FREEPORT-McMoRan
COPPER & GOLD

Sierrita Operations
Environment, Land & Water Department
6200 West Duval Mine Road
PO Box 527
Green Valley, Arizona 85622-0527

March 28, 2013

Via Certified Mail # 7011 1150 0000 0283 8249
Return Receipt Requested

Ms. Mindi Cross
Arizona Department of Environmental Quality
Water Quality Compliance Section
1110 West Washington Street
Phoenix, Arizona 85007-2935

Re: Mitigation Order on Consent Docket No. P-50-06
January 1st through March 31st, 2013 Status Report

Dear Ms. Cross:

In accordance with Section V.A. of the Mitigation Order on Consent, Docket No. P-50-06, Freeport-McMoRan Sierrita Inc. (Sierrita) submits the Status Report covering the period from January 1st through March 31st, 2012.

Since the last Status Report was submitted, the following measures have been taken under Section III of the Mitigation Order:

- Completed the 1st quarter, 2013 groundwater monitoring activities.
- Completed drilling, air lifting, and pump testing on FFS-3, FFS-4, FFS-5, and MC-2 wells.
- Commenced drilling of FFS-2 and FFS-1 wells.
- Completed construction of the booster station needed for the entire mitigation well conveyance system.
- Continued construction of conveyance system on West Desert Trails (former state land).
- Continued work on the feasibility study for the new tailings impoundment.
-
- Held the first CAG meeting of the year on March 14th, 2013.

During the next quarter, the following activities will be conducted:

- Continue drilling the remaining MC and FFS wells.
- Complete pump installation on all PS wells.
- Complete 25kV distribution line for all FFS, MC, and PS wells.
- Complete inspections and testing of booster station for the entire mitigation well conveyance system.
- Continue development of the new tailing impoundment feasibility study.
- Conduct subsidence study evaluating Mitigation Order pumping plan impacts to community and Sierrita operational structures.
- Complete and submit the Semiannual Groundwater Monitoring Report, due on April 30th, 2013.
- Conduct quarterly groundwater monitoring according to the revised groundwater monitoring schedule.
- Continue to revise Mitigation Plan implementation schedule for later submittal for ADEQ approval.

- Hold the next CAG meeting.

Also, please find the attached 2012 Interceptor Well Field Operations Monitoring Report, which Sierrita agreed to submit in the Mitigation Plan approval deferral letter sent to ADEQ on March 18, 2009.

Please do not hesitate to contact me at (520) 393-2514 if you have any question regarding this submittal.

Sincerely,

for: Clinton D. Beck, E.I.T.
Environmental Engineer
Freeport-McMoRan Sierrita Inc.

CDB/ms
20130326_003

xc: David Haag, Arizona Department of Environmental Quality
John Broderick, Sierrita
Lana Fretz, Sierrita
Ned Hall, Freeport-McMoRan Copper & Gold
Stuart Brown, Freeport-McMoRan Copper & Gold
Jim Norris, Clear Creek Associates

TECHNICAL MEMORANDUM REPORT

TO: Ms. Martha Mottley
Chief Environmental Engineer
Freeport--McMoRan Sierrita Inc.
6200 West Duval Mine Road
Post Office Box 527
Green Valley, AZ 85622-0527

FROM: BasinWells Associates, PLLC

PREPARED BY: Buck Schmidt, Principal Hydrologist
BasinWells Associates, PLLC

REVIEWED BY: Michael W. Bostic, R.G,. Principal Hydrogeologist
BasinWells Associates, PLLC

DATE: March 28, 2013

PROJECT NO.: 12-001

SUBJECT: 2012 Freeport -- McMoran Sierrita Inc. Interceptor Well Field Operations Performance Technical Memorandum Report.

1.0 INTRODUCTION

This operations performance technical memorandum presents operational information for calendar year 2012 for the Freeport-McMoRan Sierrita Inc. (Sierrita) Interceptor Well Field. The Sierrita Interceptor Well Field is comprised of 24 active interceptor wells, with four new interceptor wells, IW-25, IW-26 IW-27 and IW-28, installed in late 2010 and activated in April 2012. The locations of the interceptor wells are shown on Figure 1. Table 1 tabulates well information including cadastral legal locations, target yield rates, well construction details, completion date and well age. Target yield rates were developed by groundwater modeling and capture zone analyses (HydroGeoChem & Clear Creek Associates PLC, 2010). Additional plume stabilization, mass capture, and focused feasibility study wells are planned in the future for an area to the northeast and east of the existing Interceptor wells.

Well field performance goals established by Sierrita to meet the goal of operation include:

- Operate all interceptor wells on a continual duty cycle run time, as close to 100 percent as practical. Acceptable duty cycle run time is identified within the range of 90 to 95% considering required maintenance and monitoring activities.
- Operate each interceptor well at or above target yield rates developed for each well.

Groundwater from the interceptor wells is collected through a transmission pipeline running along the east and south flank of the tailings impoundment (Figure 1). Groundwater is conveyed through this transmission pipeline to the Sierrita Interceptor Tank, and then boosted to the Reclaim Tank. At the Reclaim Tank, the groundwater developed by the Interceptor Well Field is combined with reclaim water from the tailings impoundment dewatering for pumping to the mill site. The Reclaim water system provides a portion of the process water supply for mine operations.

Figure 1. Sierrita Interceptor Well Field

TABLE 1. 2012 SIERRITA INTERCEPTOR WELL FIELD INFORMATION

Well	Cadastral Location	ADWR Reg. No.	Target Yield Rate (gpm)	Well Depth (ft)	Well Dia. (in.)	Borehole Diameter (in.)	Casing Material	Upper Screen Depth (ft bls)	Lower Screen Depth (ft bls)	Pump Gallery?/ Interval (ft bls)	Current Pump Setting (ft bls)	Filter Pack Material	Basin Fill Base Depth (ft bls)	Completion Date	Well Age
IW-1	D-18-13 29DCD	55-623129	250	855	14		LCS	234	843	No	480	GRAVEL	760	7/31/1978	34.7
IW-2A	D-18-13 28CCC	55-216464	425	1051	14	20	HSLA	350	1031	600-640	620	GRAVEL	1020	3/11/2008	5.0
IW-3A	D-18-13 28CBC	55-201732	500	1052	14	20	LCS	400	1030	No	540	GRAVEL	820	1/1/2004	9.2
IW-8	D-18-13 28BCC	55-508236	425	783	14	20	LCS	382	783	No	540	GRAVEL	759	7/26/1984	28.7
IW-9	D-18-13 28BCC	55-508238	250	853	14	20	LCS	412	853	No	605	GRAVEL	740	8/6/1984	28.6
IW-4	D-18-13 28BCB	55-623132	80	946	14		LCS	312	946	No	600	GRAVEL	490	7/23/1978	34.7
IW-24	D-18-13 28BBB	55-200556	100	884	14	20	LCS	348	860	No	602	GRAVEL	410	1/1/2004	9.2
IW-5A	D-18-13 28BBB	55-219131	100	900	14	20	SS	382	890	620-640	630	TACNA GRAVEL	436	5/1/2010	2.9
IW-23	D-18-13 21CCB	55-200555	150	964	14	20	LCS	375	935	No	550	TACNA GRAVEL	420	1/1/2004	9.2
IW-10	D-18-13 21CBC	55-508237	325	831	14	20	LCS	420	831	No	600	GRAVEL	730	8/15/1984	28.6
IW-22	D-18-13 21CBC	55-200554	325	590	14	20	LCS	359	560	No	550	GRAVEL	550	1/1/2004	9.2
IW-11	D-18-13 21CBC	55-508235	325	605	14	20	LCS	371	605	No	500	GRAVEL	563	8/24/1984	28.6
IW-6A	D-18-13 21BCC	55-545565	90	497	12	20	LCS	356	456	No	460	GRAVEL	456	11/29/1994	18.3
IW-12	D-18-13 21BCB	55-545555	150	600	12	20	LCS	358	560	No	560	GRAVEL	498	12/6/1994	18.3
IW-13	D-18-13 21BBC	55-545556	0	497	12	20	LCS	355	456	No	460	GRAVEL	452	12/1/1994	18.3
IW-14	D-18-13 21BBB	55-545557	75	549	12	20	LCS	357	508	No	520	GRAVEL	509	12/20/1994	18.3
IW-15	D-18-13 16CCC	55-545558	50	547	12	20	LCS	357	506	No	505	GRAVEL	507	1/8/1995	18.2
IW-19	D-18-13 16BCC	55-545562	200	540	12	20	LCS	379	499	No	522	GRAVEL	498	1/30/1995	18.1
IW-20	D-18-13 16BCB	55-545563	0	502	12	20	LCS	380	460	No	460	GRAVEL	470	2/6/1995	18.1
IW-21	D-18-13 16BBC	55-545564	150	601	12	20	LCS	400	560	No	520	GRAVEL	520	2/1/1995	18.1
IW-25	D-18-13 28CBD	55-219596	400	782	16	24	SS	359	720	No		SILICA SAND	475	11/1/2010	2.4
IW-26	D-18-13 28BCD	55-219143	400	780	16	24	SS	340	720	No		SILICA SAND	475	11/1/2010	2.4
IW-27	D-18-13 28BBD	55-219136	400	720	14	22	SS	380	660	No		SILICA SAND	465	11/1/2010	2.4
IW-28	D-18-13 21CCA	55-219137	400	760	16	24	SS	380	700	No		SILICA SAND	680	11/1/2010	2.4

Note:
LCS = low-carbon steel
HSLA = High-Strength Low Alloy Steel
SS = Stainless Steel

2.0 INTERCEPTOR WELL FIELD OPERATIONS

Total groundwater withdrawals in 2012 of the Sierita Interceptor Well Field are tabulated on Table 2. The well field withdrew about 7,400 acre-feet of groundwater in 2012. The Sierrita Interceptor Well Field, in total, produced 90 percent of the performance goals with respect to potential total groundwater withdrawal considering the target rates.

Well performance in 2012 on a well by well basis are tabulated in Attachment A. Run time percentages ranged from 62.7 to 98.6. Lower percentages are mostly associated with new interceptor wells activated in April 2012. As needed well and transmission line maintenance activities, and shut down of wells to perform monitoring activities resulted in performance of most interceptor wells within 90 to 95 percent duty cycle run times and considered acceptable.

Interceptor well field data plots including a well construction diagram; static and pumping water levels; yield rates; calculated specific capacity; sulfate concentrations; static saturated thickness of basin fill alluvium; and annotated descriptions of maintenance activities from 2003 to 2012 are included in Attachment B.

TABLE 2. 2012 INTERCEPTOR WELL FIELD TOTAL GROUNDWATER WITHDRAWAL

Total Gallons Pumped:	**2,413,055,610**
Total Acre-Feet Pumped:	**7,405**

3.0 SUMMARY OF WELL MAINTENANCE ACTIVITIES

Summary of well and pump maintenance activities performed in 2012 are tabulated on Table 3 below. All maintenance activities were performed following collection and evaluation of maintenance monitoring parameters as described in the *Operations and Maintenance Manual for the Interceptor Well Field* (BasinWells, 2011).

TABLE 3. 2012 INTERCEPTOR WELL FIELD SUMMARY OF WELL AND PUMP MAINTENANCE ACTIVITIES

Well	Approx. Dates Off Line for Maintenance	Maintenance Activities
IW-1	-	-
IW-2A	-	-
IW-3A	7/17/2012 - 8/6/2012	Replaced column pipe and pump
IW-8	9/?/2012 - 12/?/2012	Transformer Failure
IW-9	-	-
IW-4	11/1/2012 - 11/26/2012	Replaced column pipe and pump 11/30/2012 - Hour meter replaced
IW-24	-	-
IW-5A	-	-
IW-23	-	-
IW-10	-	11/30/2012 - Hour meter replaced

TABLE 3. 2012 INTERCEPTOR WELL FIELD SUMMARY OF WELL AND PUMP MAINTENANCE ACTIVITIES		
Well	**Approx. Dates Off Line for Maintenance**	**Maintenance Activities**
IW-22	2/20/2012 - 3/7/2012	Replaced column pipe and pump 2/14/2012 - Hour meter replaced
IW-11	-	-
IW-6A	3/20/2012 - 4/10/2012	Replaced column pipe with fiberglass column pipe and replaced submersible pump
IW-12	5/?/2012	Replaced column pipe with fiberglass column pipe and replaced submersible pump
IW-13	-	-
IW-14	1/23/2012 - 2/7/2012	Replaced column pipe with fiberglass column pipe and replaced submersible pump
IW-15	1/1/2012 - 1/10/2012	Replaced column pipe with fiberglass column pipe and replaced submersible pump
IW-19	-	10/15/2012 - Hour meter replaced
IW-20	7/26/2012 - 8/7/2012	Replaced column pipe and submersible pump
IW-21	-	11/14/2012 - Totalizer replaced
IW-25	1/1/2012 - 4/15/2012	4/16/2012 - Put online for service
IW-26	1/1/2012 - 4/15/2012	4/16/2012 - Put online for service
IW-27	1/1/2012 - 4/15/2012	4/16/2012 - Put online for service
IW-28	1/1/2012 - 4/15/2012	4/16/2012 - Put online for service

4.0 FUTURE MAINTENANCE ACTIVITIES

Future maintenance activities will continue to adhere to activities and frequencies as described in *Operations and Maintenance Manual for the Interceptor Well Field* (BasinWells, 2011). All maintenance activities to be performed following collection and evaluation of maintenance monitoring parameters.

Specific activities identified include the installation of a new interceptor well approximately 1,200 feet east of IW-11 and IW-6A (BasinWells, 2012). Operationally, IW-11 and IW-6A could continue to operate in conjunction with the new well. Once it is determined that life cycle of IW-11 or IW-6A have been exceeded, the new well should be able to maintain effective groundwater capture in the area. The original well(s) will either be abandoned or utilized for future groundwater monitoring. Construction of the new well is scheduled for 2013.

5.0 OTHER ONGOING ACTIVITIES

Series of plume stabilization, mass capture and focused feasibility study wells are currently being installed and equipped. Location of these wells along with active inceptor wells are shown on Figure 2. Cadastral locations and Arizona Department of Water Resources (ADWR) registration numbers are tabulated in Table 4. Schedule of target yield rates for these wells are included on Tables 5, 6 and 7. Below summaries status of construction of these wells as of date of this report:

- Four plume stabilization wells have been installed and are in process of being equipped.
- Three of four of the mass capture wells have been installed and will be equipped by late 2013.
- Five of six of the focused feasibility study wells have been installed and will be equipped by late 2013.

Figure 2. Sierrita Interceptor, Plume Stabilization, Mass Capture and Focused Feasibility Study Well Field

TABLE 4. PLUME STABILIZATION, MASS CAPTURE AND FOSCUED FEASIBILITY STUDY WELLS' ADWR REGISTRATION NUMBERS AND CADASTRAL LOCATIONS		
Well	**ADWR Reg. No.**	**Cadastral Location**
PS-1	55-220861	D-18-13 03BBA
PS-2	55-220862	D-17-13 34CDC
PS-3	55-220863	D-17-13 34CDD
PS-4	55-220864	D-18-13 03BCA
MC-1	55-221660	D-18-13 16DAA
MC-2	55-221761	D-18-13 10CCB
MC-3	55-221661	D-18-13 09AAA
MC-4	55-220842	D-18-13 04DDC
FFS-1	55-221662	D-18-13 21ABC
FFS-2	55-221663	D-18-13 16DCA
FFS-3	55-221664	D-18-13 16ACD
FFS-4	55-221665	D-18-13 16ABA
FFS-5	55-221666	D-18-13 09DBA
FFS-6	55-221667	D-18-13 09ACA

TABLE 5. TARGET YIELD RATE SCHEDULE FOR PLUME STABLIZATION WELLS					
	PUMPING RATE IN GALLONS PER MINUTE				
Well Name	**2014 to 2020**	**2021 to 2025**	**2026 to 2030**	**2031 to 2035**	**2036 to 2042**
PS-1	600	600	600	750	750
PS-2	600	450	450	450	450
PS-3	600	450	450	0	0
PS-4	750	750	800	1100	1100
Totals	**2550**	**2250**	**2300**	**2300**	**2300**

TABLE 6. TARGET YIELD RATE SCHEDULE FOR MASS CAPTURE WELLS					
	PUMPING RATE IN GALLONS PER MINUTE				
Well Name	**2014 to 2020**	**2021 to 2025**	**2026 to 2030**	**2031 to 2035**	**2036 to 2042**
MC-1	700	700	700	700	700
MC-2	700	700	700	900	900
MC-3	600	600	600	900	900
MC-4	600	600	600	600	0
Totals	**2600**	**2600**	**2600**	**3100**	**2500**

TABLE 7. TARGET YIELD RATE SCHEDULE FOR FOCUSED FEASIBILITY STUDY WELLS							
	PUMPING RATE IN GALLONS PER MINUTE						
Well Name	2014 to 2020	2021 to 2025	2026 to 2030	2031 to 2035	2036 to 2042	2043 to 2050	2051 to 2060
FFS-1	700	700	500	500	200	200	200
FFS-2	600	400	400	400	100	200	200
FFS-3	400	400	400	400	400	200	200
FFS-4	500	500	300	300	300	400	400
FFS-5	900	900	900	900	900	500	300
FFS-6	600	600	600	400	400	200	200
Totals	**3700**	**3500**	**3100**	**2900**	**2300**	**1700**	**1500**

6.0 REFERENCES

BasinWells Associates, PLLC, *Freeport-McMoran Sierrita Inc., Operations and Maintenance Manual for the Interceptor Well Field*, June 30, 2011.

BasinWells Associates, PLLC, *Freeport-McMoran Sierrita Inc., Optimally Site and Design a Replacement Interceptor Well at the Freeport-McMoran Sierrita Inc.*, February 6, 2012.

BasinWells Associates, PLLC, *Freeport-McMoran Sierrita Inc., 2011 Sierrita Interceptor Well Field Operation Performance Technical*, March 28, 2012.

HydroGeoChem, Inc. and Clear Creek Associates, P.L.C., *Freeport-McMoran Sierrita Inc., Final Wellfield Conceptual Design*, January 29, 2010.

ATTACHMENT A

SIERRITA INTERCEPTOR WELL FIELD PERFORMANCE SUMMARY

ATTACHMENT A.
SUMMARY OF 2012 INTERCEPTOR WELL PERFORMANCE
FREEPORT MCMORAN SIERRITA, INC.

