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WELL DEVELOPMENT LOG

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level		Sample ID:
Well ID: I-AB	Sand Pack Interval:	Gal. To be Purged:
Date: 10-9-09	Screened Interval:	Development Methods:
Time Start: 3:01 End: 4:32	Measured Depth (pre-development): 52.33	
Recorded By: EK	Measured Depth (post-development):	Purging Equipment:
Project ID:	Static Water Level (pre): (post): 32.35	Water Level Equipment:
Job Number:	Standing Water Column (ft.):	PH/EC Meter:
Borehole Diameter:	One Well Volume (gal.):	Turbidity Meter:
Well Diameter: 6"	One Annulus Vol. (gal.):	Other:

Time	Amount Purged (gal)	Field Parameters Measured							Comments
		EC	PH	Temp.	DO	ORP	Turbidity	PID	
3:01		4.565	7.29	26.49	2.63	155.5	193		
3:20		4.473	7.07	25.84	3.62	161.6	68.7		
4:00		4.418	7.08	25.78	3.66	163.4	134		
4:32	144	4.414	7.16	25.84	2.89	165.0	82.6		

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WELL DEVELOPMENT LOG

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level		Sample ID:
Well ID: M-149	Sand Pack Interval:	Gal. To be Purged: 25
Date: 10-16-09	Screened Interval:	Development Methods:
Time Start: End:	Measured Depth (pre-development): 120.0'	
Recorded By: EK	Measured Depth (post-development):	Purging Equipment:
Project ID:	Static Water Level (pre): (post):	Water Level Equipment:
Job Number:	Standing Water Column (ft.):	PH/EC Meter:
Borehole Diameter:	One Well Volume (gal.):	Turbidity Meter:
Well Diameter: 2"	One Annulus Vol. (gal.):	Other:

Time	Amount Purged (gal)	Field Parameters Measured							Comments
		~~EC~~ Temp	PH	~~Temp.~~ EC	DO	ORP	Turbidity	PID	
	Ø	25.99	7.38	3.777	1.61	160.6	OVRG		
		27.89	7.67	1.945	4.69	158.6	OVRG		
		26.94	7.90	1.350	3.51	157.1	439		
		26.03	7.54	3.258	4.89	157.3	342		
	25	26.55	7.78	2.081	4.57	156.4	324		

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WELL DEVELOPMENT LOG

All measurements taken from: ☐ Top of Casing ☐ Protective Casing ☐ Ground Level		Sample ID:
Well ID: M150	Sand Pack Interval:	Gal. To be Purged:
Date: 10/14/09 - 10/15/09	Screened Interval:	Development Methods:
Time Start: 410 End:	Measured Depth (pre-development): 148.6	
Recorded By:	Measured Depth (post-development):	Purging Equipment:
Project ID:	Static Water Level (pre): 24.5 (post):	Water Level Equipment:
Job Number:	Standing Water Column (ft.):	PH/EC Meter:
Borehole Diameter:	One Well Volume (gal.):	Turbidity Meter:
Well Diameter: 24	One Annulus Vol. (gal.):	Other:

Time	Amount Purged (gal)	Field Parameters Measured							Comments
		EC	PH	Temp.	DO	ORP	Turbidity	PID	
410	0								
415	7.5	1.541	7.94	26.94	.230	175.1	error		run dry
435	22	1.492	7.91	26.89	1.210	180.4	error		
455	37	1.488	7.92	26.87	1.281	181.0	error		
530	42	1.472	7.89	26.51	1.277	181.4	error		
730	52	1.495	7.85	24.88	.815	177.2	12.5		
745	57	1.488	7.86	25.04	1.211	180.2	200		

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WELL DEVELOPMENT LOG

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level		Sample ID:
Well ID: M152	Sand Pack Interval:	Gal. To be Purged:
Date: 10/15/09	Screened Interval:	Development Methods:
Time Start: End:	Measured Depth (pre-development): 132.0	
Recorded By: EK	Measured Depth (post-development):	Purging Equipment:
Project ID:	Static Water Level (pre): 26.5 (post):	Water Level Equipment:
Job Number:	Standing Water Column (ft.):	PH/EC Meter:
Borehole Diameter:	One Well Volume (gal.):	Turbidity Meter:
Well Diameter: 2 4	One Annulus Vol. (gal.):	Other:

