

From: [Rauhut, Manuel](#)
To: [Judd, Debbi](#)
Cc: [Bates, Luke](#)
Subject: RE: Permit 95-16962 Hayden Lake Irrigation District
Date: Wednesday, November 18, 2020 8:10:42 AM
Attachments: [RE Hayden Lake Irrigation District permit 95-16962.msg](#)

Hi Debbi –

I apologize that this one has had a bit of miscommunication. I did not write a memo confirming that the information provided by Mr. Rose meets the requirements of the conditions on the permit. Please add this email to the file to confirm that the conditions have been met. I think Luke is completing the licensing exam.

Please also add the attached email (which also includes attached emails) to the file as well.

Please let me know if you have any questions.

Thanks,

Manuel

From: Judd, Debbi
Sent: Tuesday, November 17, 2020 12:42 PM
To: Rauhut, Manuel <Manuel.Rauhut@idwr.idaho.gov>
Subject: Permit 95-16962 Hayden Lake Irrigation District

Hi Manuel,

I am trying to gather all information regarding the proof from Hayden Lake Irrigation so the permit can be reinstated. I seem to recall a conversation about your writing a memo on the review, if I'm in error I apologize. If you did write a memo, could you forward that to me? Also, I will need all the communication emails, etc. between you and them for the file to show how they complied with the conditions. I appreciate whatever help you can provide!

Thanks,
Debbi

Debbi Judd
Technical Records Specialist
debbi.judd@idwr.idaho.gov

Idaho Department of Water Resources
322 E Front St
PO Box 83720
Boise, ID 83720-0098
208-287-4920
www.idwr.idaho.gov

Judd, Debbi

From: Rauhut, Manuel
Sent: Thursday, November 12, 2020 10:56 AM
To: Bates, Luke
Subject: RE: Hayden Lake Irrigation District permit 95-16962
Attachments: RE: IDWR Correspondence; RE: IDWR Correspondence

Hi Luke –

Thanks for circling around to that.

Mr. Rose provided an email with two spreadsheets. The permit was already lapsed earlier in the year. Now that we have all the information I think you can proceed with licensing and reinstating the permit.

Please let me know if you have any questions.

Thanks,
Manuel

From: Bates, Luke
Sent: Thursday, November 12, 2020 10:20 AM
To: Rauhut, Manuel <Manuel.Rauhut@idwr.idaho.gov>
Subject: Hayden Lake Irrigation District permit 95-16962

Good morning Manuel.

Back in August Mr. Brandon Rose, you, and myself were exchanging correspondence regarding additional information needed in order for the applicant's beneficial use Statement of Completion for right 95-16962 to be considered satisfactory for filing.

I thought Mr. Rose had provided that information at that time. I checked the backfile today, and note the Proof of beneficial use Returned... is the last profiled data we have for it. Question, what steps do we need to complete in order to get this permit current and proof of B.U. on file?

Thank you for your consideration of this request,
Luke Bates

Water Resource Agent
Idaho Dept. of Water Resources
Northern Regional Office
P: (208) 762-2800
F: (208) 762-2819
Luke.bates@idwr.idaho.gov

Judd, Debbi

From: Bates, Luke
Sent: Friday, August 14, 2020 10:55 AM
To: Rauhut, Manuel
Subject: RE: IDWR Correspondence

Good morning Manuel,

Thank you for the update.

v/r,
Luke

From: Rauhut, Manuel
Sent: Friday, August 14, 2020 9:36 AM
To: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Subject: RE: IDWR Correspondence

Luke –

Between the spreadsheets provided and the information Branden provided me over the phone, the condition 6 requirements are met.

Please let me know if you have any questions.

Thanks,
Manuel

From: Branden Rose [<mailto:branden@haydenirrigation.com>]
Sent: Wednesday, July 01, 2020 4:08 PM
To: Rauhut, Manuel <Manuel.Rauhut@idwr.idaho.gov>
Cc: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Subject: RE: IDWR Correspondence

Manuel,

Thank you for taking to explain your questions I have attached my well logs for all wells for 2019 and 2020. I do want to iterate the last two springs have been extremely wet, so water usage is down. Let me know if you have questions.

Thank you,
Branden Rose
Branden Rose
Administrator
Hayden Lake Irrigation District
208-772-2612 Office
208-518-8175 Cell

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Tuesday, June 30, 2020 1:48 PM
To: Branden Rose <branden@haydenirrigation.com>
Subject: RE: IDWR Correspondence

Branden - I agree, not sure why they sent that. I recommend a phone call to Debbi Judd to gain clarity on her thoughts. Regardless, we will collect data in conjunction to save you a repeat F.E. down the road.

See you on the 7th

v/r,

Luke Bates
Water Resource Agent
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P: (208) 762-2800
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From: Branden Rose [<mailto:branden@haydenirrigation.com>]
Sent: Tuesday, June 30, 2020 1:44 PM
To: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Subject: RE: IDWR Correspondence

Thank you, Luke

Yes, I'm not sure why this is not sufficient the information all my wells are metered, and the information provided is documented from a licensed engineer firm. Also, the district documents 365 days a year daily usage including flow rates the information is not made up. See you next Tuesday.