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-1	Jan	17,506,000	742	53.1	589
	Feb	14,883,000	645	45.7	386
	Mar	16,855,000	734	51.7	382
	Apr	17,176,000	780	52.7	387
	May	15,350,000	678	47.1	377
	Jun	17,550,000	756	53.9	387
	Jul	15,190,000	671	46.6	377
	Aug	15,448,000	682	47.4	378
	Sep	16,664,000	781	51.1	375
	Oct	16,282,000	718	50.0	378
	Nov	15,089,000	649	46.3	387
	Dec	12,139,000	738	37.3	274
		IW-1 Total Gallons Pumped:			189,912,000
		IW-1 Total Acre-Feet Pumped:			583
		IW-1 Average Yield Rate (gpm):			373
		IW-1 % Run Time:			96.9%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-2A	Jan	16,173,000	765	50.2	357
	Feb	13,955,000	645	42.8	361
	Mar	15,283,000	719	46.9	354
	Apr	14,171,000	666	43.5	355
	May	14,325,000	675	44.0	354
	Jun	14,360,000	689	44.1	347
	Jul	15,423,000	756	47.3	349
	Aug	14,081,000	683	43.2	344
	Sep	14,930,000	736	45.8	338
	Oct	14,376,000	719	44.1	333
	Nov	14,049,000	708	43.1	331
	Dec	14,484,000	734	44.4	329
		IW-2A Total Gallons Pumped:			175,810,000
		IW-2A Total Acre-Feet Pumped:			540
		IW-2A Average Yield Rate (gpm):			346
		IW-2A % Run Time:			96.7%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-3A	Jan	25,670,000	770	78.8	556
	Feb	20,974,000	645	64.4	542
	Mar	20,771,000	718	63.7	482
	Apr	17,512,000	663	53.7	440
	May	16,055,000	673	49.3	398
	Jun	14,517,000	693	44.5	349
	Jul	2,272,000	183	7.0	207
	Aug	21,528,000	546	66.1	657
	Sep	29,170,000	735	89.5	661
	Oct	28,281,000	720	86.8	655
	Nov	27,629,000	709	84.8	649
	Dec	28,432,000	673	87.2	704
		IW-3A Total Gallons Pumped:			252,811,000
		IW-3A Total Acre-Feet Pumped:			776
		IW-3A Average Yield Rate (gpm):			545
		IW-3A % Run Time:			88.2%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-8	Jan	18,922,000	771	58.1	409
	Feb	15,937,000	646	48.9	411
	Mar	17,667,000	714	54.2	412
	Apr	18,071,000	732	55.5	411
	May	16,610,000	676	51.0	410
	Jun	16,831,000	694	51.6	404
	Jul	18,450,000	764	56.6	402
	Aug	9,745,000	405	29.9	401
	Sep	2,784,000	116	8.5	400
	Oct	0	0	0.0	
	Nov	0	0	0.0	
	Dec	0	0	0.0	
		IW-8 Total Gallons Pumped:			195,017,000
		IW-8 Total Acre-Feet Pumped:			414
		IW-8 Average Yield Rate (gpm):			409
		IW-8 % Run Time:			63.0%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-9	Jan	11,956,000	772	36.6	258
	Feb	10,034,000	651	30.8	257
	Mar	10,998,000	715	33.7	256
	Apr	10,849,000	712	33.3	254
	May	10,029,000	677	30.8	247
	Jun	9,908,000	692	30.4	239
	Jul	10,750,000	766	33.0	234
	Aug	9,481,000	684	29.1	231
	Sep	10,195,000	741	31.3	229
	Oct	9,845,000	709	30.2	231
	Nov	9,426,000	687	28.9	229
	Dec	8,590,000	634	26.4	226
		IW-9 Total Gallons Pumped:			122,089,000
		IW-9 Total Acre-Feet Pumped:			374
		IW-9 Average Yield Rate (gpm):			241
		IW-9 % Run Time:			96.3%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-4	Jan	2,638,000	774	8.1	57
	Feb	2,286,000	651	7.0	59
	Mar	2,460,000	715	7.6	58
	Apr	2,618,000	727	7.4	55
	May	2,025,000	670	6.2	50
	Jun	1,866,000	679	5.7	46
	Jul	1,990,000	782	6.1	42
	Aug	1,689,000	684	5.2	41
	Sep	1,722,000	742	5.3	39
	Oct	453,000	222	1.4	34
	Nov	333,000	74	1.0	75
	Dec	2,254,000	459	6.9	82
		IW-4 Total Gallons Pumped:			22,143,000
		IW-4 Total Acre-Feet Pumped:			68
		IW-4 Average Yield Rate (gpm):			51
		IW-4 % Run Time:			82.0%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-24	Jan	4,887,000	772	15.0	106
	Feb	3,813,000	629	11.7	101
	Mar	4,021,000	719	12.3	93
	Apr	3,226,000	657	9.9	82
	May	3,159,000	677	9.7	78
	Jun	2,994,000	688	9.2	73
	Jul	2,844,000	771	8.7	61
	Aug	2,255,000	681	6.9	55
	Sep	2,378,000	742	7.3	53
	Oct	2,321,000	737	7.1	52
	Nov	2,242,000	704	6.9	53
	Dec	2,310,000	737	7.1	52
		IW-24 Total Gallons Pumped:			36,450,000
		IW-24 Total Acre-Feet Pumped:			112
		IW-24 Average Yield Rate (gpm):			71
		IW-24 % Run Time:			97.2%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-5A	Jan	4,243,000	775	13.0	91
	Feb	3,578,000	645	11.0	92
	Mar	3,982,000	715	12.2	93
	Apr	3,908,000	732	12.0	89
	May	3,153,000	671	9.7	78
	Jun	2,829,000	694	8.7	68
	Jul	2,745,000	765	8.4	60
	Aug	2,235,000	684	6.9	54
	Sep	2,197,000	715	6.7	51
	Oct	2,060,000	718	6.3	48
	Nov	2,014,000	708	6.2	47
	Dec	1,971,000	737	6.0	45
		IW-5A Total Gallons Pumped:			34,920,000
		IW-5A Total Acre-Feet Pumped:			107
		IW-5A Average Yield Rate (gpm):			68
		IW-5A % Run Time:			97.7%

ATTACHMENT A.
SUMMARY OF 2012 INTERCEPTOR WELL PERFORMANCE
FREEPORT MCMORAN SIERRITA, INC.

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-23	Jan	7,032,000	750	21.6	156
	Feb	6,085,000	635	18.7	160
	Mar	6,698,000	720	20.6	155
	Apr	6,139,000	688	18.8	149
	May	4,944,000	565	15.2	146
	Jun	5,013,000	592	15.4	141
	Jul	5,192,000	630	15.9	137
	Aug	5,437,000	685	16.7	135
	Sep	5,645,000	742	17.3	127
	Oct	7,490,000	717	23.0	174
	Nov	5,231,000	541	16.1	161
	Dec	5,171,000	478	15.9	180
IW-23 Total Gallons Pumped:		70,077,000			
IW-23 Total Acre-Feet Pumped:		215			
IW-23 Average Yield Rate (gpm):		151			
IW-23 % Run Time:		88.9%			

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-10	Jan	15,782,000	770	48.4	342
	Feb	13,485,000	651	41.4	345
	Mar	14,579,000	713	44.7	341
	Apr	14,699,000	731	45.1	335
	May	12,828,000	668	39.4	320
	Jun	13,166,000	702	40.4	313
	Jul	14,490,000	745	44.5	324
	Aug	12,719,000	685	39.0	309
	Sep	13,653,000	742	41.9	307
	Oct	12,159,000	673	37.3	301
	Nov	9,431,000	530	28.9	297
	Dec	15,043,000	715	46.0	304
IW-10 Total Gallons Pumped:		160,054,000			
IW-10 Total Acre-Feet Pumped:		491			
IW-10 Average Yield Rate (gpm):		320			
IW-10 % Run Time:		95.0%			

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-22	Jan	9,601,000	655	29.5	245
	Feb	476,000	44	1.5	180
	Mar	12,826,000	548	39.4	390
	Apr	16,600,000	734	50.9	377
	May	14,485,000	654	44.4	369
	Jun	15,070,000	682	46.2	368
	Jul	16,406,000	756	50.3	362
	Aug	14,542,000	679	44.6	357
	Sep	15,705,000	742	48.2	353
	Oct	15,410,000	733	47.3	350
	Nov	14,718,000	711	45.2	345
	Dec	14,930,000	738	45.8	337
IW-22 Total Gallons Pumped:		160,769,000			
IW-22 Total Acre-Feet Pumped:		493			
IW-22 Average Yield Rate (gpm):		349			
IW-22 % Run Time:		87.6%			

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-11	Jan	19,507,000	771	59.9	421
	Feb	16,648,000	652	51.1	426
	Mar	18,004,000	715	55.2	420
	Apr	17,940,000	731	55.1	409
	May	16,098,000	670	49.4	400
	Jun	16,167,000	677	49.6	398
	Jul	17,879,000	766	54.9	389
	Aug	15,698,000	682	48.2	384
	Sep	16,866,000	738	51.8	381
	Oct	16,164,000	717	49.6	376
	Nov	15,803,000	711	48.5	370
	Dec	16,115,000	739	49.5	363
IW-11 Total Gallons Pumped:		202,889,000			
IW-11 Total Acre-Feet Pumped:		623			
IW-11 Average Yield Rate (gpm):		395			
IW-11 % Run Time:		97.8%			

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-6A	Jan	3,741,000	662	11.5	94
	Feb	3,229,000	570	9.9	94
	Mar	454,000	80	1.4	95
	Apr	2,774,000	451	8.5	103
	May	4,104,000	676	12.6	101
	Jun	3,779,000	633	11.6	99
	Jul	4,484,000	766	13.8	98
	Aug	3,912,000	682	12.0	96
	Sep	4,155,000	742	12.7	93
	Oct	3,912,000	715	12.0	91
	Nov	3,792,000	710	11.6	89
	Dec	3,802,000	731	11.7	87
IW-6A Total Gallons Pumped:		42,136,000			
IW-6A Total Acre-Feet Pumped:		129			
IW-6A Average Yield Rate (gpm):		95			
IW-6A % Run Time:		84.7%			

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-12	Jan	5,955,000	755	18.3	131
	Feb	4,861,000	623	14.9	130
	Mar	4,909,000	752	15.1	112
	Apr	980,000	309	3.0	53
	May	3,602,000	478	11.1	126
	Jun	5,434,000	682	16.7	133
	Jul	7,016,000	765	21.5	153
	Aug	6,205,000	684	19.0	151
	Sep	6,670,000	742	20.5	150
	Oct	6,400,000	717	19.6	149
	Nov	6,295,000	710	19.3	148
	Dec	6,471,000	738	19.9	146
IW-12 Total Gallons Pumped:		64,798,000			
IW-12 Total Acre-Feet Pumped:		199			
IW-12 Average Yield Rate (gpm):		136			
IW-12 % Run Time:		90.6%			

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-13	Jan	1,077,000	759	3.3	24
	Feb	958,000	670	2.9	24
	Mar	1,044,000	737	3.2	24
	Apr	1,034,000	740	3.2	23
	May	936,000	675	2.9	23
	Jun	964,000	677	3.0	24
	Jul	1,104,000	766	3.4	24
	Aug	982,000	688	3.0	24
	Sep	1,051,000	742	3.2	24
	Oct	1,015,000	733	3.1	23
	Nov	967,000	711	3.0	23
	Dec	1,004,000	738	3.1	23
IW-13 Total Gallons Pumped:		12,136,000			
IW-13 Total Acre-Feet Pumped:		37			
IW-13 Average Yield Rate (gpm):		23			
IW-13 % Run Time:		98.0%			

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-14	Jan	602,000	402	1.8	25
	Feb	2,508,000	491	7.7	85
	Mar	3,643,000	736	11.2	82
	Apr	3,552,000	719	10.9	82
	May	3,371,000	677	10.3	83
	Jun	3,258,000	584	10.0	93
	Jul	3,703,000	846	11.4	73
	Aug	3,283,000	688	10.1	80
	Sep	3,454,000	742	10.6	78
	Oct	3,198,000	693	9.8	77
	Nov	2,918,000	638	9.0	76
	Dec	2,596,000	566	8.0	76
IW-14 Total Gallons Pumped:		36,086,000			
IW-14 Total Acre-Feet Pumped:		111			
IW-14 Average Yield Rate (gpm):		72			
IW-14 % Run Time:		88.8%			

ATTACHMENT A.
SUMMARY OF 2012 INTERCEPTOR WELL PERFORMANCE
FREEPORT MCMORAN SIERRITA, INC.

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-15	Jan	2,183,500	754	6.7	48
	Feb	1,928,800	665	5.9	48
	Mar	2,085,000	724	6.4	48
	Apr	2,161,900	780	6.6	49
	May	1,777,300	653	5.5	45
	Jun	1,936,300	679	5.9	48
	Jul	2,232,100	765	6.8	49
	Aug	2,005,900	688	6.2	49
	Sep	2,129,500	745	6.5	48
	Oct	2,069,000	735	6.3	47
	Nov	1,986,300	711	6.1	47
	Dec	2,050,300	734	6.3	47

IW-15 Total Gallons Pumped:	24,549,500
IW-15 Total Acre-Feet Pumped:	75
IW-15 Average Yield Rate (gpm):	48
IW-15 % Run Time:	98.1%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-19	Jan	7,301,980	779	22.4	156
	Feb	6,357,650	670	19.5	158
	Mar	6,901,950	733	21.2	157
	Apr	6,778,910	732	20.8	154
	May	6,163,110	678	18.9	152
	Jun	6,113,360	676	18.8	151
	Jul	6,898,130	766	21.2	150
	Aug	6,077,040	679	18.6	149
	Sep	6,544,440	742	20.1	147
	Oct	6,520,970	735	20.0	148
	Nov	6,270,000	709	19.2	147
	Dec	6,403,000	735	19.6	145

IW-19 Total Gallons Pumped:	78,330,450
IW-19 Total Acre-Feet Pumped:	240
IW-19 Average Yield Rate (gpm):	151
IW-19 % Run Time:	98.8%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-20	Jan	903,400	437	2.8	34
	Feb	1,536,500	592	4.7	43
	Mar	1,669,000	777	5.1	36
	Apr	1,639,300	737	5.0	37
	May	1,327,000	645	4.1	34
	Jun	1,211,900	637	3.7	32
	Jul	333,900	174	1.0	32
	Aug	1,540,800	522	4.7	49
	Sep	2,156,800	745	6.6	48
	Oct	2,052,700	732	6.3	47
	Nov	1,871,400	710	5.7	44
	Dec	1,800,800	736	5.5	41

IW-20 Total Gallons Pumped:	18,049,500
IW-20 Total Acre-Feet Pumped:	55
IW-20 Average Yield Rate (gpm):	40
IW-20 % Run Time:	85.0%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-21	Jan	5,500,080	784	16.9	117
	Feb	4,581,890	643	14.1	119
	Mar	4,992,950	730	15.3	114
	Apr	4,780,500	740	14.7	108
	May	4,226,600	647	13.0	109
	Jun	4,266,910	637	13.1	112
	Jul	5,125,900	765	15.7	112
	Aug	4,451,710	672	13.7	110
	Sep	4,867,350	743	14.9	109
	Oct	4,583,080	697	14.1	110
	Nov	4,272,210	654	13.1	109
	Dec	4,743,000	736	14.6	107

IW-21 Total Gallons Pumped:	56,392,160
IW-21 Total Acre-Feet Pumped:	173
IW-21 Average Yield Rate (gpm):	111
IW-21 % Run Time:	96.4%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-25	Jan				
	Feb				
	Mar				
	Apr	9,795,000	329	30.1	496
	May	20,250,000	695	62.1	485
	Jun	20,587,000	716	63.2	479
	Jul	20,585,000	715	63.2	481
	Aug	27,215,000	641	83.5	708
	Sep	11,337,000	718	34.2	259
	Oct	20,651,000	745	63.4	462
	Nov	19,667,000	713	60.4	460
	Dec	20,371,000	731	62.5	465

IW-25 Total Gallons Pumped:	170,236,000
IW-25 Total Acre-Feet Pumped:	522
IW-25 Average Yield Rate (gpm):	473
IW-25 % Run Time:	88.5%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-26	Jan				
	Feb				
	Mar				
	Apr	7,586,000	291	23.3	434
	May	16,568,000	695	50.8	397
	Jun	16,094,000	720	49.4	373
	Jul	15,330,000	699	47.0	366
	Aug	14,811,000	667	45.5	370
	Sep	15,216,000	669	46.7	379
	Oct	14,543,000	631	44.6	384
	Nov	15,041,000	646	46.2	388
	Dec	15,905,000	675	48.8	393

IW-26 Total Gallons Pumped:	131,094,000
IW-26 Total Acre-Feet Pumped:	402
IW-26 Average Yield Rate (gpm):	384
IW-26 % Run Time:	65.0%

Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-27	Jan				
	Feb				
	Mar				
	Apr	4,857,000	324	14.9	250
	May	10,304,000	701	31.6	245
	Jun	10,443,000	720	32.0	242
	Jul	10,273,000	713	31.5	240
	Aug	9,470,000	681	29.1	232
	Sep	8,896,000	718	27.3	206
	Oct	6,922,000	635	21.2	182
	Nov	6,400,000	655	19.6	163
	Dec	4,909,000	566	15.1	145

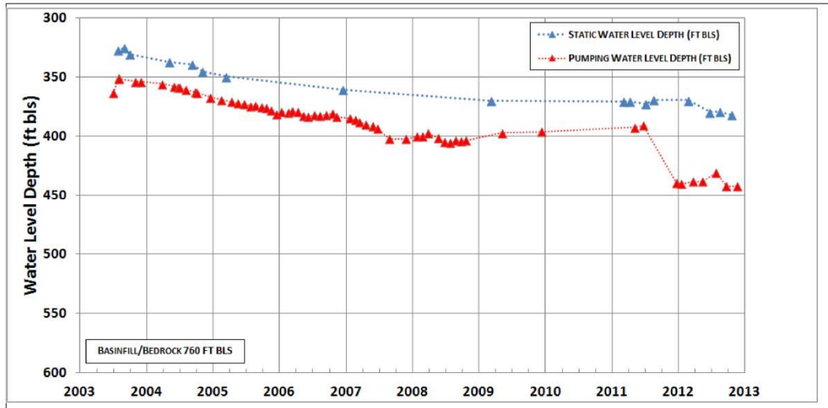
IW-27 Total Gallons Pumped:	72,472,000
IW-27 Total Acre-Feet Pumped:	222
IW-27 Average Yield Rate (gpm):	211
IW-27 % Run Time:	65.2%

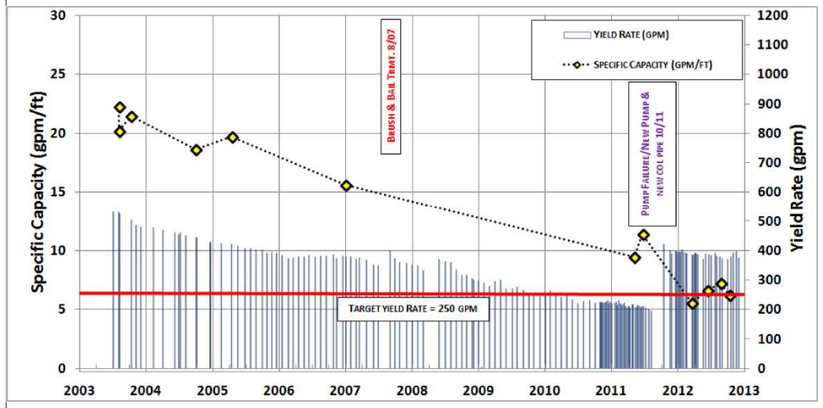
Well	Month	Gallons Pumped	Hours	Yield (Acrefeet)	Ave. Yield Rate (gpm)
IW-28	Jan				
	Feb				
	Mar				
	Apr	9,493,000	329	29.1	481
	May	19,154,000	693	58.8	461
	Jun	6,841,000	261	21.0	437
	Jul	15,978,000	617	49.0	432
	Aug	17,548,000	705	53.8	415
	Sep	19,048,000	716	58.5	443
	Oct	19,062,000	764	58.5	416
	Nov	17,857,000	695	54.8	428
	Dec	18,936,000	711	58.1	444

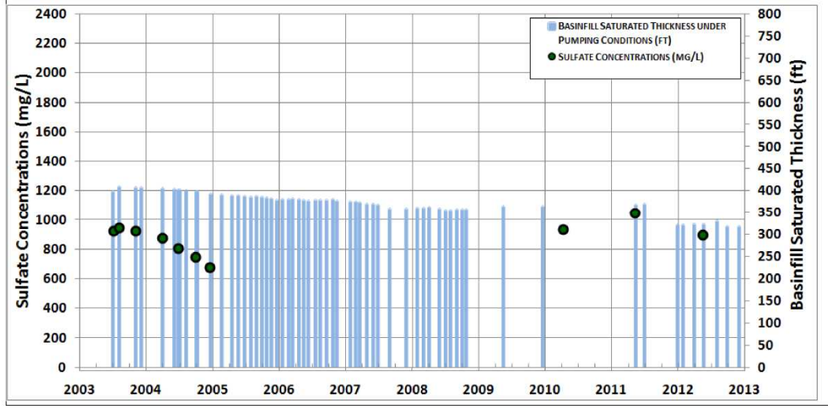
IW-28 Total Gallons Pumped:	143,917,000
IW-28 Total Acre-Feet Pumped:	442
IW-28 Average Yield Rate (gpm):	437
IW-28 % Run Time:	62.7%