Time	Amount Purged (gal)	Field Parameters Measured							Comments
		EC	PH	Temp.	DO	ORP	Turbidity	PID	
340	0								
345	7.5	3.270	7.76	26.33	1.48	181.7	error		
350	67.5	1.744	7.73	26.83	2.00	178.5	24.3		
430	127.5	1.491	7.84	26.57	3.31	177.0	460		
510	157.5	1.290	7.86	26.59	2.99	178.9	46.5		
530	187.5	1.312	7.86	26.55	2.91	179.1	9.80		

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WELL DEVELOPMENT LOG

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level		Sample ID:
Well ID: M-153	Sand Pack Interval:	Gal. To be Purged: 25
Date: 10-12-09	Screened Interval:	Development Methods:
Time Start: End:	Measured Depth (pre-development):	
Recorded By: EK	Measured Depth (post-development):	Purging Equipment:
Project ID:	Static Water Level (pre): (post):	Water Level Equipment:
Job Number:	Standing Water Column (ft.):	PH/EC Meter:
Borehole Diameter:	One Well Volume (gal.):	Turbidity Meter:
Well Diameter: 2"	One Annulus Vol. (gal.):	Other:

Time	Amount Purged (gal)	Field Parameters Measured							Comments
		EC	PH	Temp.	DO	ORP	Turbidity	PID	
10:40	0	1.075	7.39	25.5	2.17	155.1	OVRG		
11:06		0.872	8.04	25.84	5.33	157.4	495		
11:49		0.846	7.84	25.94	4.61	158.6	177		
12:12	25	0.834	7.87	26.41	4.87	158.6	error		

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WELL DEVELOPMENT LOG

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level		Sample ID:
Well ID: M154	Sand Pack Interval:	Gal. To be Purged:
Date: 10/14/09	Screened Interval:	Development Methods:
Time Start: 1255 End:	Measured Depth (pre-development): 195.3	
Recorded By: EK	Measured Depth (post-development):	Purging Equipment:
Project ID:	Static Water Level (pre): 18.0 (post):	Water Level Equipment:
Job Number:	Standing Water Column (ft.):	PH/EC Meter:
Borehole Diameter:	One Well Volume (gal.):	Turbidity Meter:
Well Diameter: 2"	One Annulus Vol. (gal.):	Other:

Time	Amount Purged (gal)	Field Parameters Measured							Comments
		EC	PH	Temp.	DO	ORP	Turbidity	PID	
1255	0			~~26.45~~					
100	7.5	.885	7.99	26.45	1.22	182.3	error		ran dry
120	28.00	1.204	7.95	26.71	3.22	187.3	error		
135	33	.829	8.08	27.63	2.92	178.0	error		
205	43	.846	8.00	27.92	2.84	176.7	error		
220	48	.846	7.98	27.98	3.01	178.4	error		

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WELL DEVELOPMENT LOG

All measurements taken from: ☒ Top of Casing ☐ Protective Casing ☐ Ground Level		Sample ID:
Well ID: M156	Sand Pack Interval:	Gal. To be Purged:
Date: 10/15/09	Screened Interval:	Development Methods:
Time Start: End:	Measured Depth (pre-development): 198	
Recorded By:	Measured Depth (post-development):	Purging Equipment:
Project ID:	Static Water Level (pre): 22.0 (post):	Water Level Equipment:
Job Number:	Standing Water Column (ft.):	PH/EC Meter:
Borehole Diameter: 2"	One Well Volume (gal.):	Turbidity Meter:
Well Diameter:	One Annulus Vol. (gal.):	Other:

Time	Amount Purged (gal)	Field Parameters Measured							Comments
		EC	PH	Temp.	DO	ORP	Turbidity	PID	
905	0								
910	7.5	2.529	8.28	25.44	1.20	195.7	error		ran dry
1030	17	2.247	8.05	26.94	1.94	135.1	367		
1100	22	1.930	8.05	27.44	3.40	163.4	error		
1130	27	1.762	8.00	27.68	3.64	170.3	error		
1200	32	1.630	8.19	27.53	3.59	178.1	~~error~~ 393		