Thank you,
Branden Rose
Branden Rose
Administrator
Hayden Lake Irrigation District
208-772-2612 Office
208-518-8175 Cell

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Tuesday, June 30, 2020 8:16 AM
To: Branden Rose <branden@haydenirrigation.com>
Subject: IDWR Correspondence

Branden,

Attached as requested – the first page is their response to the Statement of Completion Form submitted to IDWR.

v/r,

Luke Bates
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Attachments: MOR FY_19.xlsx; MOR FY_2020.xlsx

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Water Resource Agent
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Site	Flow		Manner	Water temperature			
	GPD	HPS		W1	W2	W3	W4
808,320	11	11	Partly Cloudy				
810,300	11	11	Overcast				
5,100	48	48	Rain				
728,100	125	125	Cloudy				
320,150	87	87	Partly Cloudy				
620,800	109	109	Cloudy				
227,100	39	39	Overcast				
486,620	81	81	Cloudy				
136,520	81	81	Cloudy				
109,620	91	91	Cloudy				
41,000	7	7	Cloudy				
91,960	84	84	Partly Cloudy				
528,200	65	65	Partly Cloudy				
712,000	114	114	Cloudy				
428,500	83	83	Cloudy				
175,920	98	98	Cloudy				
344,720	58	58	Snow				
548,820	91	91	Cloudy				
812,820	188	188	Cloudy				
483,800	3	3	Cloudy				
564,200	81	81	Cloudy				
158,000	38	38	Overcast				
802,800	75	75	Partly Cloudy				
573,800	95	95	Overcast				
289,420	60	60	Cloudy				
437,180	8	8	Snow				
100,100	10	10	Fog				
473,260	78	78	Partly Cloudy				
653,400	75	75	Clear				
118,100	87	87	Cloudy				
369,320	87	87	Partly Cloudy				

Final report		Weather		Water temperature			
	GPS	HPD		W1	W2	W3	W4
	380,200	6.5	Partly Cloudy				
	495,800	11	Clear				
	575,900	12.4	Clear				
	0	7.1					
	324,300	0	Clear				
	458,600	8.9	Overcast				
	494,300	8.5	Clear				
	560,400	7	Cloudy				
	1,269,400	10.1	Partly Cloudy				
	179,200	2	Clear				
	592,300	6	Clear				
	576,000	8.1	Snow				
	487,500	5	Snow				
	710,000	7.5	Partly Cloudy				
	502,000	5.2	Cloudy				
	594,000	6.1	Partly Cloudy				
	676,000	7	Clear				
	711,000	7.6	Clear				
	395,100	3.6	Clear				
	658,000	6.8	Clear				
	490,400	6.7	Clear				
	626,300	6.4	Clear				
	829,500	6.4	Clear				
	734,000	7.6	Lis Rain				
	334,200	3.6	Clear				
	698,700	7	Partly Cloudy				
	408,200	4.1	Partly Cloudy				
	607,000	5.2	Cloudy				
	803,000	6	Overcast				
	505,000	7.8	Partly Cloudy				
	726,000	7.2	Lis Rain				

Set Points	Time Elapsed	Pressure (psi/psid)
Load Wt #	0.0	
Lag Wt #		
Wt #		

5.942 Total Production/Meters
4.418 56 Total Usage/Meters

System Status

label	prelude: master		
	begin	readings	end
C:accr	C	C	
C2	10609100	10609100	
C3	7536000	7546700	
C:ans	2993700	2993700	
O1	2993700	2993700	
C6	C	C	

Field reports		Water temperature			
OTC	Weather	W1	W2	W3	W4
233.00	2.3	Overcast			
866.08	8	Clear			
650.00	5.1	Rain			
630.00	9.4	Cloudy			
361.00	0.7	Rain			
618.00	6.4	Cloudy			
636.00	6.5	Rain			
775.004	7.7	Light Rain			
676.025	7.2	Rain			
655.00	9.2	Windy/Cloudy			
625.00	9.8	Partly Cloudy			
644.000	6.4	Partly Cloudy			
837.000	11.6	Rain			
486.000	6.6	Wind			
427.000	8.9	Overcast			
537.225	13.9	Partly Cloudy			
604.075	7.8	Overcast			
233.750	11.1	Overcast			
17.489	5.1	Cloudy			
18.618	10	Light Rain			
38.855	9.4	Clear			
112.073	2.6	Clear			
760.000	13.3	Partly Cloudy			
737.000	11.4	Partly Cloudy			
1,012.081	9.8	Clear			
717.024	5.8	Rain			
965.200	22.7	Partly Cloudy			
827.000	18.6	Partly Cloudy			
1,250.000	22.9	Clear			
1,211.000	15	Clear			

16,807,089	307 0	Total
0.5602		avg MGD
	10.5	avg Hr/D
889		avg GPM
389		avg gpm/24 hr day

Summary from SCAQA reports				
Total Water Production	16,807,099		Peak Day (gallons)	1,211,000
per hour	307.0	0.4	Low Day (gallons)	17,489
Average Gallons per minute	91.2		Average Day (gal)	560,232
per 24 hr day	151		Average Day (198) (102)	
Average cfs	2.03		meters	2910
Total Production (ac ft)	51.58		gpmeter	416
Peak day (ac ft)	3.72		Total	17,542
Peak Day (cfs)	1.87		based on peak day gallons average over 1460 minutes	
Water right allocations total	16.04 cfs (instantaneous with irrigation)		3-15 to 11-15	
Production capacity	22.22 cfs (instantaneous year round)		11-15 to 11-15	
	19,159 cfs (based on operational limits of 11,800, 21,360, 31,800, 4,950)			

WV	4	cooling	WV	4	solid	4.629337
					Heats	198076.2
					form	0.4
					g/1000g	611.05
					g/mO	611051.5

5.776 Total Production/A
6.06 Total Library/Memo

Actors: _____

10

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52

106101	0
106102	106103

100

Water right allocations total	22.44 cfs (instantaneous with ingestion) 16.02 cfs (instantaneous year round)	3.15 to 11.15
Production Capacity	16,1595 cfs (based on production on rates of 1-1800, 2-3600, 3-1800, 4-950)	

