59'								
Pumping Level	183'								
Lift Above Discharge	71.6								
Total Lift	254.6								
G.P.M.	2200	~~[illegible]~~ legal							
GPM/FT.	44.9			Flow meter 2200 gpm					
AC Ft. In. 24 Hrs.	9.7								
HP Input RPM	1800	~~[illegible]~~ 250	31 Lbs		10" IPS	.250 wall			
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well: Anderson South
Meter:
Legal:
Location:

12-9-08

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

Moto: Johnson H.P. 350 Volts: R.P.M.: Serial 169342
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	133'								
Draw Down	63								
Pumping Level	196'								
Lift Above Discharge	115								
Total Lift	311								
G.P.M.	1980	1980							
GPM/FT.	31.43								
AC Ft. In. 24 Hrs.	8.75				1100				
HP Input RPM	17.87	24.0	50#			10" LPS	250 gall.		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

2

Well:	
Meter:	
Legal:	
Location:	Back 40

9-26-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Deran. H.P. 300 Volts: R.P.M.: Serial # B609034

Fram Type: Pump: Type Oil Lube:

Date:									
Standing Water	172'								
Draw Down	20'								
Pumping Level	192'								
Lift Above Discharge	87.8								
Total Lift	279.8								
G.P.M.	1527								
GPM/FT	76.3								
AC Ft. In. 24 Hrs.	6.75	1526 gal		Flow meter 1750					
HP Input RPM	1770	18.5	38 Lbs		10" IPS		250	well	
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Big Field West 9-26-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Motor: Johnson H.P. 500 Volts: R.P.M.: Serial #: 166011

Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	168'								
Draw Down	34'								
Pumping Level	202'								
Lift Above Discharge	115.5								
Total Lift	317.5								
G.P.M.	1510								
GPM/FT	44.4								
AC Ft. In. 24 Hrs.	6.67	1860 gal		Flow meter 1500 gal					
HP Input RPM	1775	183	50 Lbs	10" IRS	250 watt				
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									

Well: Big Field South
Meter:
Legal:
Location:

Pump Data Installation Date:
Pump Setting:
Airline:
CT&S Size:
Bowls:
Well Depth:
Blank:
Perforations:

12-9-08

Motor: Johnson H.P. 600 Volts: R.P.M.: Serial 160010
Frame: Type: Pump: Type Oil Lube:

Date:									
Standing Water	114								
Draw Down	121								
Pumping Level	235								
Lift Above Discharge	134								
Total Lift	369								
G.P.M.	2269	2269 gpm							
GPM/FT	18.75								
AC Ft. In. 24 Hrs.	18.75								
HP Input RPM	1785	27.5	58 lbs	2300	10"	TPS	250		
KW Input									
KW Hours Per AC/Ft.									
BFF									
Cost Per AC/Ft.									

Well:	
Meter:	
Legal:	
Location:	Brown east 9-22-08

Pump Data Installation Date:	
Pump Setting :	
Airline :	
CT&S Size:	
Bowls:	
Well Depth:	
Blank:	
Perforations:	

Moto: Deran H.P. 300 Volts: R.P.M.: Serial # G201046

Fram: Type: Pump: Type Oil Lube:

Date:									
Standing Water	128'								
Draw Down	103'								
Pumping Level	231'								
Lift Above Discharge	143.22								
Total Lift	374.22								
G.P.M.	957								
GPM/FT	9.3								
AC Ft. In. 24 Hrs.	4.2	957 gal		Flow meter 900					
HP Input RPM	1780	14.9	62 LB		10" TPS		.250 Wall		
KW Input									
KW Hours Per AC/Ft.									
EFF									
Cost Per AC/Ft.									