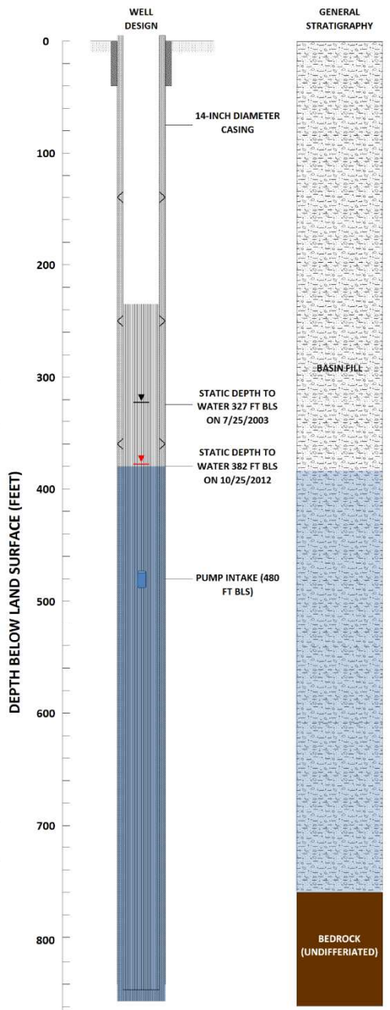
ATTACHMENT B

SIERRITA INTERCEPTOR WELL FIELD DATA PLOTS









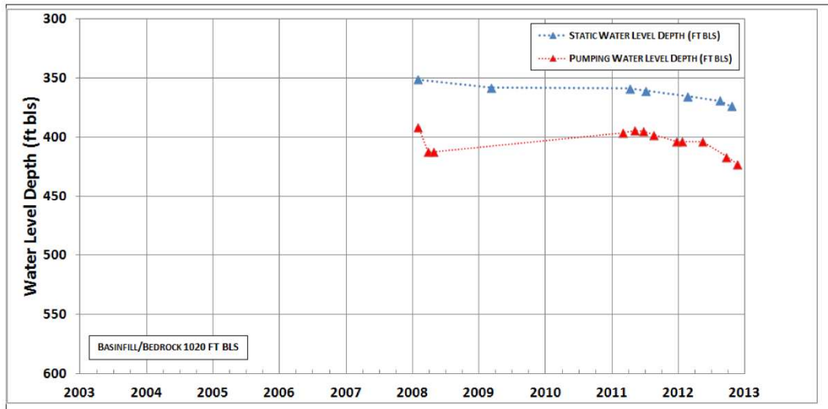
BasinWells ASSOCIATES PLLC
SPECIALISTS IN GROUNDWATER DEVELOPMENT

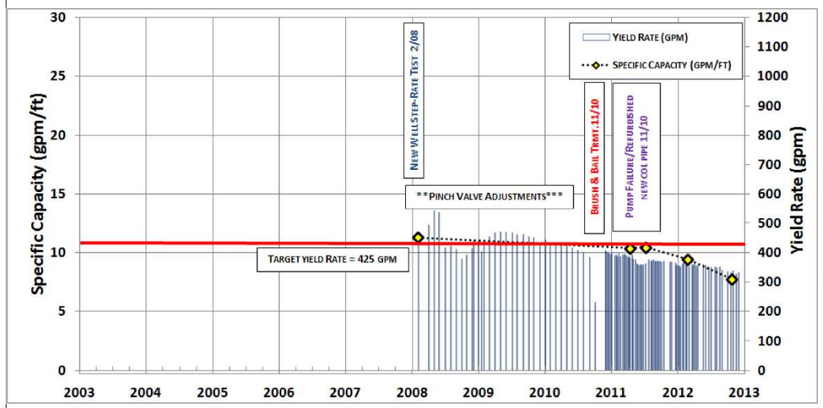
FREEPORT-MCMORAN COPPER & GOLD

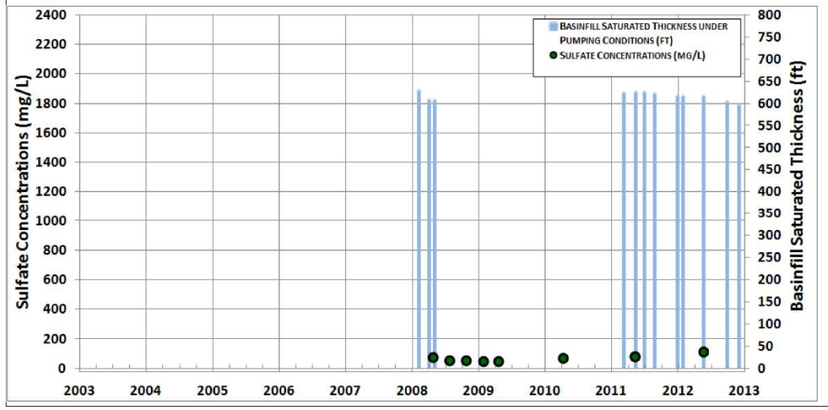
VERSION DATE: JANUARY 1, 2013

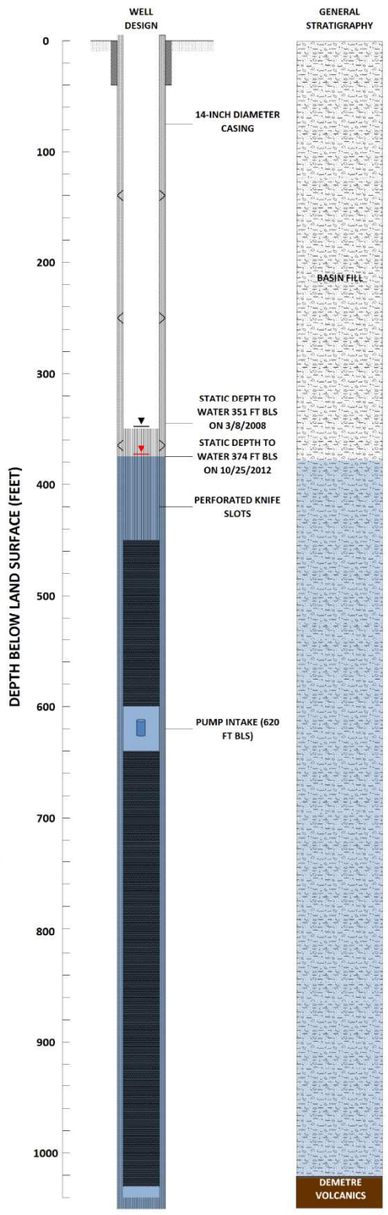
IW-1: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

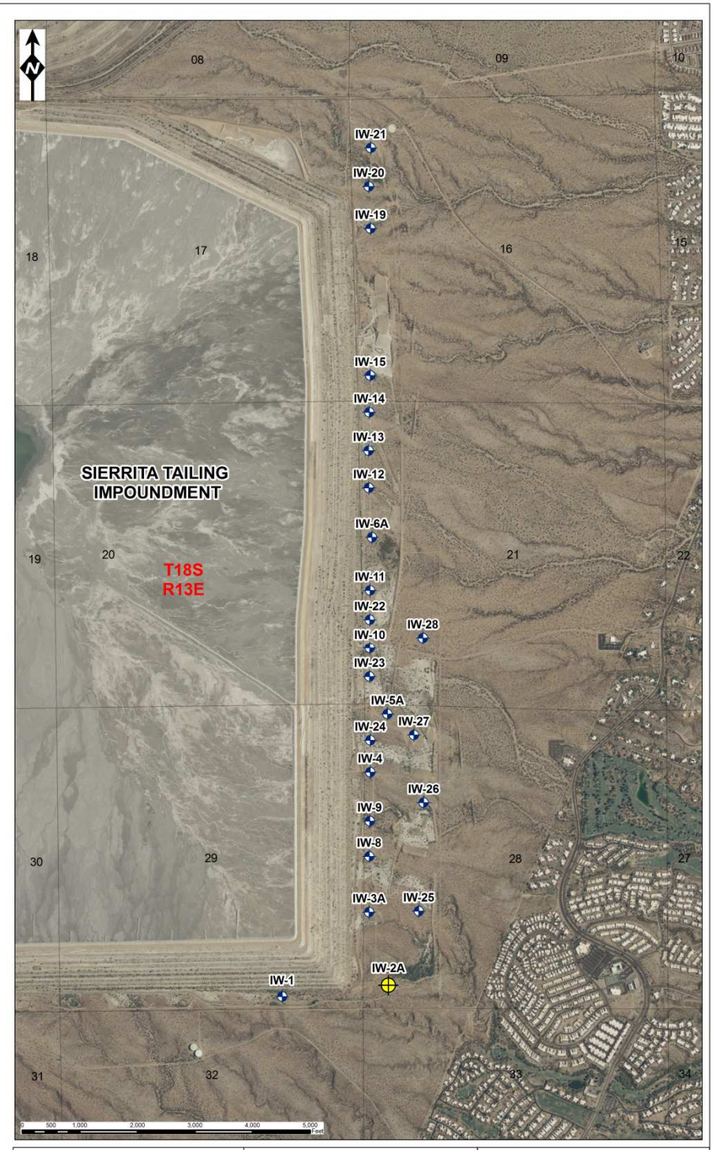
CADASTRAL: D-18-13 29DCD
ADWR REG. NO.: 55-623129
DRILL YEAR: 1978











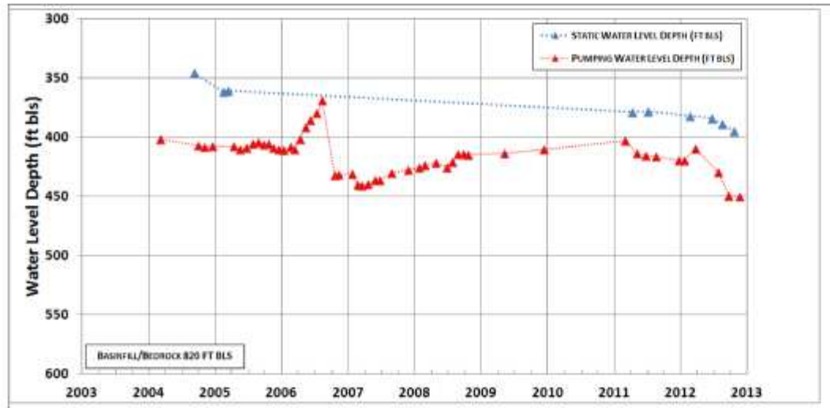
BasinWells ASSOCIATES PLLC
SPECIALISTS IN GROUNDWATER DEVELOPMENT

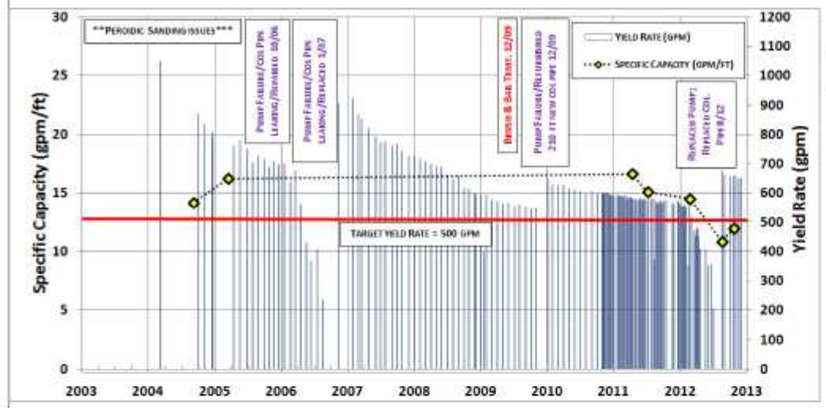
FREEPORT-McMoRan COPPER & GOLD

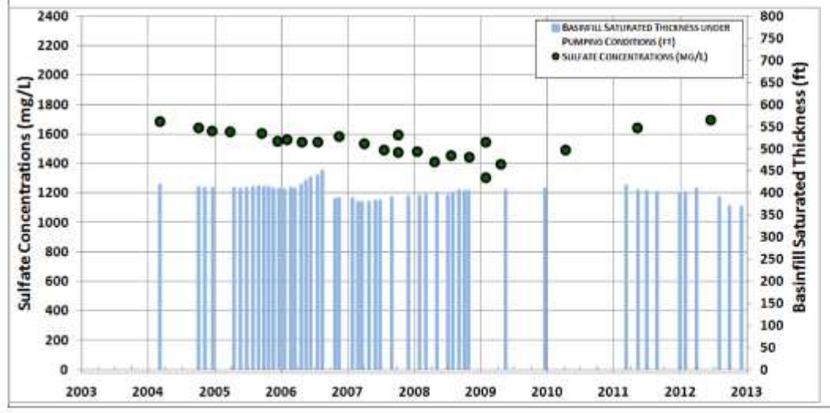
IW-2A: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

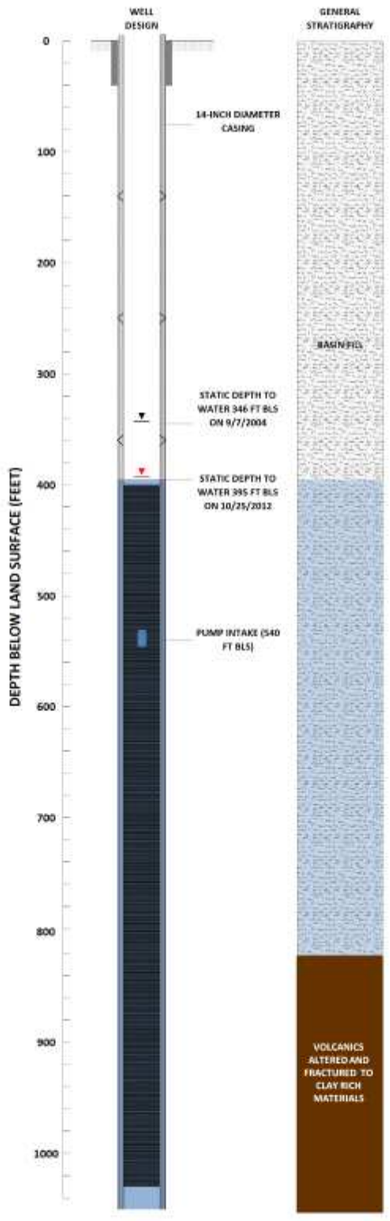
VERSION DATE: JANUARY 1, 2013

CADASTRAL: D-18-13 28CCC
ADWR REG. NO.: 55-216464
DRILL YEAR: 2008









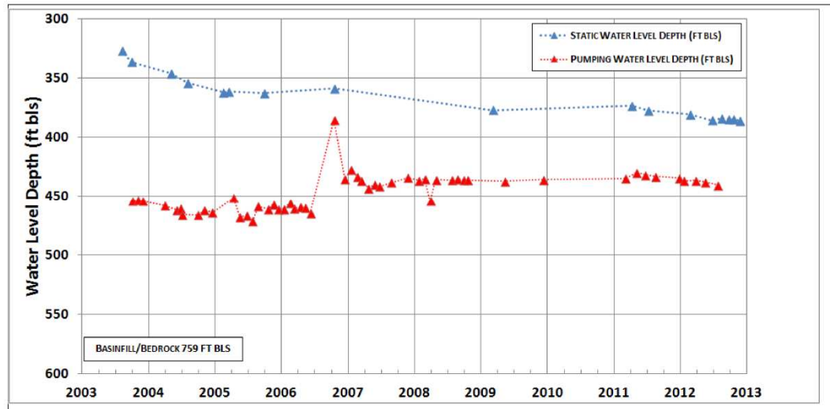
BasinWells ASSOCIATES PLLC

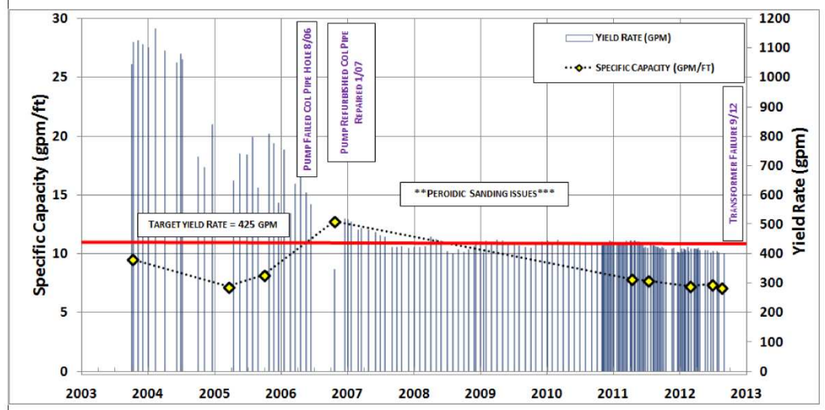
FREEPORT-McMoRan COPPER & GOLD

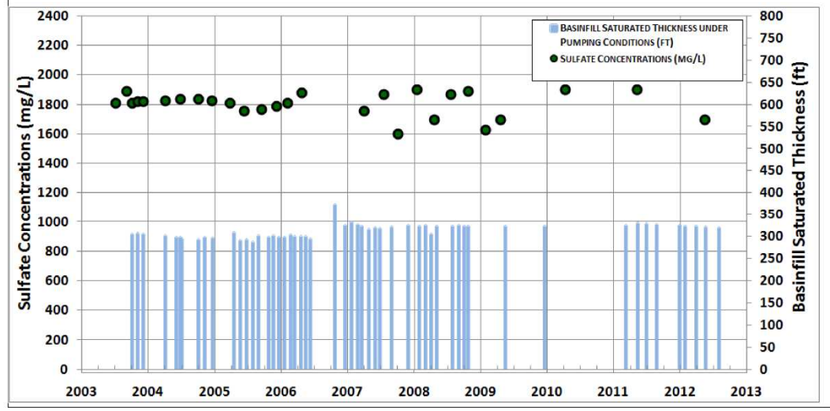
IW-3A: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