Wind reports			Water temperature				
	GPD	HPD	Weather	W1	W2	W3	W4
1	2,716,898	42.6	Clear				10.5
2	4,487,558	44.1	Clear				10.5
3	3,204,070	44.1	Partly Cloudy				10.5
4	1,137,740	41.2	Clear			9.2	10.5
5	3,586,046	39.1	Overcast				10.5
6	2,882,148	34.3	Overcast				10.5
7	2,584,367	33.5	Overcast				10.6
8	2,955,135	38.4	Partly Cloudy				10.8
9	3,114,603	38.7	Clear				10.6
10	2,706,829	39.5	Clear			9.2	10.6
11	3,670,440	46.7	Clear				10.6
12	3,665,200	50.5	Clear				10.6
13	3,726,810	47.4	Clear			8.9	10.5
14	3,277,415	44.4	Clear				10.5
15	3,260,481	78.4	Clear				10.5
16	3,575,294	49.5	Cloudy				9.1
17	3,141,893	44.5	Cloudy				9.3
18	4,024,384	56.5	Partly Cloudy				9.3
19	3,520,343	47	Clear				10.5
20	3,252,263	45.4	Light Cloud				10.5
21	2,576,269	34.1	Clear				9.2
22	3,680,294	53.2	Partly Cloudy			9.2	10.5
23	3,767,718	37.5	Overcast				10.5
24	2,755,381	38.5	Overcast				10.6
25	3,267,207	43.4	Clear				10.5
26	3,371,632	48.9	Partly Cloudy				10.5
27	6,121,438	48.4	Rain				10.5
28	4,249,546	57.1	Clear				10.5
29	3,445,342	49.2	Clear			9.4	10.6
30	4,327,729	57.6	Partly Cloudy				10.5

*00,940,695	*329 0	Total
3 3647		avg MGD
	44 4	avg hr/D
1264		avg GPM
2337		avg gpm/24 hr day

Summary from SCADA reports					
Total Water Production	100,940,695		Peak Day (gallons)	6,104,451	
Total Hours run time	1329.0	1.6	Low Day (gallons)	2,902,800	
Average Gallons per minute	1756		Average Day (gals)	3,369,950	
per 24 hr day	2453		Average Day (hrs)	64.3	
Average cfs	2.82		meters	3168	peak
Total Production (ac ft)	369.77		gpmeter	1928	avg
Peak cfs (ac ft)	18.75		Total Usage	97,245	
Peak Day (cfs)	9.45		based on peak day total gallons averaged over 1440 minutes		
Water right capacities have 12 24 cfs (instantaneous with irrigation) 16 02 cfs (instantaneous year) 18 55 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)					

Well 4 coating		Wt used	24.598
readings		Hours	575.2
begin		gpm	0.7
end		p/1000g	0.36
Wt	55289.7	gmg	363.6
hrs	22401.7		
(1) wt	88240	Wt used	0

Average temp	60	based on AEC statements
Precipitation (in)		based on Cliff Harris

	prelude meter	
	begin	end
Loc9	0	0
C1	106040	12080
	usage	14.39
C3	15000	7580
	usage	75.49
C4	28740	28872
	usage	29.06
C1	28832	32280
	usage	28.60
C6	0	0
	usage	0

		Daily readings from field reports																							
Date 31 Jul	Location	Well 1 (Lacey)				Well 2 (Lacey 600 ft)				Well 3 (Lacey 500 ft)				Well 4 (Lacey)				Well 5 (Lacey)				Well 6 (Lacey)			
		flow meter	gallons	per	hours	flow meter	gallons	per	hours	flow meter	gallons	per	hours	flow meter	gallons	per	hours	flow meter	gallons	per	hours	flow meter	gallons	per	hours
1	794733	463,000	36238.7	5.8	1	4133203	85,000	4054.5	0.4	1	8452472	1,598,000	36172.2	26.8	2	277886	2,502,000	58465.5	25.2	0	437656	708	6178.9	7.9	3
2	794736	343,000	36243.4	4.7	1	4133203	0	4054.5	0	0	8452484	1,207,200	36190.6	18.4	2	275016	2,130,000	58487	21.5	0	438161	502	6163.7	9.2	2
3	794740	334,000	36247.5	4.1	1	4133203	0	4054.5	0	0	8477138	1,215,400	36210.3	19.7	3	277732	2,716,000	58514.2	27.2	0	438767	626	6190.4	6.7	3
4	795619	449,000	36254	6.5	3	4133203	0	4054.5	0	0	8488669	1,153,100	36228.4	18.1	2	279888	2,156,000	58536.1	21.9	2	439209	422	6194.5	4.1	2
5	796257	338,000	36258.2	4.2	1	4133203	0	4054.5	0	0	8499994	1,132,300	36246	17.6	1	281962	1,874,000	58554	19.3	1	439635	426	6198.7	4.2	3
6	796545	388,000	36262.3	4.1	1	4133203	0	4054.5	0	0	8514917	1,452,300	36269.1	25.1	3	284169	2,907,000	58582.2	25.8	0	440256	421	6203	4.3	2
7	796507	362,000	36267.1	4.8	1	4133203	0	4054.5	0	0	8522772	825,500	36281.6	12.5	0	286619	2,050,000	58604.9	19.7	0	440480	424	6207.2	4.2	2
8	797222	225,000	36270.9	3.8	1	4135197	199,400	4055.4	0.9	2	8536995	1,418,300	36301.6	20	4	286810	2,991,000	58633.8	28.9	0	440830	350	6210.9	3.7	2
9	797548	446,000	36276.9	6	1	4135197	0	4055.4	0	0	8549134	1,217,300	36319.9	18.3	0	291624	1,814,000	58651.3	17.5	0	441237	407	6214.8	3.9	2
10	798225	377,000	36282	5.1	1	4137372	217,500	4056.5	1.1	1	8560125	1,065,100	36336.5	16.6	2	294954	3,070,000	58631.9	19.4	0	441824	587	6221.7	6.9	3
11	798355	330,000	36286.4	4.4	1	4139152	178,000	4057.3	0.8	1	8578425	1,630,000	36362.8	26.3	4	297205	2,512,000	58708.8	74.9	0	442302	478	6227.2	5.9	3
12	798730	375,000	36291.5	5.1	1	4141710	235,800	4058.5	1.2	1	8586651	1,226,600	36381.1	18.3	0	306800	1,694,000	58722.5	15.7	0	442882	580	6233.7	6.5	3
13	799335	605,000	36299.5	8	2	4141710	0	4058.5	0	0	8610665	2,197,400	36416.3	35.2	2	302836	3,636,000	58762.8	40	0	443378	696	6241.1	7.4	3
14	799713	378,000	36304.4	4.9	2	4143365	167,500	4059.2	0.7	1	8618079	541,400	36423.7	7.4	0	303579	743,000	58769.2	6.7	0	443954	376	6244.8	3.7	2
15	800412	699,000	36312.9	8.5	2	4145341	195,500	4060.1	0.9	1	8635337	1,825,800	36450.8	27.1	1	316421	2,842,000	58797.2	26	0	444245	291	6248	3.2	2
16	800778	366,000	36317.1	4.2	1	4145341	0	4060.1	0	0	8645412	1,037,500	36460.1	14.3	3	308726	2,308,000	58830.8	23.8	2	444601	356	6251.8	3.8	2
17	801284	506,000	36322.6	5.5	3	4145897	35,800	4060.4	0.3	1	8658914	1,150,200	36480.8	15.7	3	310554	1,825,000	58836.8	17.8	1	444964	383	6255.8	3.8	2
18	801841	357,000	36326.8	4.2	1	4145897	0	4060.4	0	0	8667806	1,089,200	36496.7	15.9	1	313133	2,581,000	58863.4	26.8	1	445236	252	6259	3.4	1
19	802486	652,000	36336.2	9.4	2	4145897	0	4060.4	0	0	8680726	1,292,000	36513.8	16.9	1	315447	2,112,000	58881.1	22.7	0	445726	480	6263	4	1
20	803033	537,000	36342.6	6.4	3	4145854	15,700	4060.5	0.1	2	8684645	1,391,800	36531.3	17.7	1	317819	2,372,000	58910.8	22.7	0	446087	361	6266.9	3.9	1
21	803890	857,000	36353.2	10.6	2	4145991	13,700	4060.7	0.2	2	8711855	1,721,000	36555.4	24.1	1	320334	2,515,000	58936	25.2	0	446612	525	6272.7	5.6	4
22	804380	0	36352.2	0	0	4146297	230,500	4061.7	1	1	8727235	1,538,000	36579.9	20.5	0	322340	2,936,000	58964.8	28.8	0	446995	383	6277.1	4.4	4
23	804570	680,000	36361.4	9.2	2	4146297	0	4061.7	0	0	8743157	1,592,200	36598	22.1	3	322566	2,025,000	58984	19.5	0	447437	442	6281.9	4.8	3
24	805123	553,000	36368.1	6.7	3	4146297	0	4061.7	0	0	8755503	1,234,600	36614.4	16.4	0	327828	2,563,000	59006.9	25.5	0	447914	477	6287.1	5.2	2
25	805503	380,000	36372.3	4.2	1	4150608	231,100	4062.9	1.2	2	8767859	1,275,800	36631.7	17.3	2	330086	2,240,000	59032.4	22.5	0	448060	146	6299	1.9	2
26	806075	572,000	36378.7	6.4	2	4153521	291,300	4064.2	1.3	1	8782010	1,415,100	36648	17.5	0	330212	2,244,000	59053.8	21.4	0	448345	285	6292.1	3.1	1
27	806806	731,000	36387.7	9	2	4153634	11,300	4064.3	0.1	1	8805636	2,367,800	36681.6	32.6	4	336067	3,755,000	59091.7	37.9	0	448775	430	6296.7	4.6	2
28	807255	489,000	36393	5.3	1	4156042	240,600	4065.4	1.1	1	8815173	953,500	36693.6	12	0	338468	2,432,000	59116.2	24.5	0	449013	236	6299.2	2.5	1
29	808058	601,000	36402.7	9.7	2	4158968	232,600	4066.7	1.3	1	8832617	1,754,400	36718.6	25	0	339772	1,380,000	59138.3	15	0	449307	294	6302.6	3.4	3
30	808632	736,000	36411.6	9.1	2	4181179	221,100	4067.7	1	1	8851082	1,826,500	36744.7	26.1	2	342576	2,804,000	59156.9	27.3	0	449563	258	6305.6	3	2
31	809550	718,000	36420.8	8.8	6	4191370	19,100	4067.9	0.2	2	8863212	1,153,200	36760	15.3	3	344866	2,310,000	59178.7	22.8	2	449506	845	6313.4	7.8	3
total	0	15,250,000	187.7	33	2	2,681,700	3480	13.8	73	42,753,255	114.6	30	74,552,000	1662	1	9,961	1	162	7.8	0	0	0	0	0	0