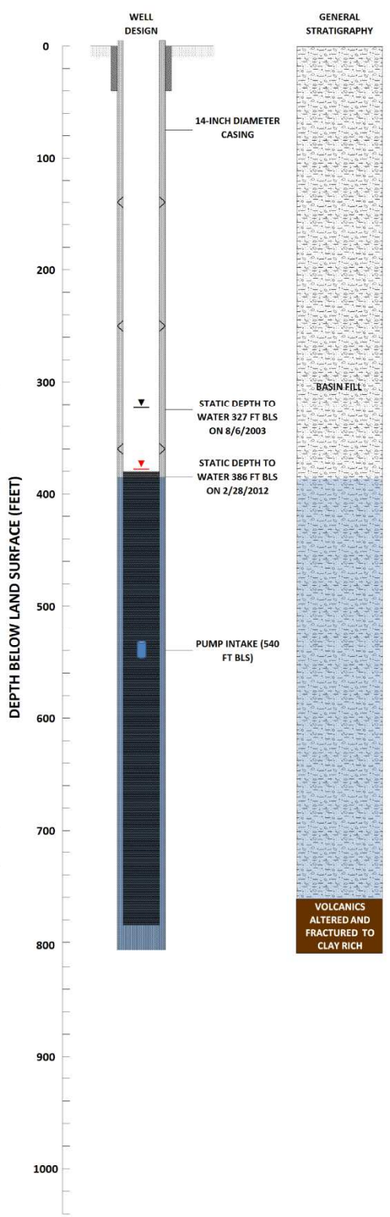
VERSION DATE: JANUARY 1, 2013

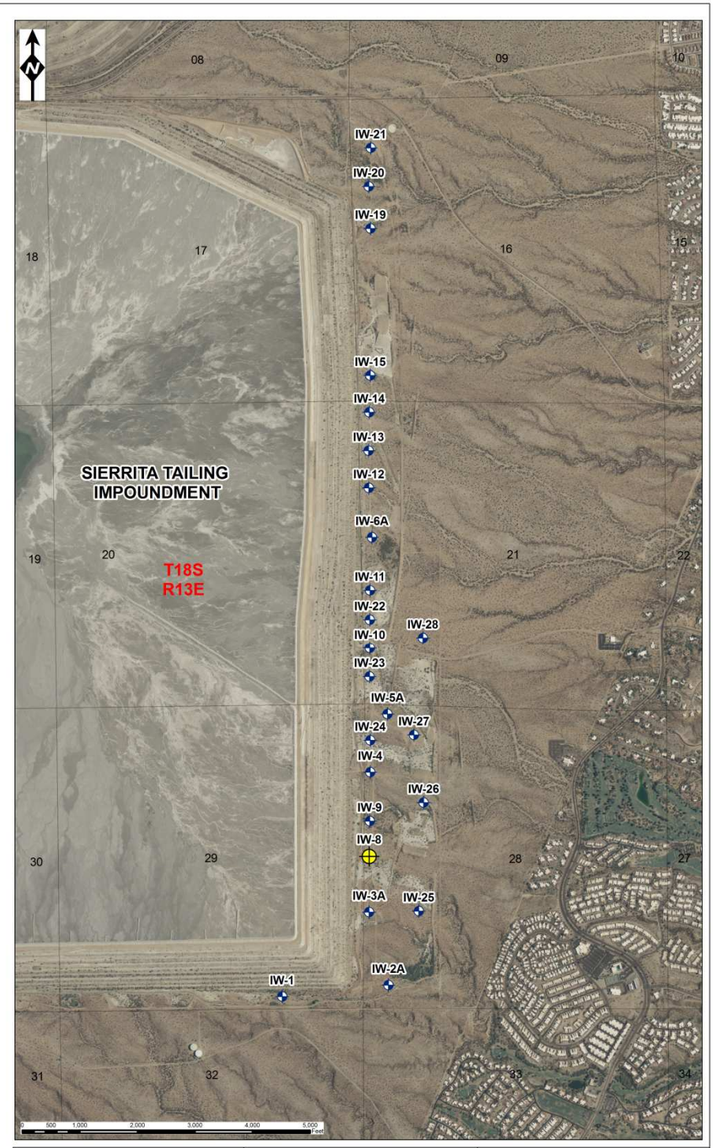
CADASTRAL: D-18-13 28CBC
ADWR REG. NO.: 55-201732
DRILL YEAR: 2004











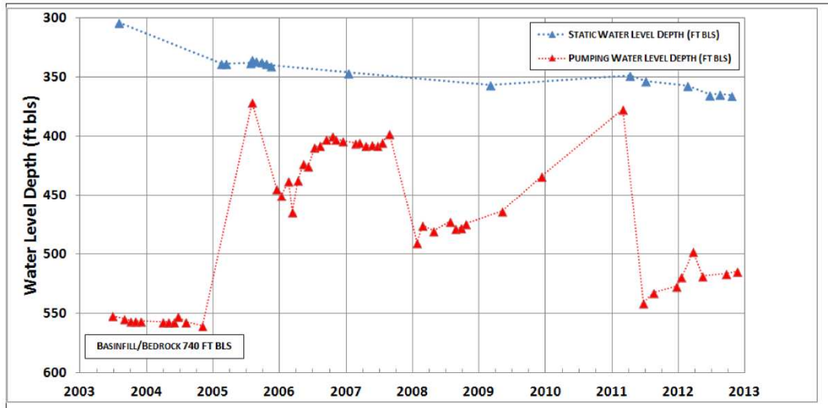
BasinWells ASSOCIATES PLLC
SPECIALISTS IN GROUNDWATER DEVELOPMENT

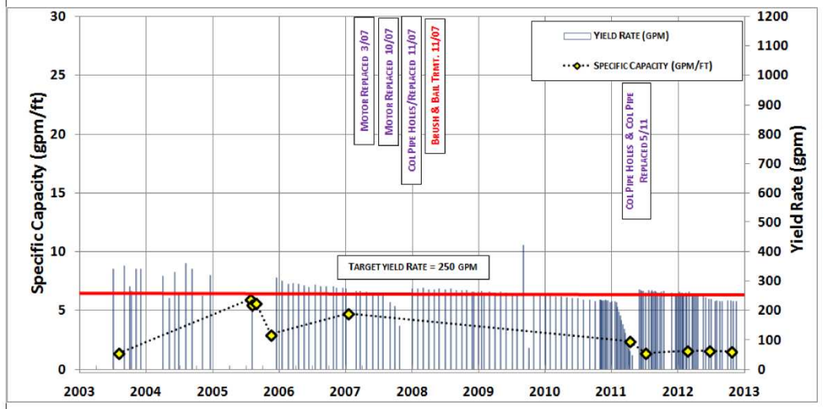
FREEPORT-McMoRan COPPER & GOLD

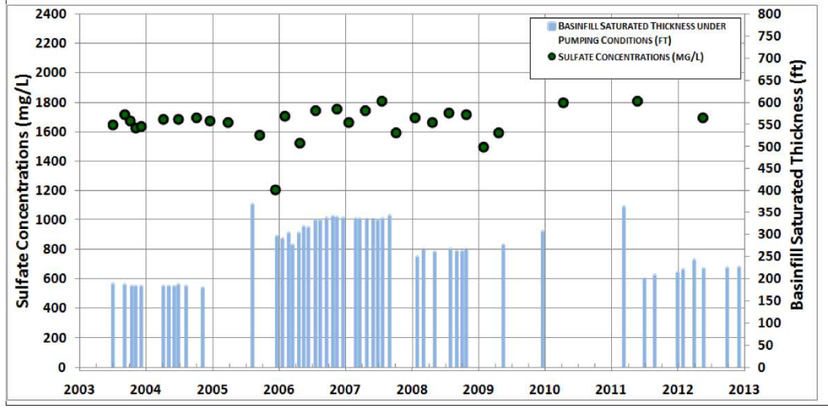
IW-8: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

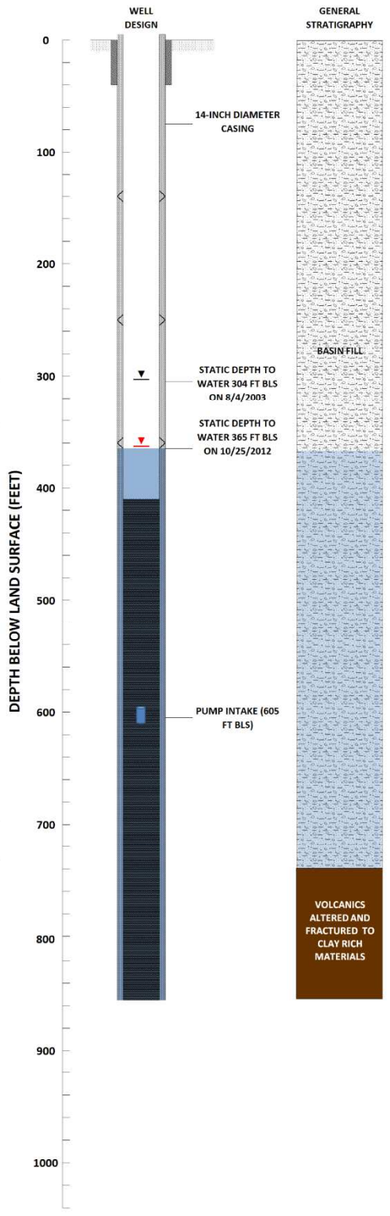
VERSION DATE: JANUARY 1, 2013

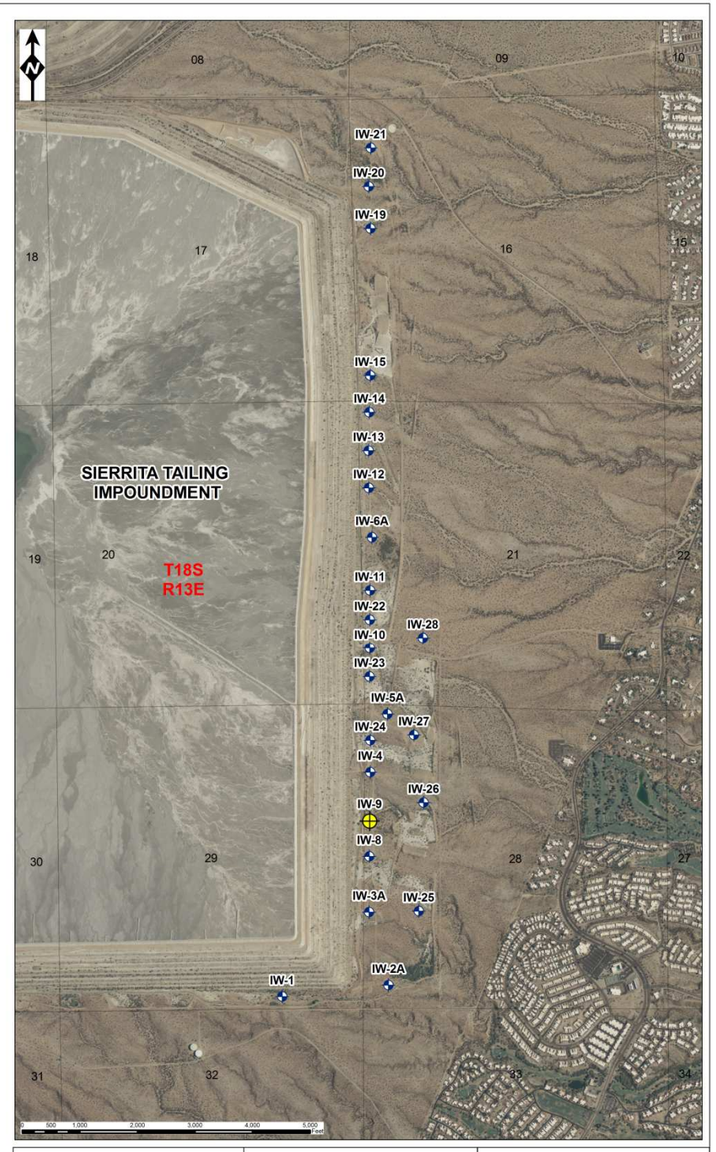
CADASTRAL: D-18-13 28BCC
ADWR REG. NO.: 55-508236
DRILL YEAR: 1984











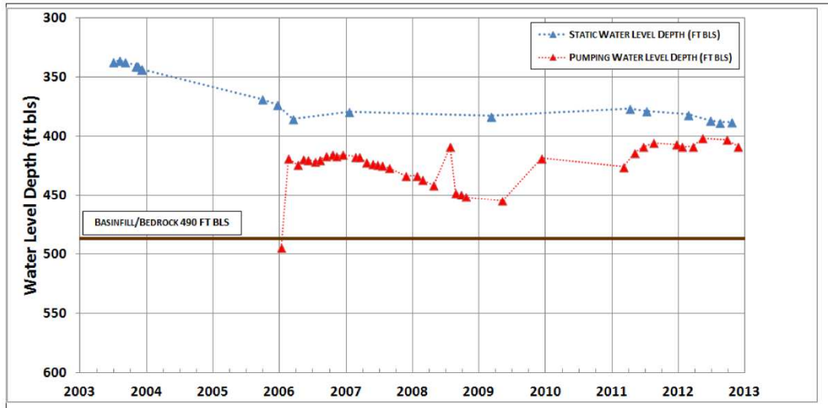
BasinWells ASSOCIATES PLLC
SPECIALISTS IN GROUNDWATER DEVELOPMENT

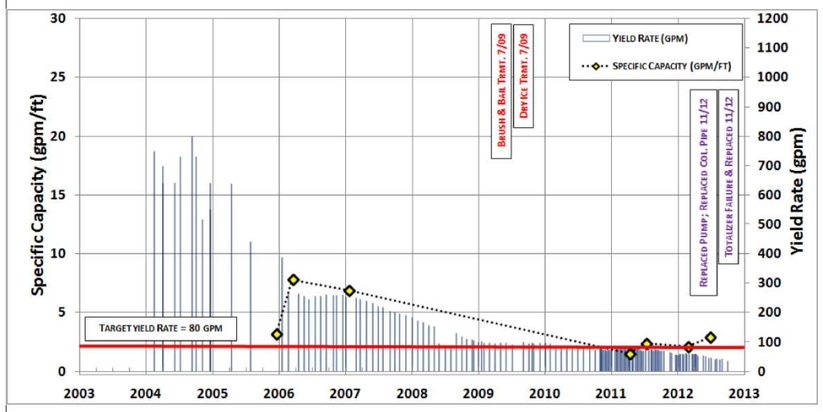
FREEPORT-MCMORAN COPPER & GOLD

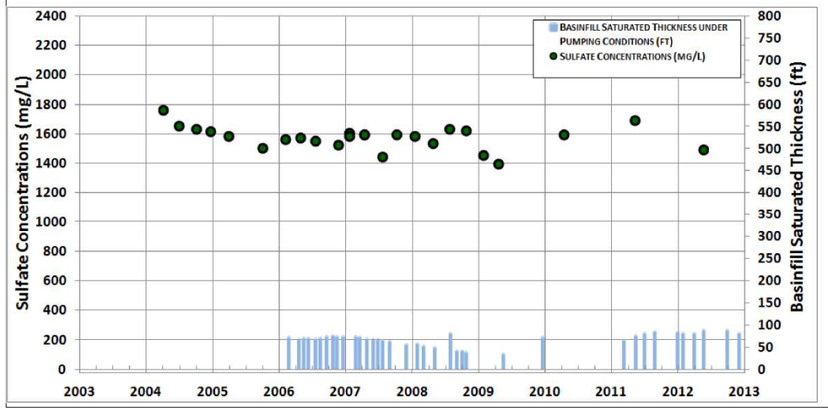
VERSION DATE: JANUARY 1, 2013

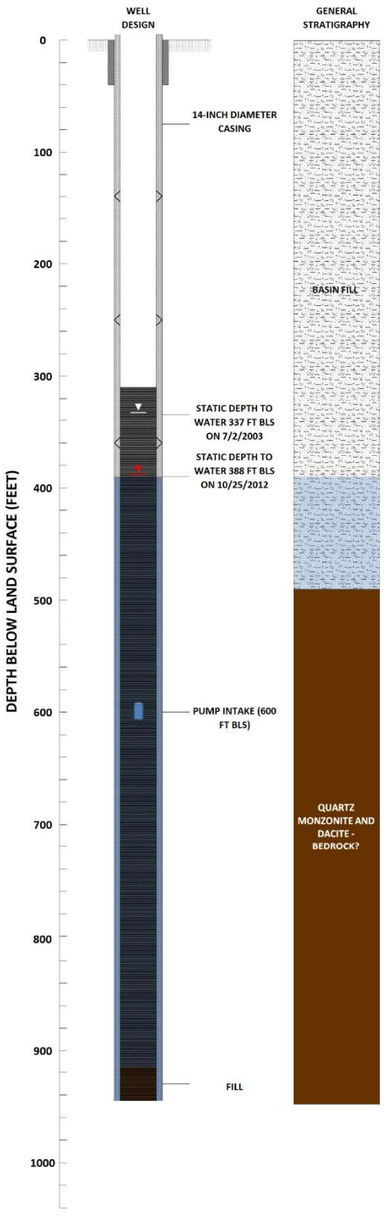
IW-9: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

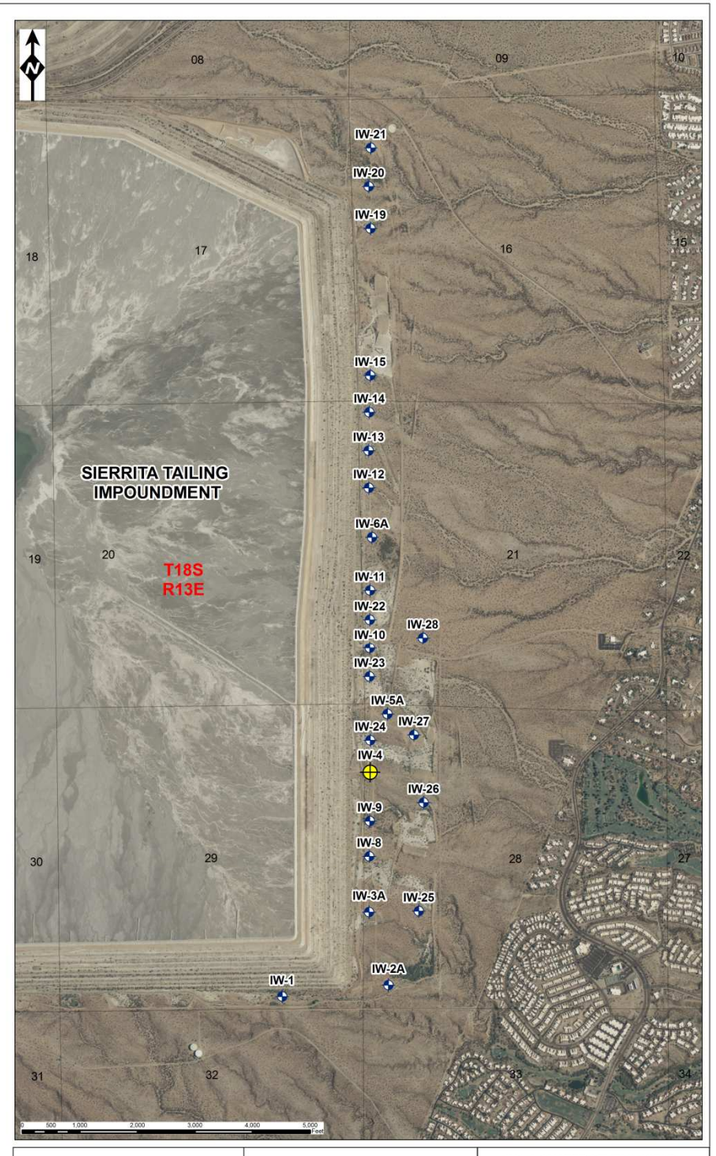
CADASTRAL:D-18-13 28BCC
ADWR REG. NO.: 55-508238
DRILL YEAR: 1984











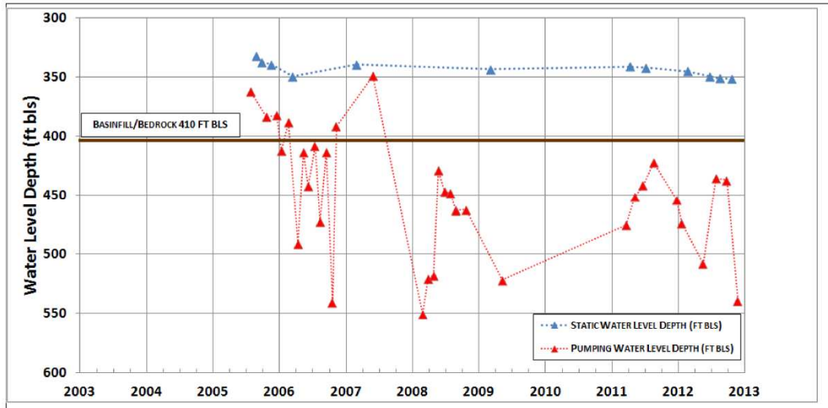
BasinWells ASSOCIATES PLLC
SPECIALISTS IN GROUNDWATER DEVELOPMENT