Summary from SCADA reports										Average meter precipitation (in)										based on KUC statements based on Giff Plains									
135,368,955										Peak Day (gallons)										6,860,530									
Total Water Production										Low Day (gallons)										1,630,276									
Total hours run time										Average Day (gal)										4,365,740									
Average Gallons per minute										Average Day (hrs)										54.6									
per 24 hr day																													
3872																													
Average cfs										2.96																			
Total Production (ac ft)										415.43																			
Peak Day (ac ft)										21.05																			
Peak Day (cfs)										10.62																			
based on peak day gallons averaged over 1440 minutes																													
Water right allocations total										22.44 cfs (instantaneous with irrigation)										3-15 to 11-15									
										16.02 cfs (instantaneous year round)																			
Production Capacity										18-1595 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)																			

Date		Location		Daily readings from field reports												Notes		
				Well 1 (LARRY)				Well 2 (CLOVER 300 ft)				Well 3 (CLOVER 300 ft)					Well 4 (LARRY)	
		flow meter	gallons	psi	hours	flow meter	gallons	psi	hours	flow meter	gallons	psi	hours	flow meter	gallons	psi	hours	
1	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
2	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
3	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
4	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
5	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
6	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
7	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
8	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
9	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
10	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
11	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
12	820994	0	36574.3	0	0	4183542	100	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
13	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
14	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
15	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
16	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
17	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
18	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
19	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
20	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
21	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
22	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
23	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
24	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
25	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
26	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
27	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
28	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
29	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
30	820994	0	36574.3	0	0	4183542	0	4079.1	0	9032349	0	37047	0	450808	0	80678.2	0	470579
total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Notes

Flow meters: B&B meter only. All employees use to draw flow meters. Data was submitted the night of the previous day. B&B meter obtained using the pump out line position: 300

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Summary from SCADA reports												Summary from SCADA reports											
Total Water Production				Peak Day (gallons)				Low Day (gallons)				Total Production (ac ft)				Peak Day (ac ft)				Peak Day (cfs)			
16,745,100				1,156,000				0				51.39				2.55				1.79			
Total Hours run time				Average Day (gall)				Average Day (hrs)				Total Usage				Peak Day (cfs)				Peak Day (cfs)			
368.6				558,170				12.3				2,387				1.79				1.79			
Average Gallons per minute				Average Day (gpm)				Average Day (hrs)				Total Usage				Peak Day (cfs)				Peak Day (cfs)			
188				12.3				12.3				2,387				1.79				1.79			
Average cfs				meters				peak				avg				188				188			
Total Production (ac ft)				gallons				368				16.02 cfs (instantaneous year round)				188				188			
Peak day (ac ft)				Total Usage				2,387				188				188				188			
Peak Day (cfs)				based on peak day gallons averaged over 1440 minutes				188				188				188				188			
Water right allocations total				22.44 cfs (instantaneous with impound)				3:15 to 11:15				18.02 cfs (instantaneous year round)				188				188			
Production Capacity				18,159 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)				18,159 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)				18,159 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)				18,159 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)				18,159 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)			

Field reports		Weather		Water temperature		W1		W2		W3		W4		W5		W6	
GPD	HPD																
639,000	11.4	Clear															
558,000	12.8	Cloudy															
543,000	12.4	Partly Cloudy															
713,000	16.3	Clear															
0	0	Clear															
1,156,000	26.6	Clear															
440,000	10	Clear															
426,000	10	Partly Cloudy															
704,000	16.3																
446,000	0.4																
763,000	27.2																
398,100	9.3	Clear															
585,000	10.5	Overcast															
559,000	15.5	Partly Cloudy															
401,000	8.7	Cloudy															
526,000	17.8	Light Rain															
417,000	9.2	Overcast															
356,000	7.8	Overcast															
544,000	11.8	Rain															
501,000	11.1	Clear															
477,000	10.4	Partly Cloudy															
523,000	11.4	Cloudy															
689,000	14.8	Cloudy															
511,000	11.5	Clear															
453,000	10	Partly Cloudy															
526,000	11.4	Cloudy															
518,000	11.5	Cloudy / Wind															
509,000	20.5	Clear															
500,000	11	Cloudy															
588,000	13.1	Cloudy															

16,745,100 368.6 Total
0.5882
12.3 avg H2O
756 avg GPM
368 avg gpm/24 hr day

Water right allocations total
22.44 cfs (instantaneous with impound)
18.02 cfs (instantaneous year round)
Production Capacity
18,159 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)

		Daily readings from field reports																							
Date	Location	Well 1 (Barley)						Well 2 (Dakota 600 ft)						Well 3 (Dakota 300 ft)						Well 4 (Barley)					
		flow meter	gallons	per	hour	starts		flow meter	gallons	per	hour	starts		flow meter	gallons	per	hour	starts		flow meter	gallons	per	hour	starts	
1	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
2	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
3	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
4	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
5	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
6	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
7	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
8	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
9	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
10	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
11	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
12	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
13	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
14	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
15	820994	0	36574.3	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
16	820994	0	36574.4	0.1	1	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
17	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
18	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
19	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
20	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
21	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
22	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
23	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
24	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
25	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
26	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
27	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
28	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
29	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
30	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
31	820994	0	36574.4	0	0	4183543		0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0	0	4079.1	0
Total	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notes		Well 1 (Barley)						Well 2 (Dakota 600 ft)						Well 3 (Dakota 300 ft)						Well 4 (Barley)					
Please read the field report. Please read parts to 80 up and over.		Well 1 (Barley)						Well 2 (Dakota 600 ft)						Well 3 (Dakota 300 ft)						Well 4 (Barley)					
Well 1 is to be used to pump going		Well 1 (Barley)						Well 2 (Dakota 600 ft)						Well 3 (Dakota 300 ft)						Well 4 (Barley)					
Before we start meter, we need to change tap		Well 1 (Barley)						Well 2 (Dakota 600 ft)						Well 3 (Dakota 300 ft)						Well 4 (Barley)					
OK plug 10' later, 12:40		Well 1 (Barley)						Well 2 (Dakota 600 ft)						Well 3 (Dakota 300 ft)						Well 4 (Barley)					

Summary from SCADA reports		16/52,335		Peak Day (gallons)		851,000	
Total Water Production		387.1		Low Day (gallons)		135,000	
Total Hours run time		723		Average Day (gal)		541,386	
Average Gallons per minute		201		Average Day (m3)		12.5	
Average cfs		1.61		meters		3768	
Total Production (ac ft)		51.50		gpm		226	
Peak day (ac ft)		2.61		Total Usage		592,745	
Peak Day (cfs)		1.32		based on peak day gallons averaged over 1440 minutes			
Water right allocations total		22.44 cfs (instantaneous with irrigation)		3-15 to 11-15			
		16.02 cfs (instantaneous year round)					
Production Capacity		16,1595 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)					

Field reports	Weather	W1	W2	W3	W4
1	Cloudy				10.6
2	Cloudy				10.6
3	Overcast				10.6
4	Partly Cloudy				10.6
5	Life Rain				10.6
6	Life Rain				10.6
7	Overcast				10.6
8	Partly Cloudy				10.6
9	Partly Cloudy				10.6
10	Partly Cloudy				10.6
11	Cloudy				10.6
12	Cloudy				10.6
13	Life Snow				10.6
14	Life Snow				10.6
15	Cloudy				10.6
16	Cloudy				10.6
17	Cloudy				10.6
18	Partly Cloudy				10.6
19	Overcast				10.6
20	Overcast				10.6
21	Cloudy				10.6
22	Cloudy				10.6
23	Overcast				10.6
24	Cloudy				10.6
25	Overcast				10.6
26	Overcast				10.6
27	Cloudy				10.6
28	Overcast				10.6
29	Overcast				10.6
30	Cloudy				10.6
31	Rain				10.6

16,782,335	387.1	Total:
5,8414		avg MGD
711	12.7	avg M3
376		avg GPM
		avg gpm/24 hr day

Daily readings from field rooms																									
Date	Locales	Well 1 (Lafayette)						Well 2 (Lafayette 500 ft)						Well 3 (Lafayette 300 ft)						Well 4 (Lafayette)					
31-Jan		flow meter	gallons	psi	hours	starts		flow meter	gallons	psi	hours	starts		flow meter	gallons	psi	hours	starts		flow meter	gallons	psi	hours	starts	
1	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
2	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
3	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
4	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
5	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
6	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
7	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
8	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
9	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
10	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
11	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
12	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
13	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
14	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
15	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
16	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
17	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
18	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
19	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
20	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
21	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
22	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
23	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
24	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
25	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
26	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
27	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
28	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
29	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
30	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
31	820994	0	36574.4	0	0	0		4183543	0	4079.1	0	0		8032352	0	37047	0	0		6563	0	1244.2	0	0	
Total		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	
Notes		gpm						gpm						gpm						gpm					
Notes		Notes						Notes						Notes						Notes					
Notes		Notes						Notes						Notes						Notes					

Field reports		Weather	W1	Water temperature		
GPS	HTD			W2	W3	W4
482,000	12.4	Partly Cloudy				
482,000	12.5	Partly Cloudy				10.7
485,000	12	Cloudy				10.5
544,000	14	Cloudy				10.6
596,000	15.4	Cloudy				10.6
735,000	27.8	Cloudy				10.7
487,000	2.6	Cloudy				10.7
503,000	13	Cloudy				10.7
577,000	14.9	Clear				10.7
437,000	11.8	Snow				10.7
505,000	13	Rain/Snow				10.7
546,000	14.1	Snowy				10.6
560,000	14.6	Overcast				10.6
448,000	11.5	Snow				10.6
573,000	14.8	Clear				12
438,000	11.3	Partly Cloudy				10.6
505,000	11.4	Cloudy				10.6
596,000	11.6	Overcast				10.6
556,000	15.1	Partly Cloudy				10.6
398,000	9.4	Partly Cloudy				10.6
78,000	14.2	Rain				10.6
841,000	9.3	Overcast				10.6
510,000	11.6	Rain				10.6
491,000	11.3	Rain				10.6
522,000	12.8	Rain				10.6
583,000	13	Rain				10.6
503,000	13	Cloudy				10.6
503,000	10.5	Rain				10.6
726,000	17.4	Rain				10.6
444,000	10.2	Partly Cloudy				10.6
428,000	9.9	Cloudy				10.7
16,262,000		366.6	Total			
0.5246		avg	MGO			
583		12.8	avg HTD			
364		avg	CPW			
364		avg	CPW 1 hr day			

Summary from SCADA reports

Total Water Production 16,262,000

Total Hours run time 396.6 0.5

Average Gallons per minute per 24 hr day 583

Average cfs 1.52

Total Production (ac ft) 49.81

Peak day (ac ft) 2.89

Peak Day (cfs) 1.46

Water right allocations total 22.44 cfs (instantaneous with irrigation)

Production Capacity 16.02 cfs (instantaneous year round)

18 1595 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-950)

Well #	Well #	Well #	Well #
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

Well #	Well #	Well #	Well #
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

Average term: 33

based on KIC statements

based on CIP plans

Well #	Well #	Well #	Well #
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