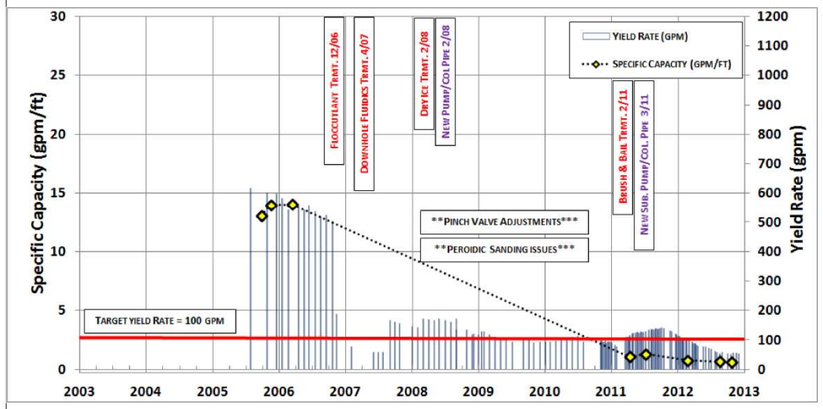
FREEPORT-McMoRan COPPER & GOLD

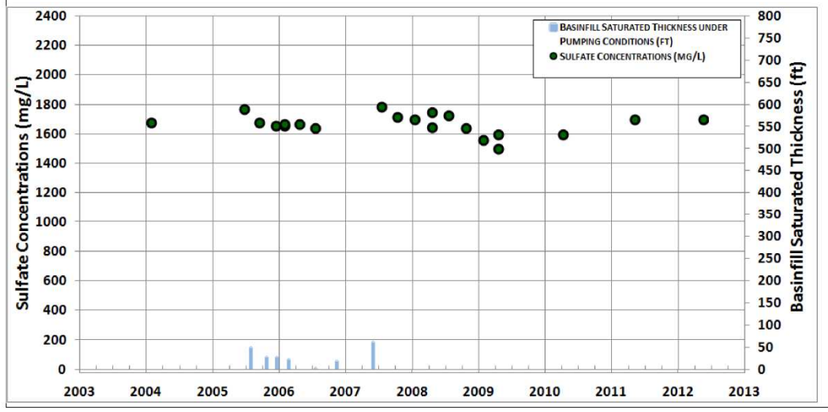
VERSION DATE: JANUARY 1, 2013

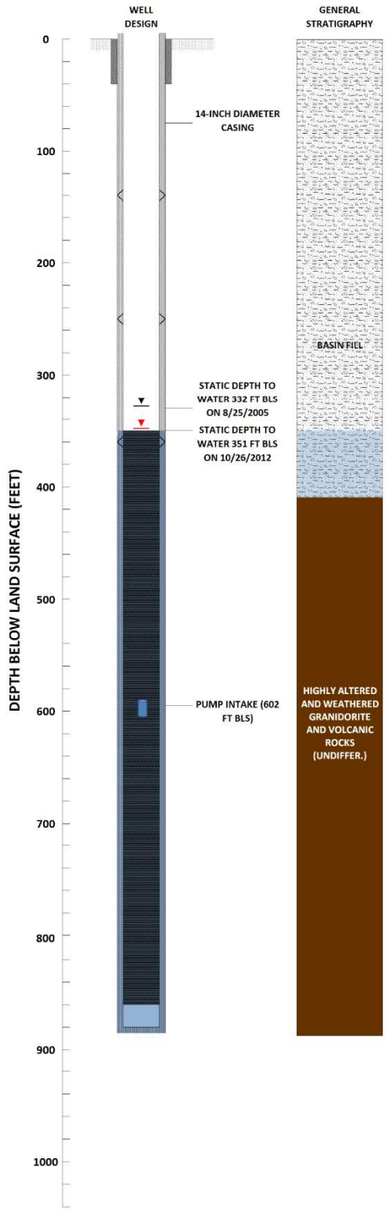
IW-4: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

CADASTRAL:D-18-13 28BCB
ADWR REG. NO.: 55-623132
DRILL YEAR: 1978









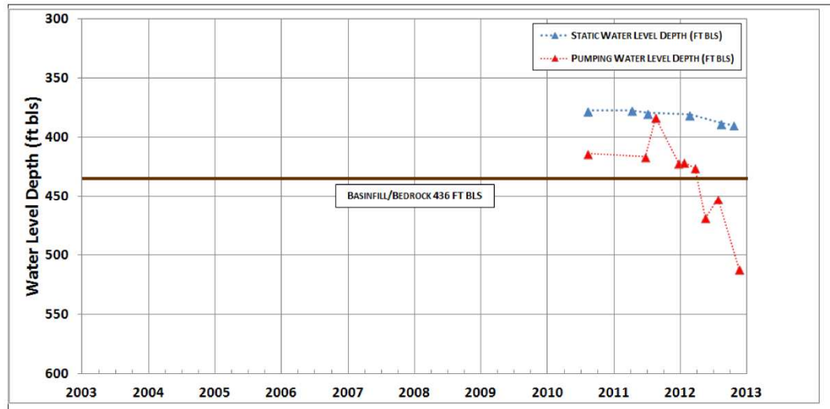
BasinWells ASSOCIATES PLLC
SPECIALISTS IN GROUNDWATER DEVELOPMENT

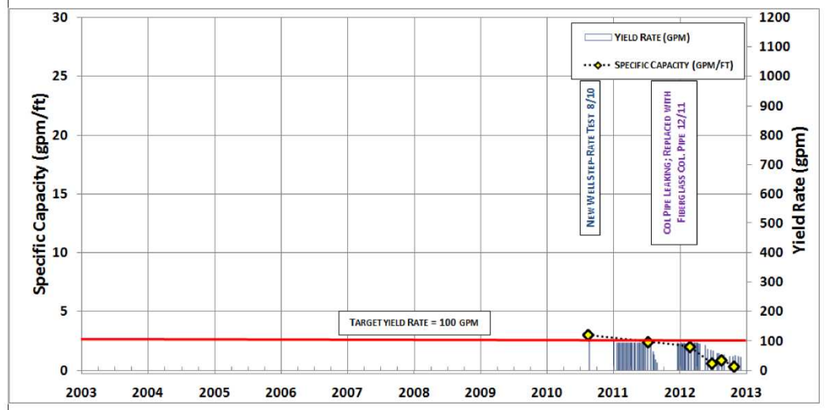
FREEPORT-McMoRan COPPER & GOLD

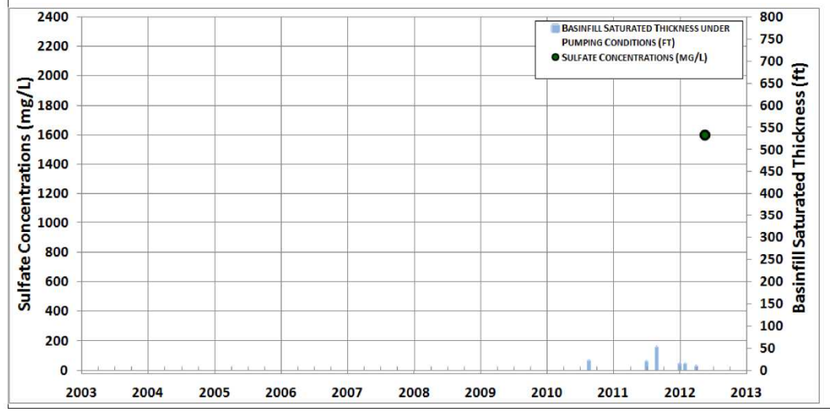
IW-24: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

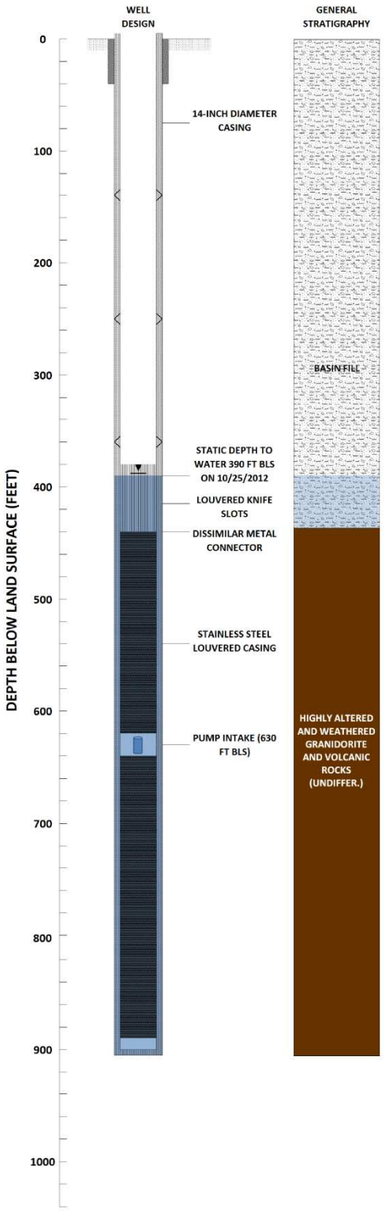
VERSION DATE: JANUARY 1, 2013

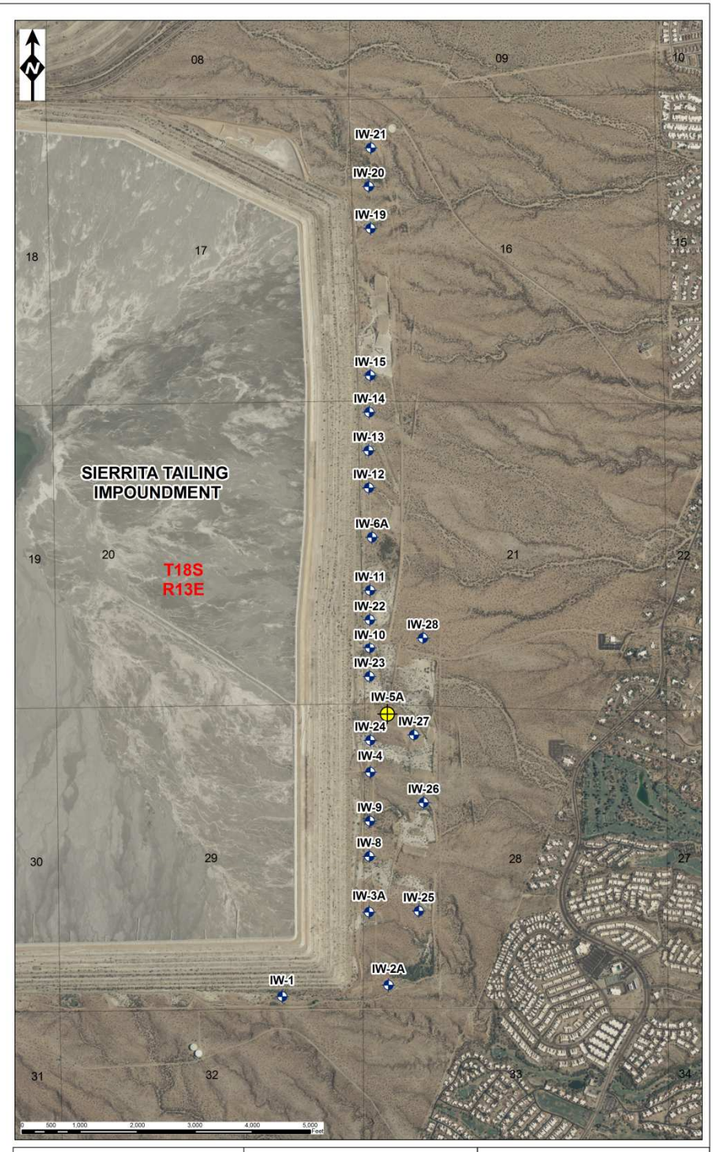
CADASTRAL:D-18-13 28BBB
ADWR REG. NO.: 55-200556
DRILL YEAR: 2004











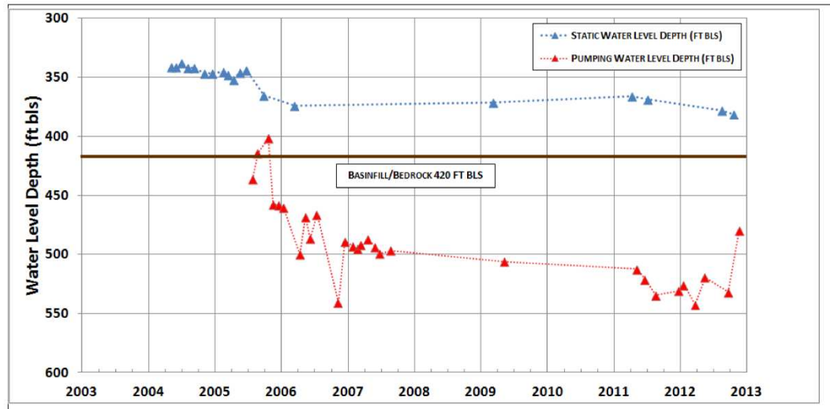
BasinWells ASSOCIATES PLLC
SPECIALISTS IN GROUNDWATER DEVELOPMENT

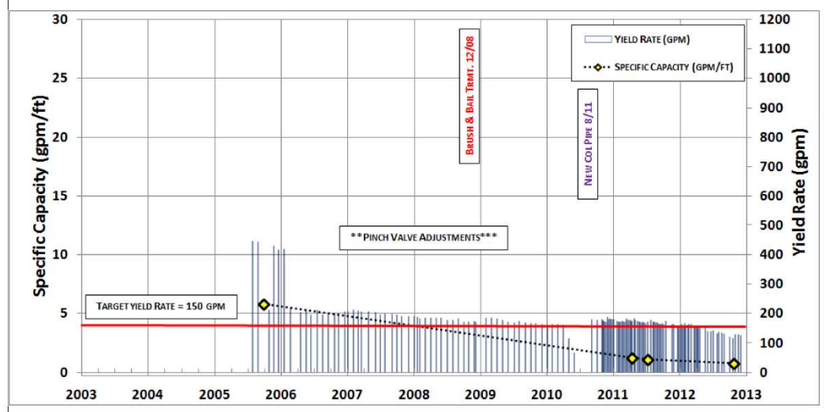
FREEPORT-McMoRan COPPER & GOLD

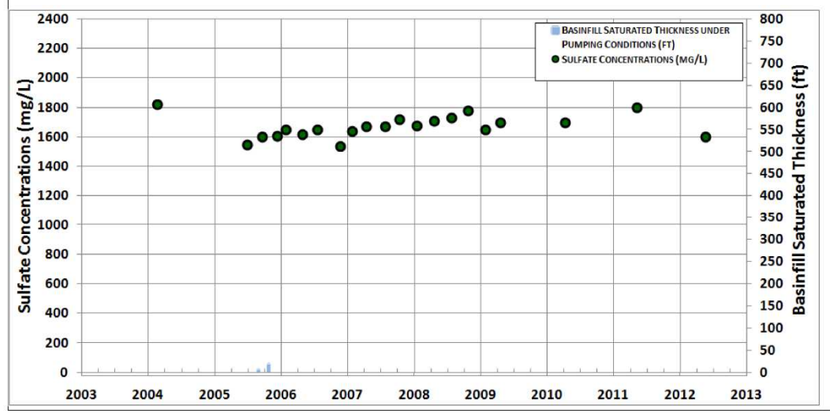
VERSION DATE: JANUARY 1, 2013

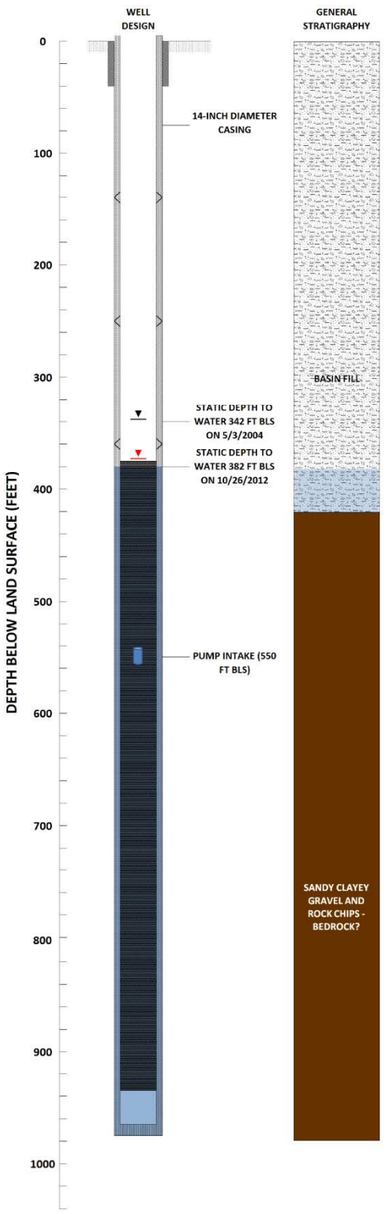
IW-5A: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

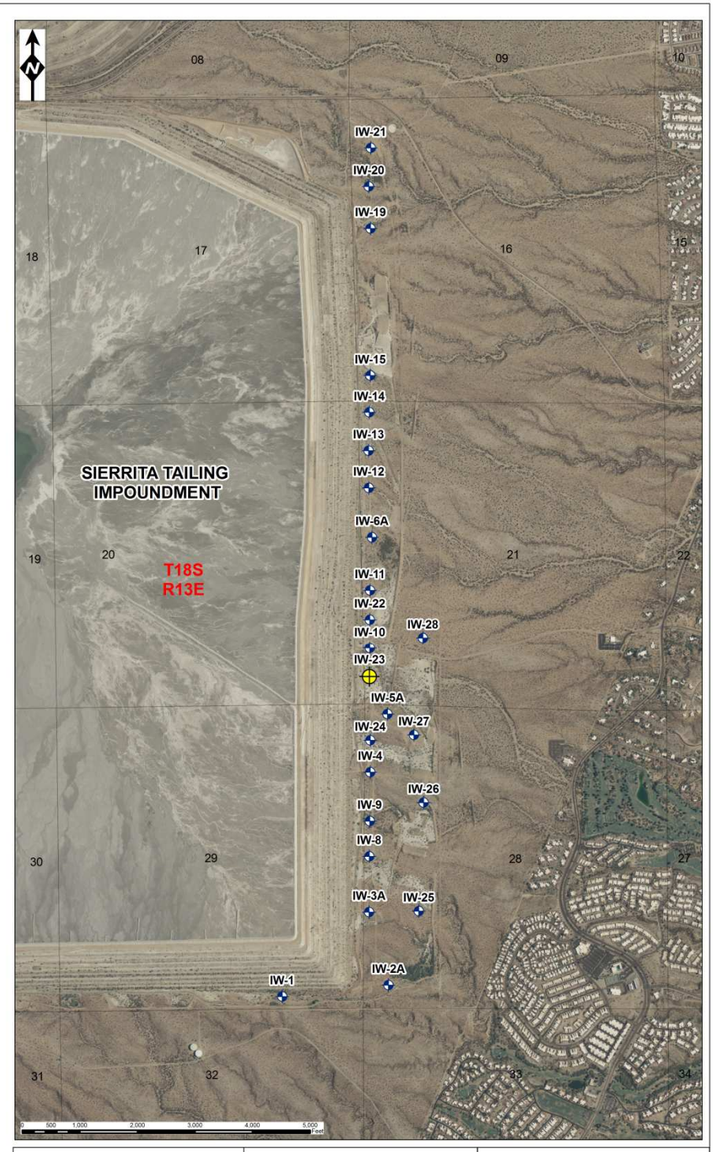
CADASTRAL:D-18-13 28BBB
ADWR REG. NO.: 55-219131
DRILL YEAR: 2010











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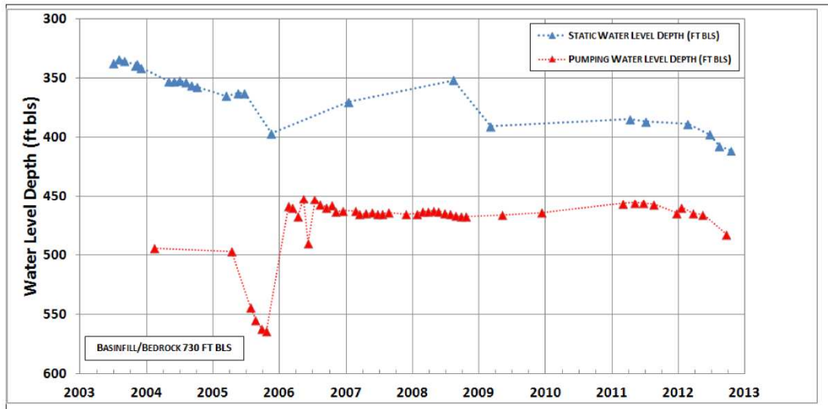
SPECIALISTS IN GROUNDWATER DEVELOPMENT

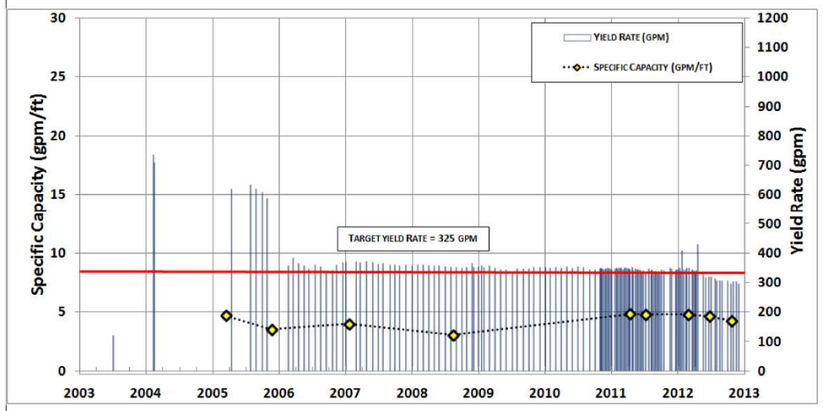
FREEPORT-McMoRan COPPER & GOLD

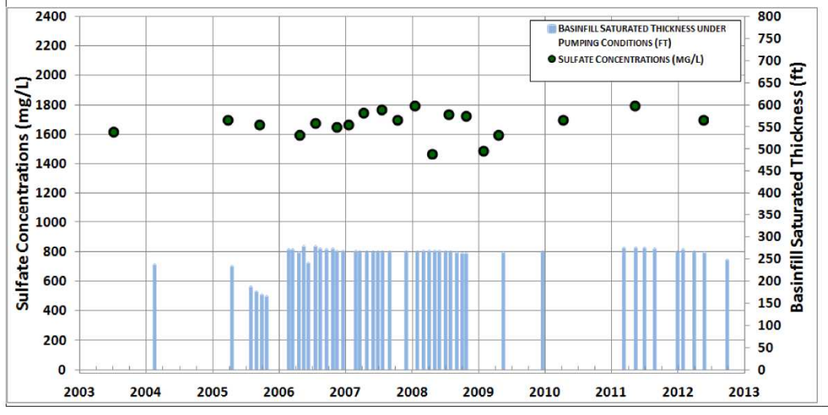
VERSION DATE: JANUARY 1, 2013

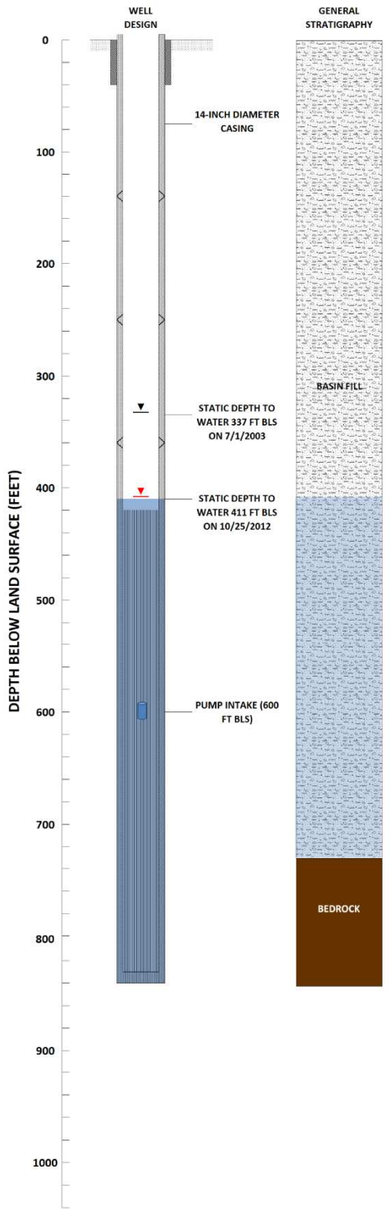
IW-23: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

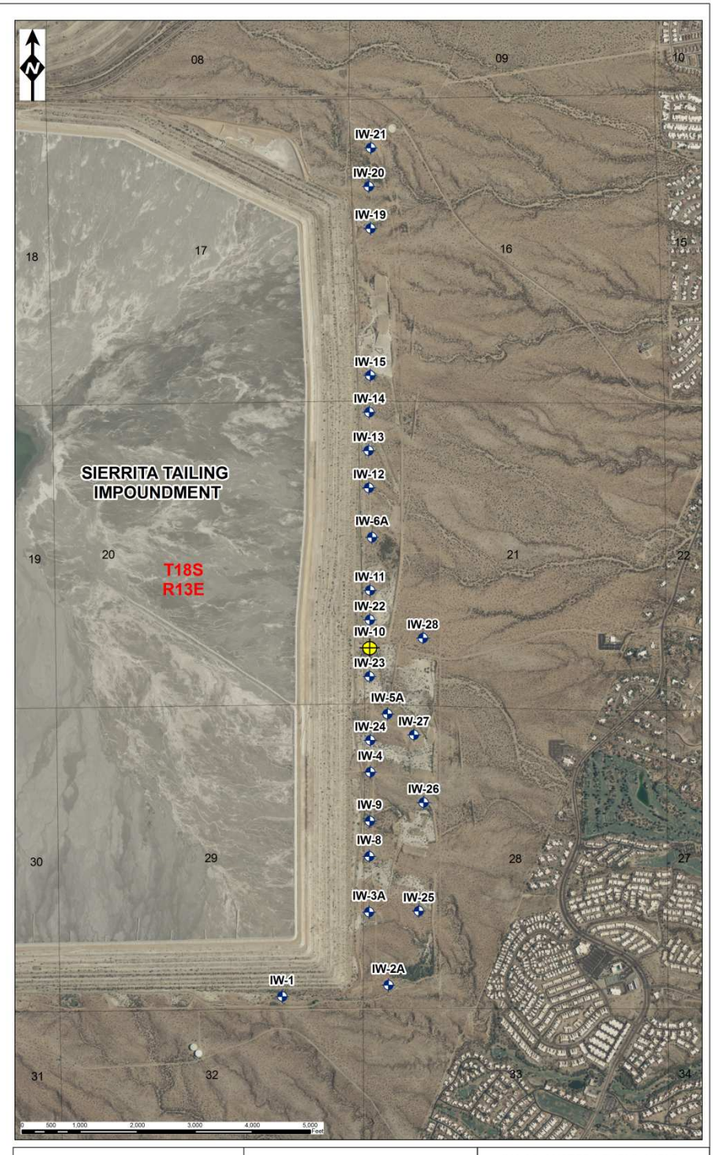
CADASTRAL:D-18-13 21CCB
ADWR REG. NO.: 55-200555
DRILL YEAR: 2004











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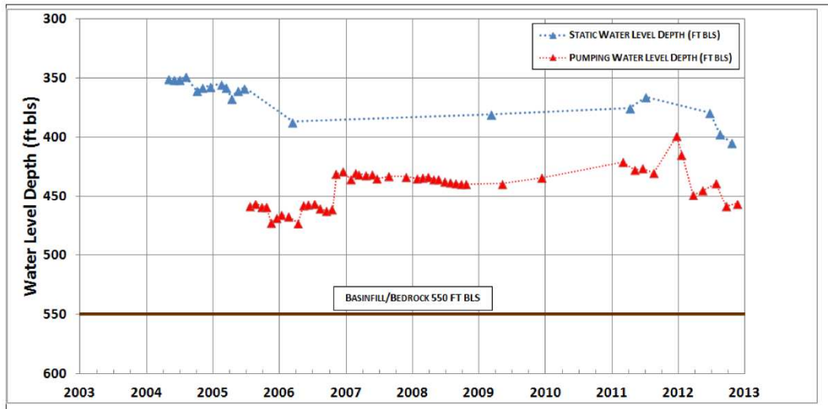
SPECIALISTS IN GROUNDWATER DEVELOPMENT

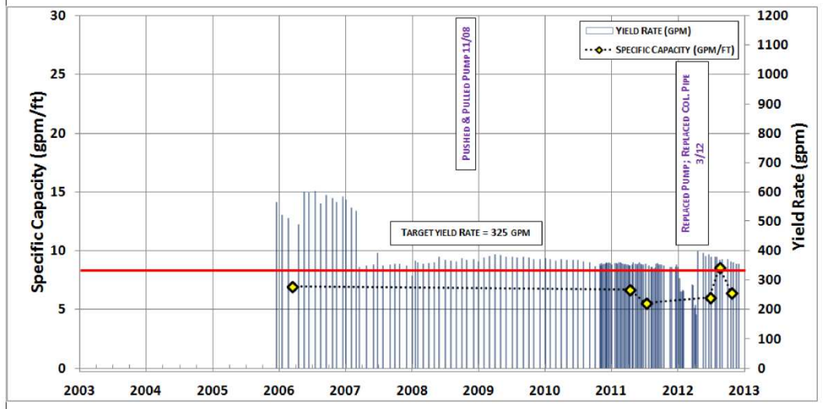
FREEPORT-MCMORAN COPPER & GOLD

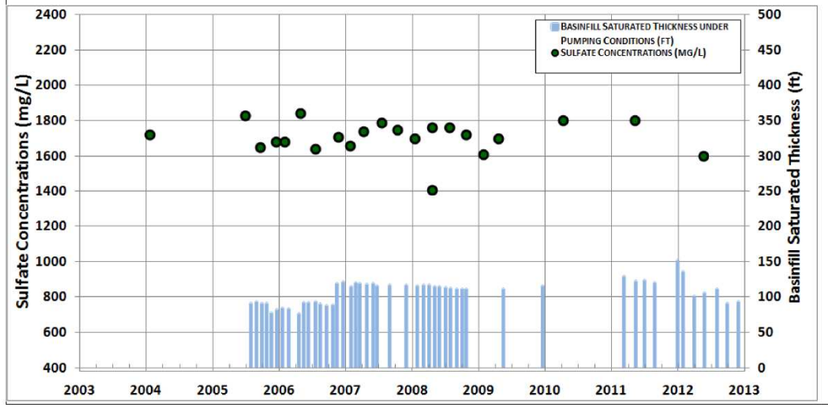
IW-10: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

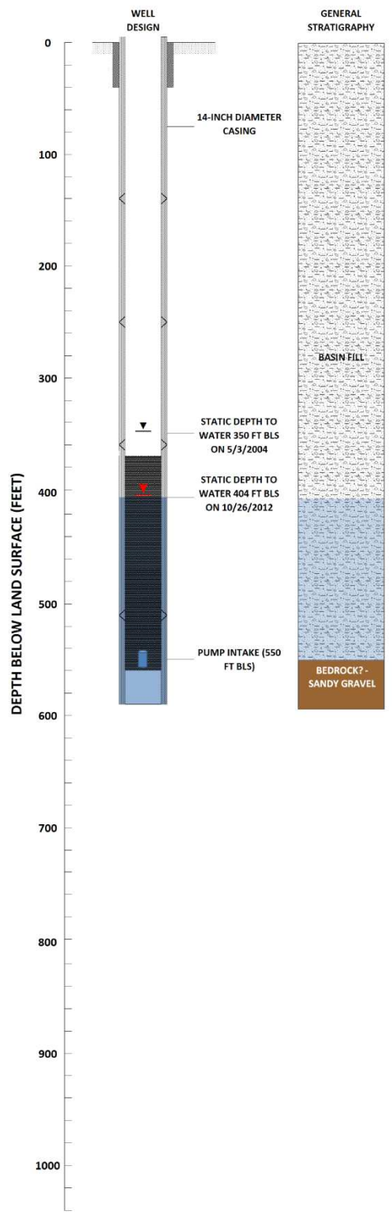
VERSION DATE: JANUARY 1, 2013

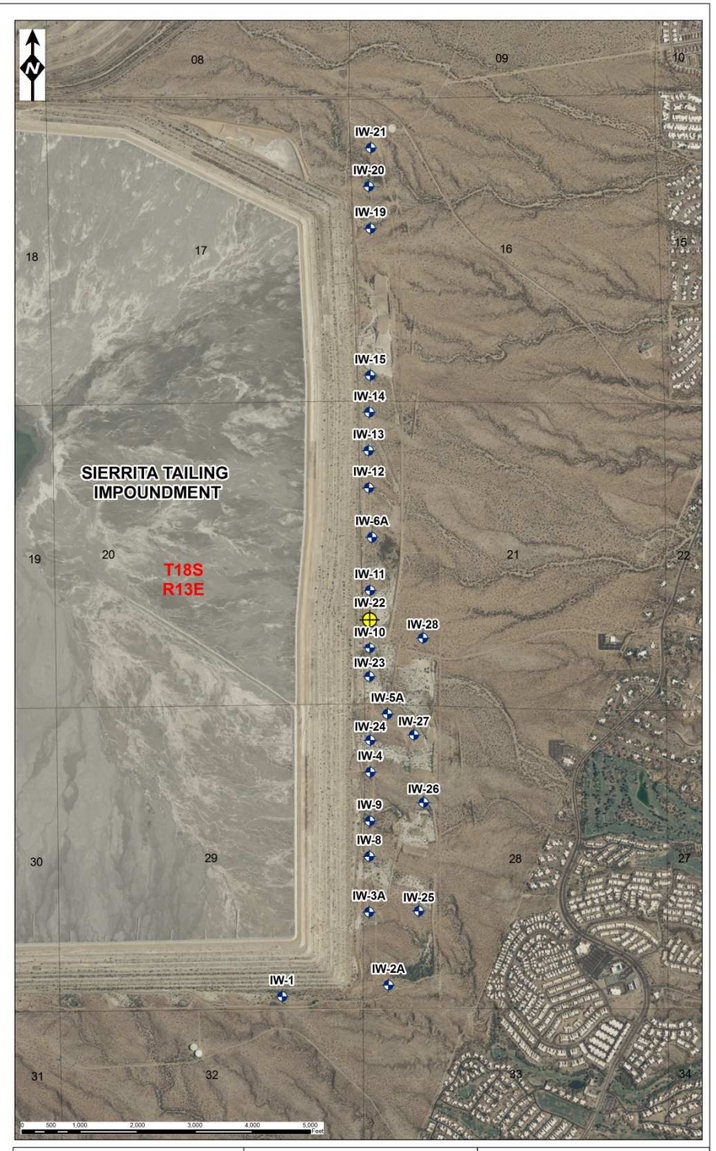
CADASTRAL: D-18-13 21CBC
ADWR REG. NO.: 55-508237
DRILL YEAR: 1984











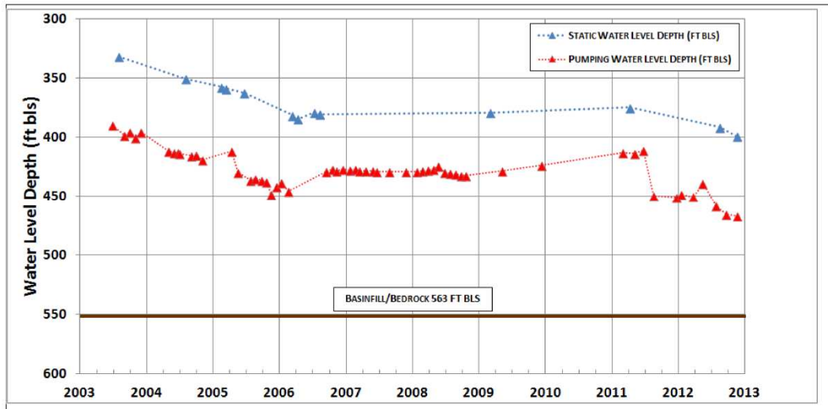
BasinWells ASSOCIATES PLLC
SPECIALISTS IN GROUNDWATER DEVELOPMENT

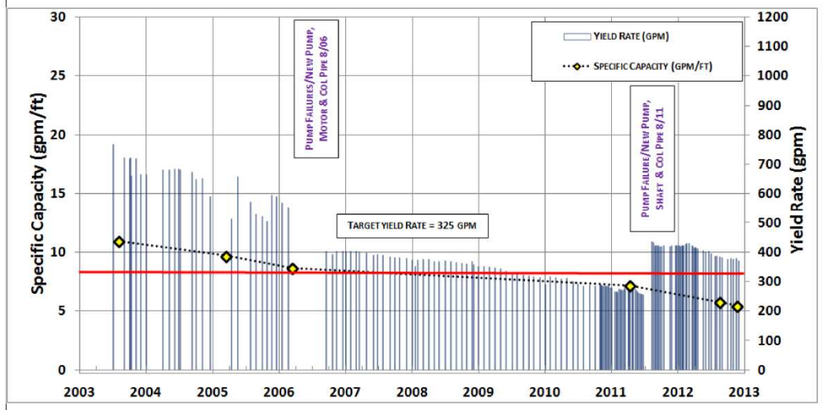
FREEPORT-McMoRan COPPER & GOLD

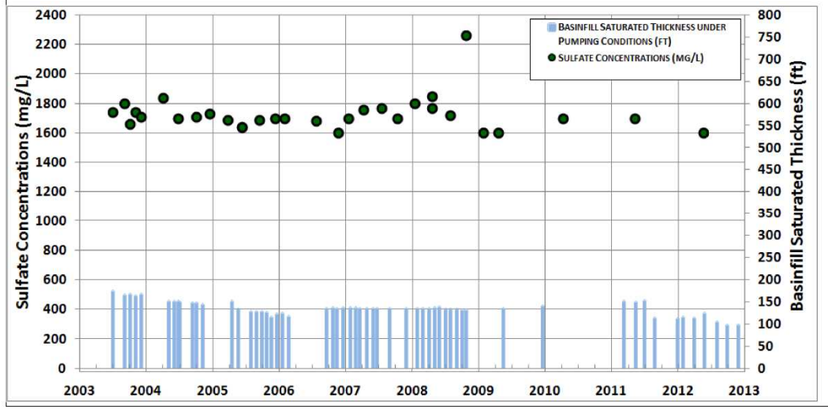
VERSION DATE: JANUARY 1, 2013

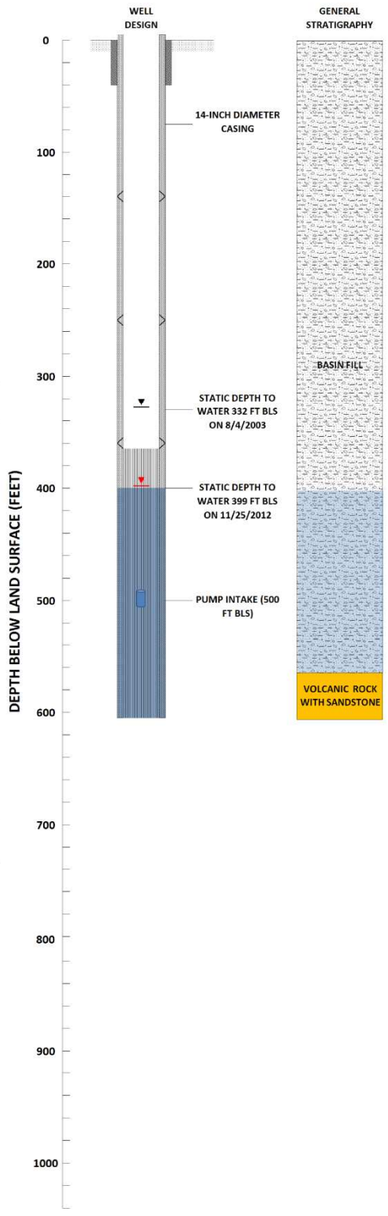
IW-22: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