Wind		Water temperature			
GPD	Report	W1	W2	W3	W4
869,000	14.2	Windy			
451,000	15.3	Clear			
464,000	12	Partly Cloud			
130,000	9.9	Snow			
1,000	11.1	Lie Snow			
2,000	9	Overcast			
0	11.3	Lie Rain			
1,000	12.6	Partly Cloud			
1,000	9.5	Overcast			
0	7.8	Overcast			
0	10.2	Partly Cloud			
4,000	9.9	Clear			
0	11.9	Cloudy			
0	9.2	Cloudy			
0	9.1	Cloudy			
39,000	11.3	Rain			
0	12.7	Clear			
20,200	11.1	Cloudy			
0	9	Clear			
0	9.9	Clear			
2,000	8.2	Clear			
1,000	12.1	Cloudy			
0	8.3	Windy			
0	8.9	Overcast			
1,000	10.4	Overcast			
2,000	10.7	Overcast			
1,000	11	Clear			
1,000	7.2	Clear			
0	11.1	Clear			
7,770,200	304.8	Total			
0.9610		avg MGD			
	10.4	avg H/0			
58		avg ppm/24 hr			
42		avg ppm/24 hr/day			

		Daily readings from field reports																														
		Well 1 (Lackey)				Well 2 (Lackey 300 ft)				Well 3 (Lackey 300 ft)				Well 4 (Lackey)				Well 5 (Lackey)				Well 6 (Lackey)										
Date	Location	Flow meter	gallons	hours	starts	Flow meter	gallons	hours	starts	Flow meter	gallons	hours	starts	Flow meter	gallons	hours	starts	Flow meter	gallons	hours	starts	Flow meter	gallons	hours	starts							
1	820895	0	36574.4	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501646	0	61860.1	0	470728	0	6563.0	0	115636	660.000	1523.8	12.3	8	1	660.000	12.3	8	1	660.000
2	820895	0	36574.4	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501647	1.000	61860.2	0.1	470728	0	6563.0	0	116028	369.000	1531.2	7.4	9	2	1.000	7.5	9	2	1.000
3	820895	0	36574.4	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501648	2.000	61860.3	0.1	470728	0	6563.0	0	116578	552.000	1541.5	10.3	7	3	2.000	10.4	7	3	2.000
4	821001	6.000	36574.5	0.1	1	4183745	0	4079.2	0	37047	0	9032352	0	501649	0	61860.3	0	470728	0	6563.0	0	117094	506.000	1561	9.5	6	4	6.000	9.6	6	4	6.000
5	821001	0	36574.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501653	4.000	61860.4	0.1	470728	0	6563.0	0	117747	663.000	1563.5	12.5	11	5	4.000	12.6	11	5	4.000
6	821003	2.000	36574.6	0.1	1	4183745	0	4079.2	0	37047	0	9032352	0	501653	0	61860.4	0	470728	0	6563.0	0	118145	336.000	1571	7.5	5	6	2.000	7.6	5	6	2.000
7	821003	0	36574.6	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501653	0	61860.4	0	470728	0	6563.0	0	118670	325.000	1580.9	9.9	8	7	0	9.9	8	7	0
8	821003	0	36574.6	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501653	0	61860.4	0	470728	0	6563.0	0	119398	726.000	1594.6	13.7	9	8	0	13.7	9	8	0
9	821003	0	36574.6	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501653	0	61860.4	0	470728	0	6563.0	0	119763	365.000	1601.4	6.8	5	9	0	6.8	5	9	0
10	821005	2.000	36574.7	0.1	1	4183745	0	4079.2	0	37047	0	9032352	0	501654	1.000	61860.5	0.1	470728	0	6563.0	0	120306	543.000	1611.7	10.3	8	10	3.000	10.5	8	10	3.000
11	821005	0	36574.7	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501654	0	61860.5	0	470728	0	6563.0	0	120967	661.000	1624.2	12.5	10	11	0	12.5	10	11	0
12	821374	369.000	36579.6	4.9	3	4183745	0	4079.2	0	37047	0	9032352	0	501655	1.000	61860.5	0.1	470728	0	6563.0	0	121402	436.000	1632.4	8.2	8	12	3.000	13.1	8	12	3.000
13	821374	0	36579.6	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501656	0	61860.5	0	470728	0	6563.0	0	122183	781.000	1645.4	13	11	13	1.000	13.1	11	13	1.000
14	821432	78.000	36581.1	1.5	4	4183745	0	4079.2	0	37047	0	9032352	0	501656	0	61860.5	0	470728	0	6563.0	0	122570	387.000	1650.6	5.4	8	14	78.000	6.9	8	14	78.000
15	821432	0	36581.1	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501656	0	61860.5	0	470728	0	6563.0	0	123244	674.000	1663.1	12.3	8	15	0	12.3	8	15	0
16	821454	2.000	36581.2	0.1	1	4183745	0	4079.2	0	37047	0	9032352	0	501657	1.000	61860.6	0	470728	0	6563.0	0	123944	550.000	1673.2	10.1	7	16	3.000	10.2	7	16	3.000
17	821454	0	36581.2	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501657	0	61860.6	0	470728	0	6563.0	0	124628	834.000	1688.6	15.4	11	17	0	15.4	11	17	0
18	821454	0	36581.2	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501657	0	61860.6	0	470728	0	6563.0	0	125003	375.000	1695.6	7	5	18	0	7	5	18	0
19	821454	0	36581.2	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501657	0	61860.6	0	470728	0	6563.0	0	125652	840.000	1711.6	16	10	19	0	16	10	19	0
20	821454	0	36581.2	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501657	0	61860.6	0	470728	0	6563.0	0	126301	448.000	1720.1	8.5	5	20	0	8.5	5	20	0
21	821454	0	36581.2	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501659	3.000	61860.6	0.2	470728	0	6563.0	0	127270	969.000	1757.8	37.7	12	21	3.000	37.8	12	21	3.000
22	821462	6.000	36581.4	0.2	3	4183745	0	4079.2	0	37047	0	9032352	0	501660	0	61860.6	0	470728	0	6563.0	0	127871	601.000	1748.8	-9	7	22	8.000	-8.8	7	22	8.000
23	821462	1.000	36581.5	0.1	1	4183745	0	4079.2	0	37047	0	9032352	0	501660	0	61860.6	0	470728	0	6563.0	0	128541	170.000	1751.5	2.1	3	23	1.000	2.2	3	23	1.000
24	821462	0	36581.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501662	2.000	61860.9	0.1	470728	0	6563.0	0	128790	749.000	1765.6	13.7	9	24	2.000	13.8	9	24	2.000
25	821462	0	36581.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501663	1.000	61860.9	0	470728	0	6563.0	0	129226	436.000	1773.6	8	7	25	1.000	8	7	25	1.000
26	821462	0	36581.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501663	0	61860.9	0	470728	0	6563.0	0	129765	539.000	1785.5	9.9	7	26	0	9.9	7	26	0
27	821462	0	36581.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501663	0	61860.9	0	470728	0	6563.0	0	130367	802.000	1794.5	11	8	27	0	11	8	27	0
28	821463	0	36581.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501667	4.000	61861.1	0.2	470728	0	6563.0	0	131116	749.000	1808.1	13.6	9	28	4.000	13.8	9	28	4.000
29	821463	0	36581.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501668	1.000	61861.1	0	470728	0	6563.0	0	131735	619.000	1818.4	11.3	8	29	1.000	11.3	8	29	1.000
30	821463	0	36581.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501670	2.000	61861.2	0.1	470728	0	6563.0	0	132278	544.000	1829.4	10	8	30	2.000	10.1	8	30	2.000
31	821463	0	36581.5	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501670	0	61861.2	0	470728	0	6563.0	0	132782	473.000	1838.2	8.8	8	31	0	8.8	8	31	0
Total		0	366.000	0	0	4183745	0	4079.2	0	37047	0	9032352	0	501670	24.000	61861.2	0	470728	0	6563.0	0	132782	473.000	1838.2	8.8	8	31	0	8.8	8	31	0