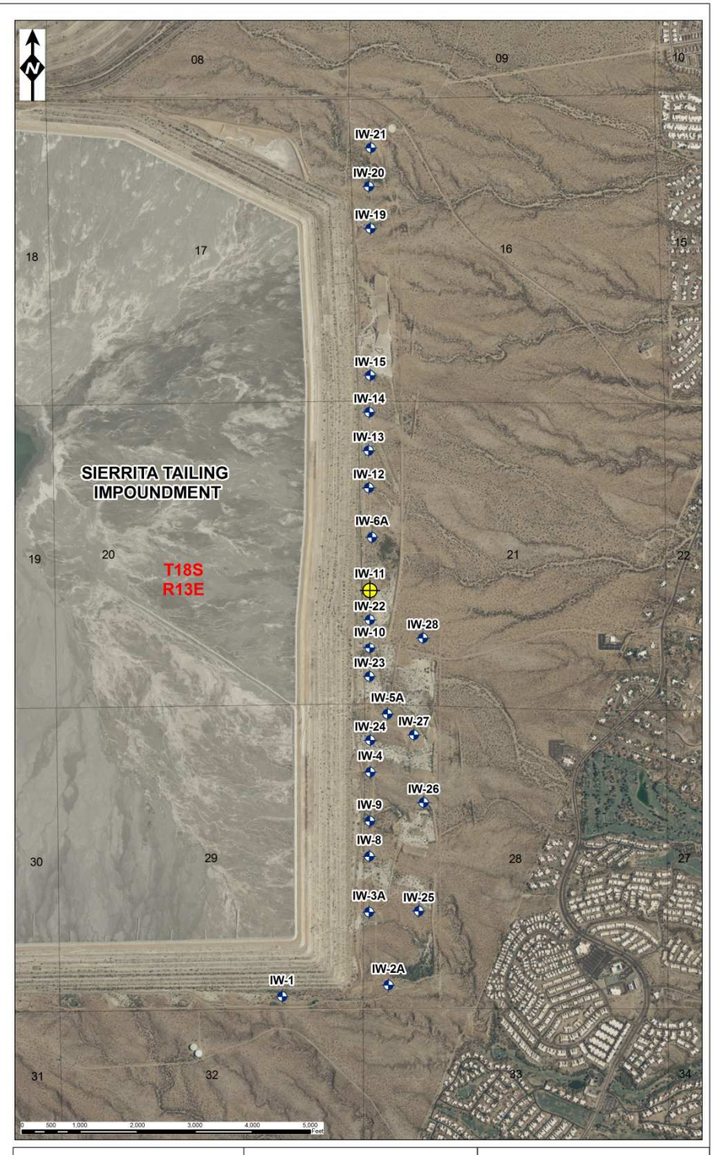
CADASTRAL: D-18-13 21CBC
ADWR REG. NO.: 55-200554
DRILL YEAR: 2004











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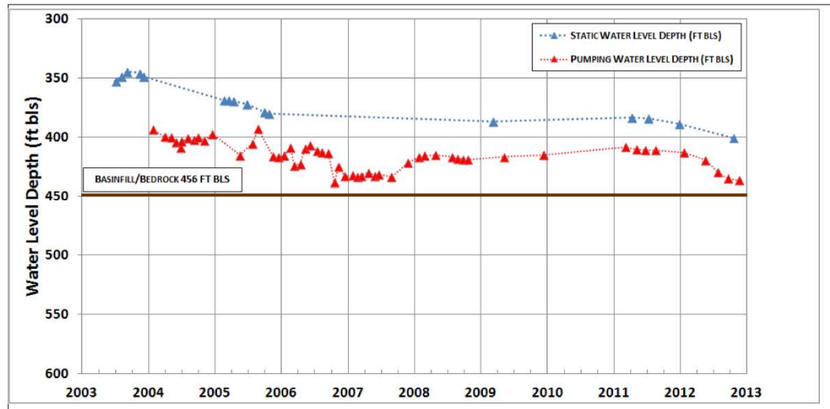
SPECIALISTS IN GROUNDWATER DEVELOPMENT

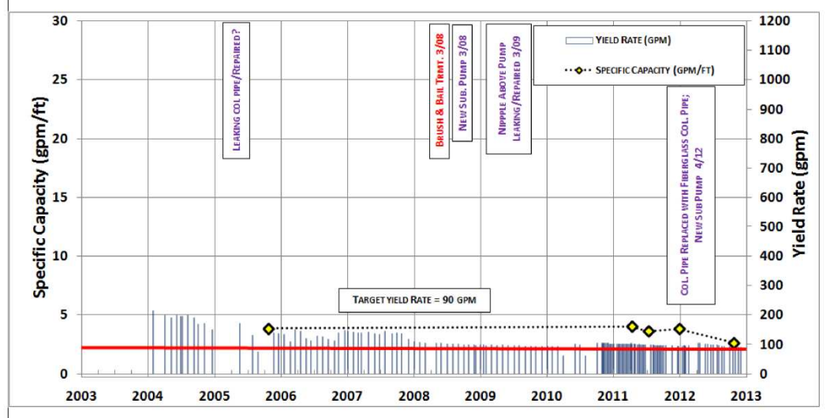
FREEPORT-McMoRan COPPER & GOLD

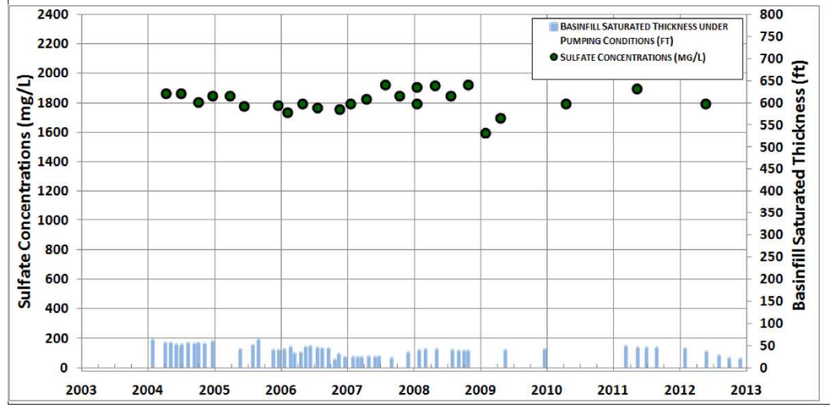
IW-11: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

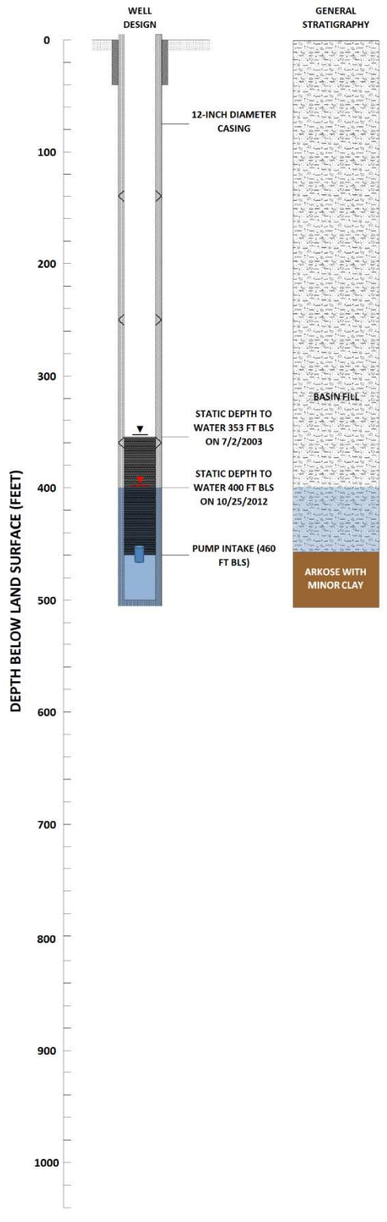
VERSION DATE: JANUARY 1, 2013

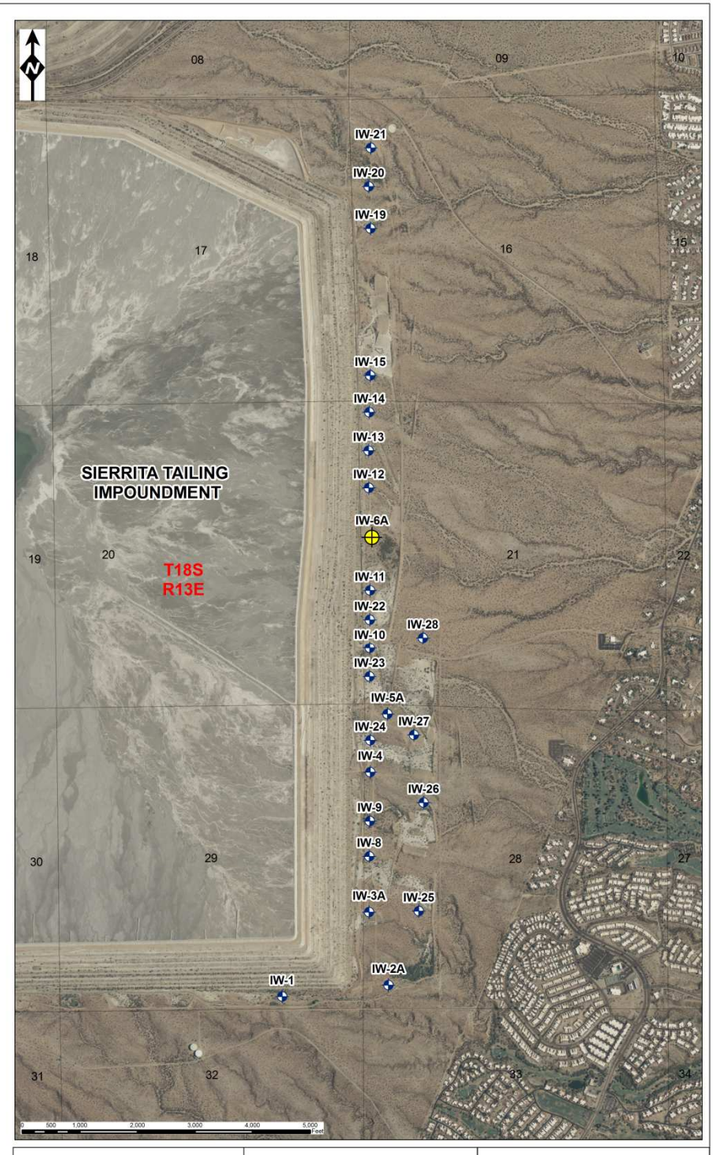
CADASTRAL: D-18-13 21CBC
ADWR REG. NO.: 55-508235
DRILL YEAR: 1984











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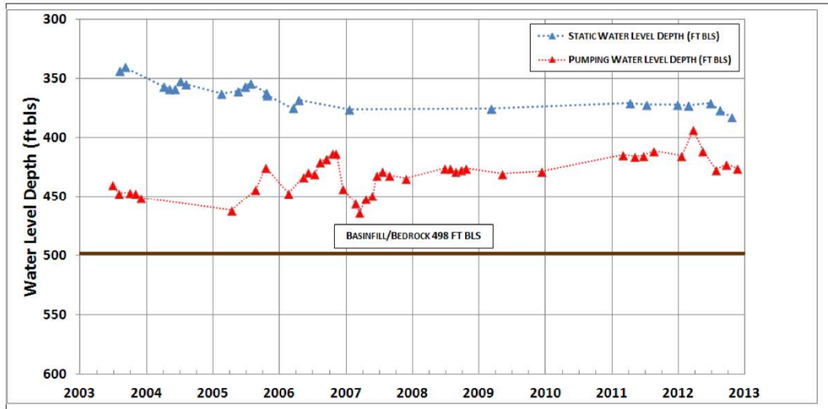
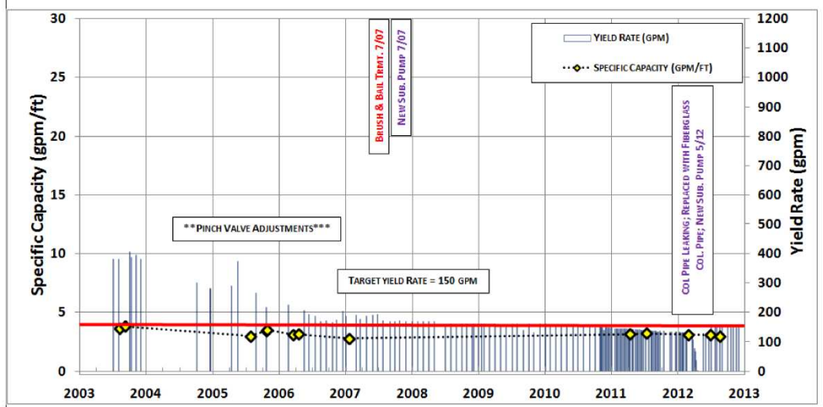
FREEPORT-MCMORAN COPPER & GOLD

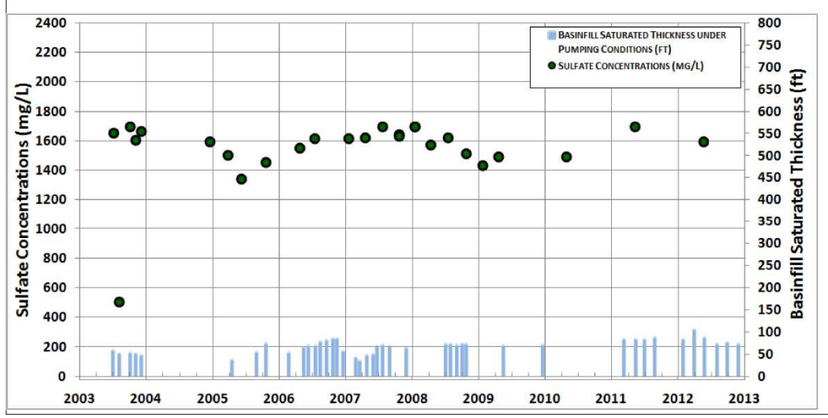
IW-6A: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

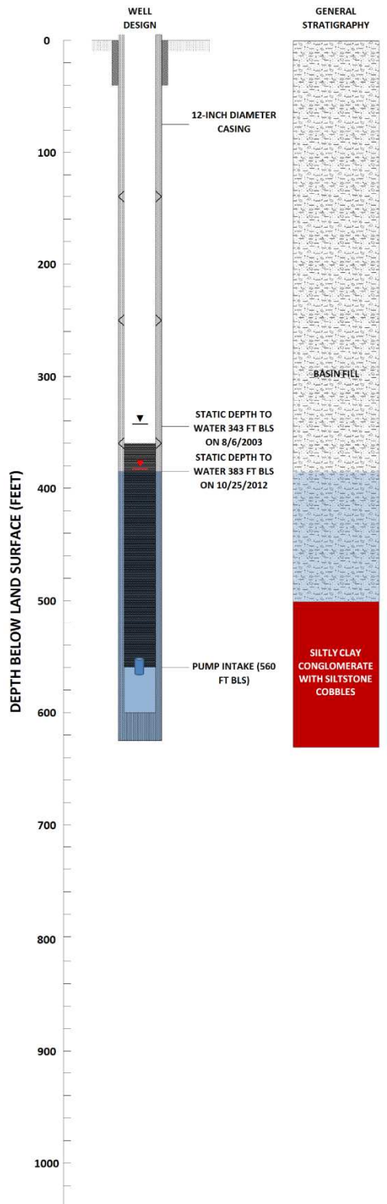
VERSION DATE: JANUARY 1, 2013

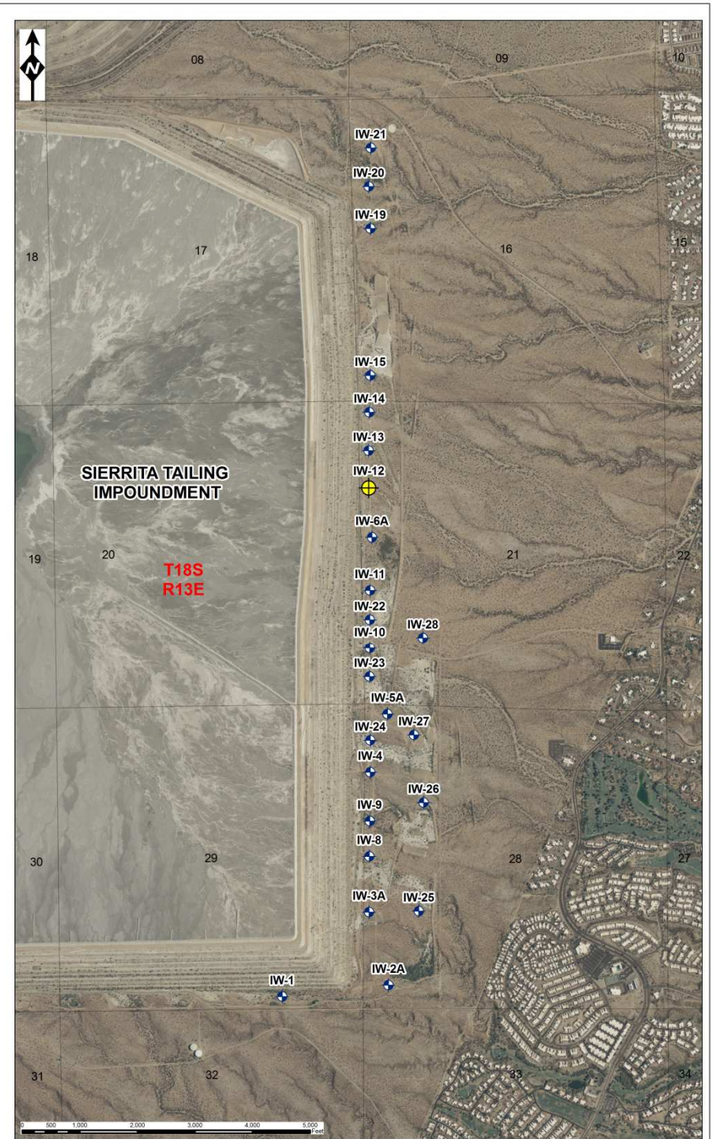
CADASTRAL: D-18-13 21BCC
ADWR REG. NO.: 55-545565
DRILL YEAR: 1994











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SPECIALISTS IN GROUNDWATER DEVELOPMENT