Summary from SOADA reports										Average rates (Production (yr)										Based on KEG statements based on Cliff Harts									
Total Water Production 1,644,000										Well 1: casing										shut-in meter									
Total Hour run time 334.9										Well used 0										begin readings									
Average Gallons per minute 32										15/hrs 0										end									
per 24 hr day 151										begin 25667 25667										0 00									
										end 24418 24418										0 00									
										00000 00000										0 00									
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Daily readings from field reports									
Date (dd/mm)	Location	Flow meter gallons	per hours	starts	Flow meter gallons	per hours	starts	Flow meter gallons	per hours
1	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
2	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
3	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
4	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
5	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
6	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
7	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
8	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
9	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
10	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
11	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
12	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
13	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
14	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
15	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
16	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
17	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
18	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
19	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
20	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
21	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
22	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
23	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
24	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
25	821483	0	36581.5	0	4183745	0	4079.2	0	9032352
26	821543	0	36582.5	0	4183745	0	4079.2	0	9032352
27	821543	0	36582.5	0	4183745	0	4079.2	0	9032352
28	821543	0	36582.5	0	4183745	0	4079.2	0	9032352
29	821543	0	36582.5	0	4183745	0	4079.2	0	9032352
30	821543	0	36582.5	0	4183745	0	4079.2	0	9032352
Total	5	50,000	1333	0	50,000	1333	0	50,000	1333

Summary from SCADA reports

Total Water Production 17,804,000

Total Hours run time 515.5

Average Gallons per minute 359

Average cfs 1.27

Total Production (ac ft) 54.02

Peak day (ac ft) 4.86

Peak day (cfs) 2.46

Water right allocations total 22.44 cfs (instantaneous with irrigation)

Production Capacity 19,159 cfs (based on production rates of 1-1800, 2-3600, 3-1800, 4-900)

Set Points	Line Elevations	Pressure
Load Well #	0	0
Log Well #	0	0
Well #	0	0
Well #	0	0

Well #	Readings	Well #	Readings
821483	36581.5	821483	36581.5
821483	36581.5	821483	36581.5
821483	36581.5	821483	36581.5

Well #	Readings	Well #	Readings
821483	36581.5	821483	36581.5
821483	36581.5	821483	36581.5
821483	36581.5	821483	36581.5

Well #	Readings	Well #	Readings
821483	36581.5	821483	36581.5
821483	36581.5	821483	36581.5
821483	36581.5	821483	36581.5

Field reports	Weather	Water temperature
W1	W2	W3
W4	W5	W6
1	0.0	15.0
2	0.0	15.0
3	0.0	15.0
4	0.0	15.0
5	0.0	15.0
6	0.0	15.0
7	0.0	15.0
8	0.0	15.0
9	0.0	15.0
10	0.0	15.0
11	0.0	15.0
12	0.0	15.0
13	0.0	15.0
14	0.0	15.0
15	0.0	15.0
16	0.0	15.0
17	0.0	15.0
18	0.0	15.0
19	0.0	15.0
20	0.0	15.0
21	0.0	15.0
22	0.0	15.0
23	0.0	15.0
24	0.0	15.0
25	0.0	15.0
26	0.0	15.0
27	0.0	15.0
28	0.0	15.0
29	0.0	15.0
30	0.0	15.0