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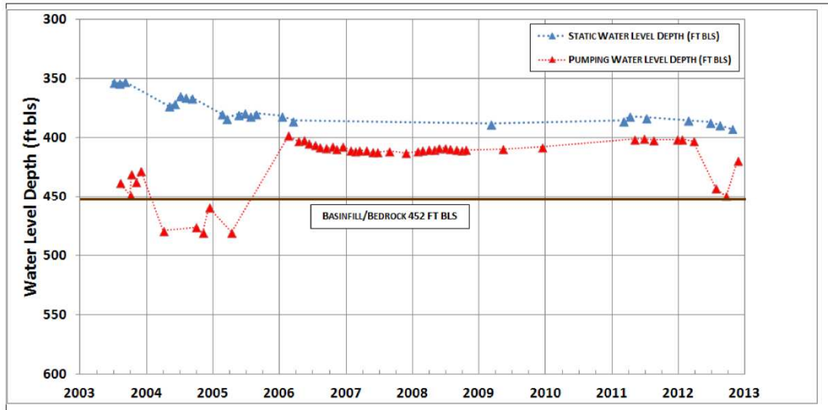
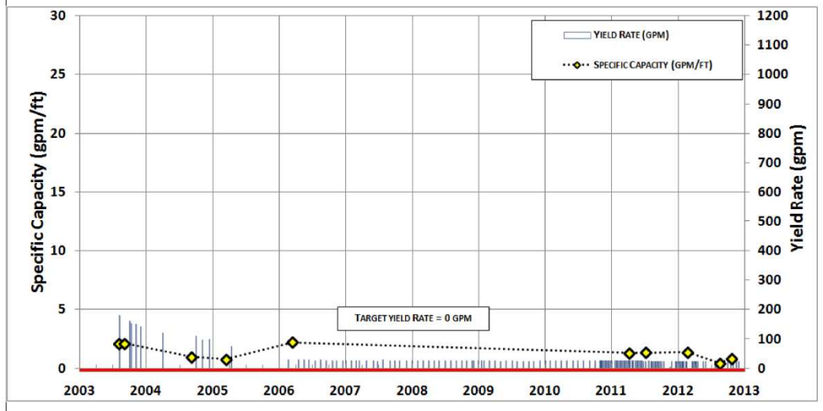
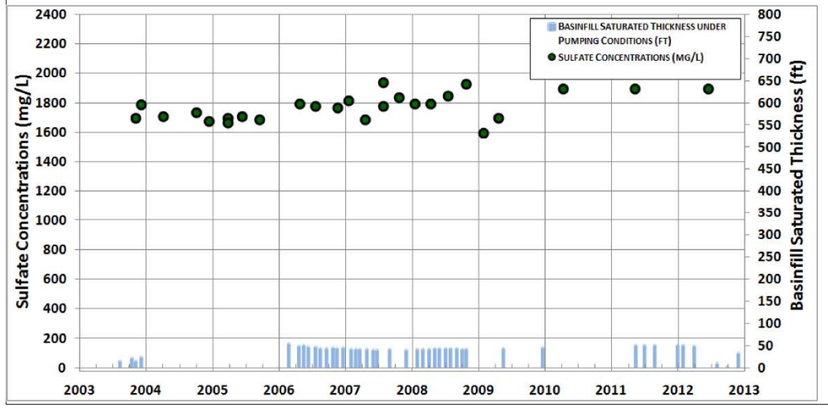
VERSION DATE: JANUARY 1, 2013

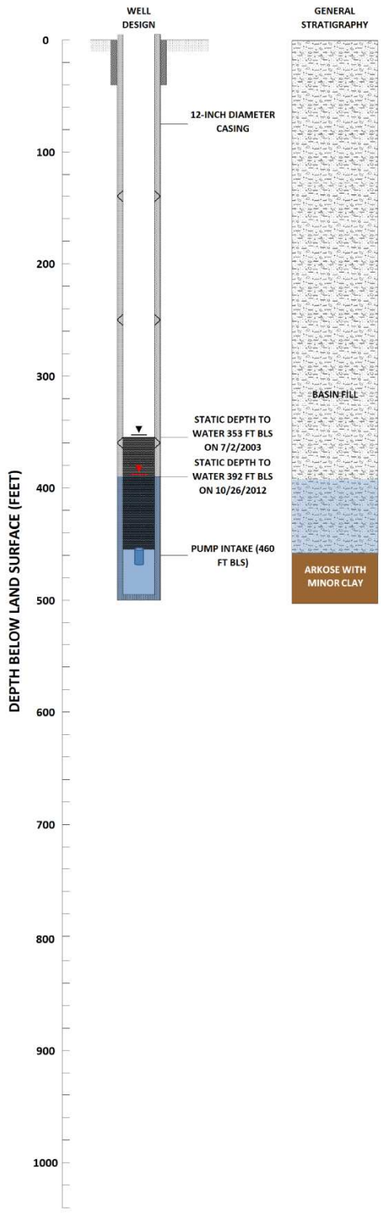
IW-12: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

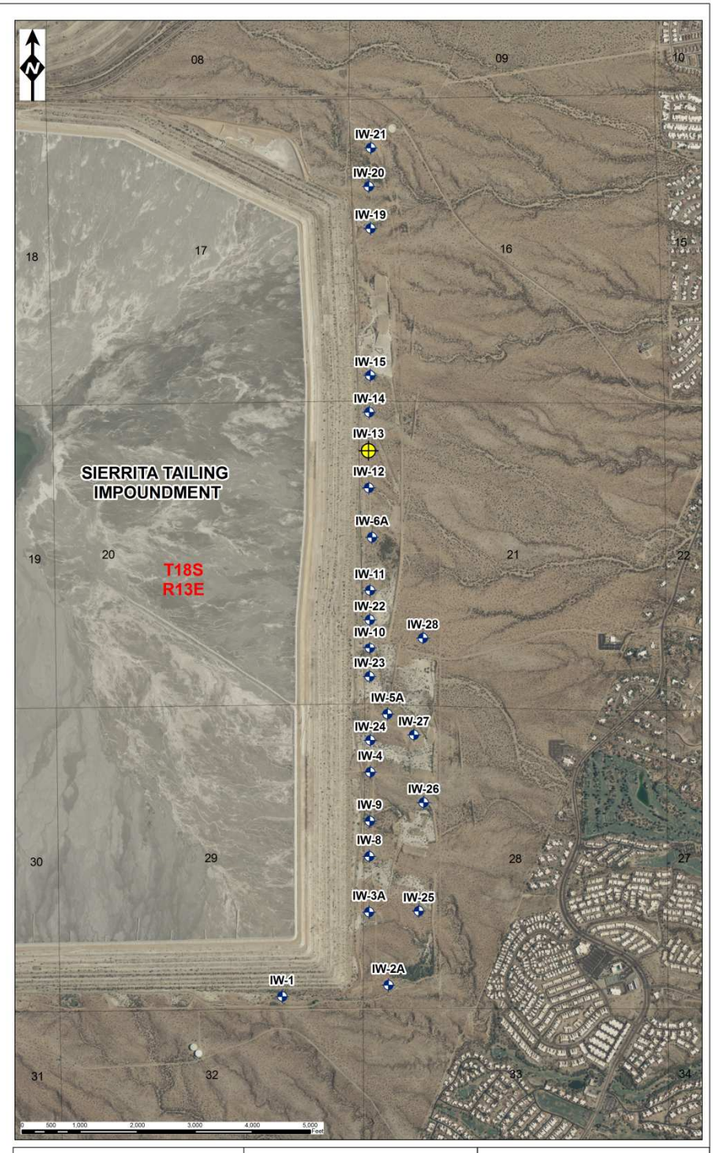
CADASTRAL: D-18-13 21BCB
ADWR REG. NO.: 55-545555
DRILL YEAR: 1994











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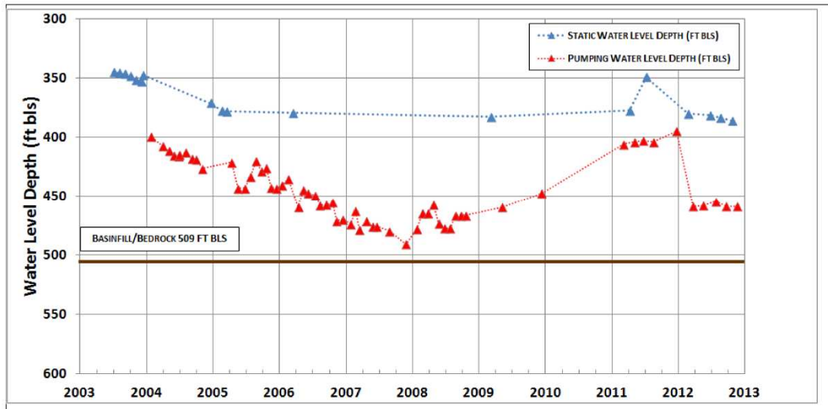
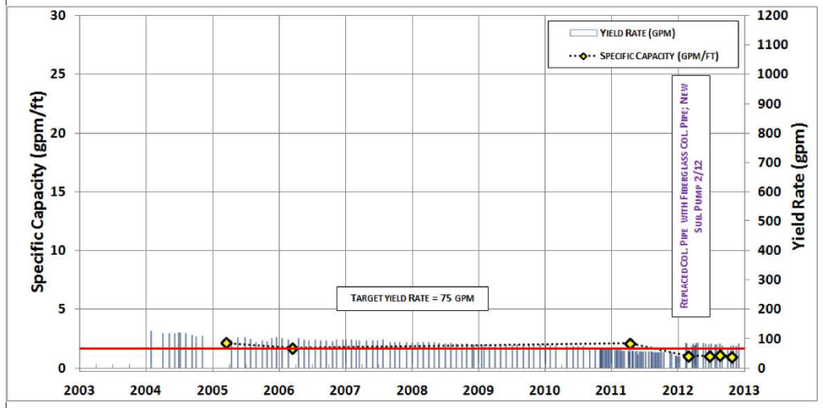
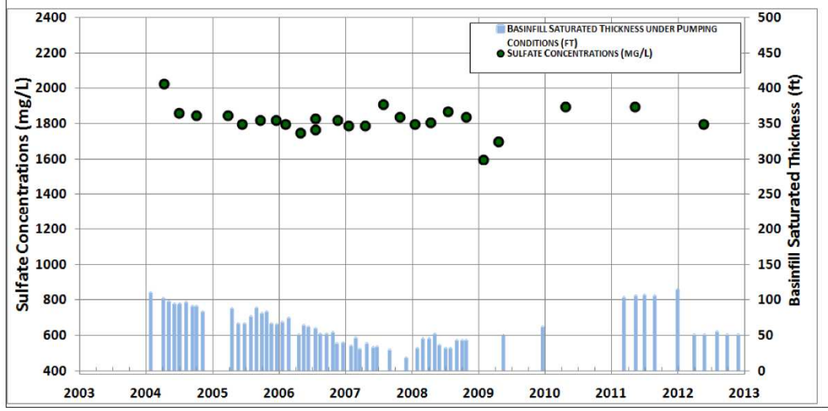
VERSION DATE: JANUARY 1, 2013

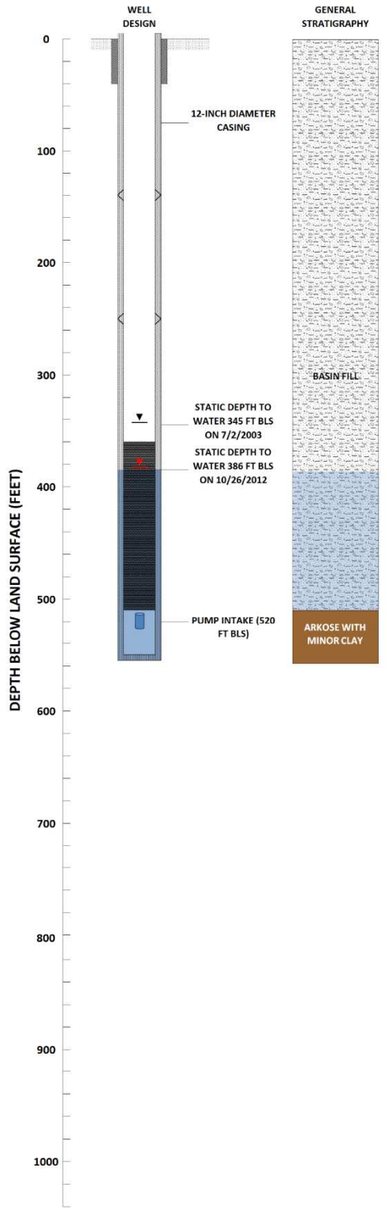
IW-13: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

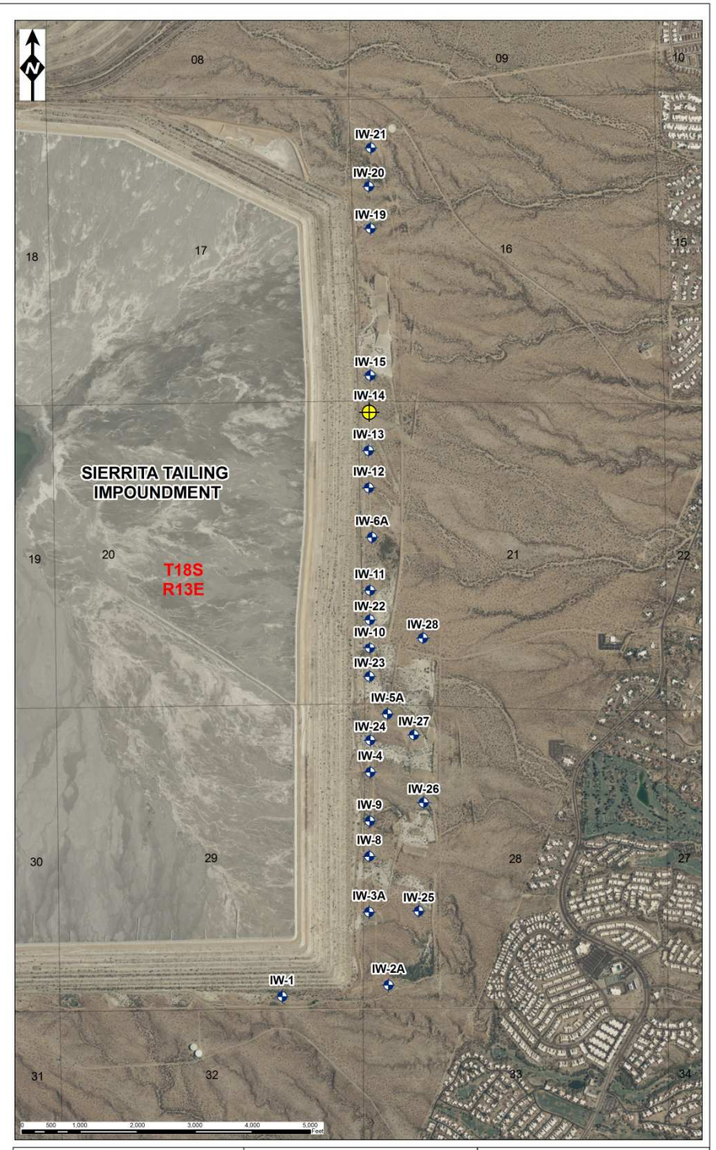
CADASTRAL: D-18-13 21BBC
ADWR REG. NO.: 55-545556
DRILL YEAR: 1994











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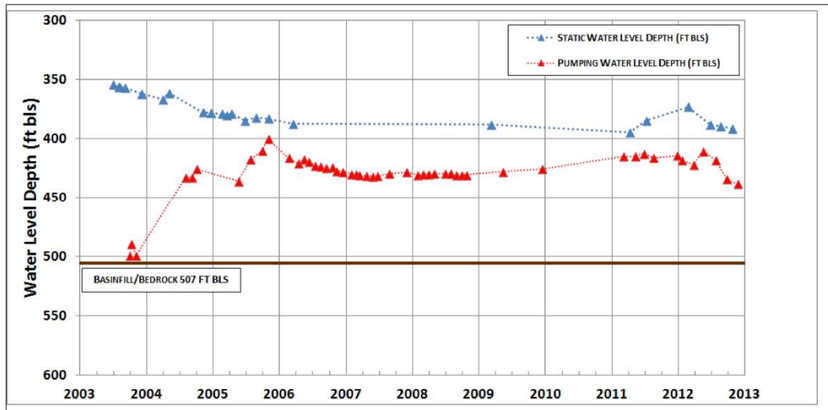
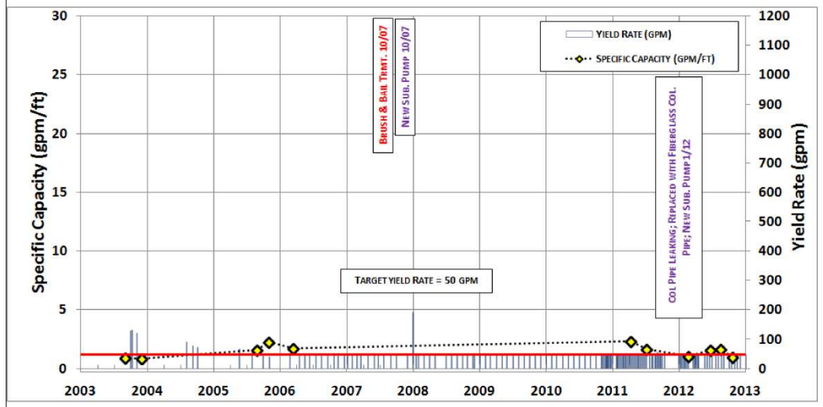
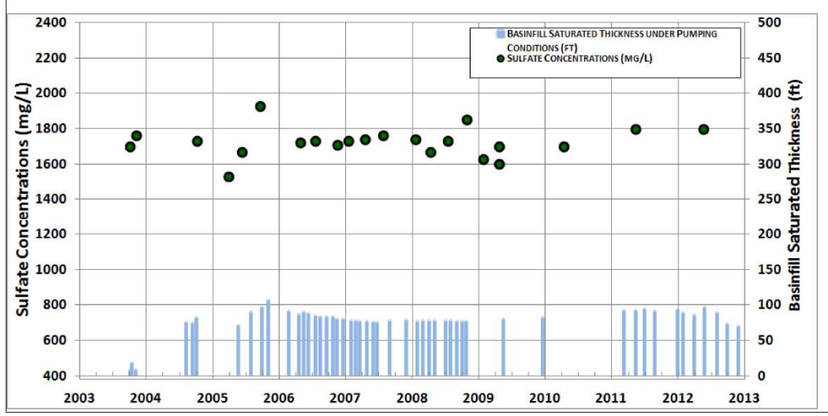
VERSION DATE: JANUARY 1, 2013

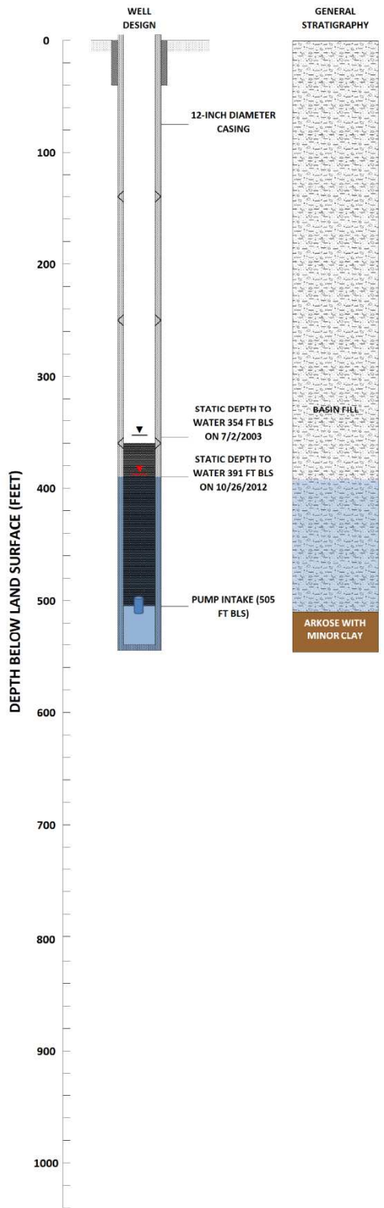
IW-14: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

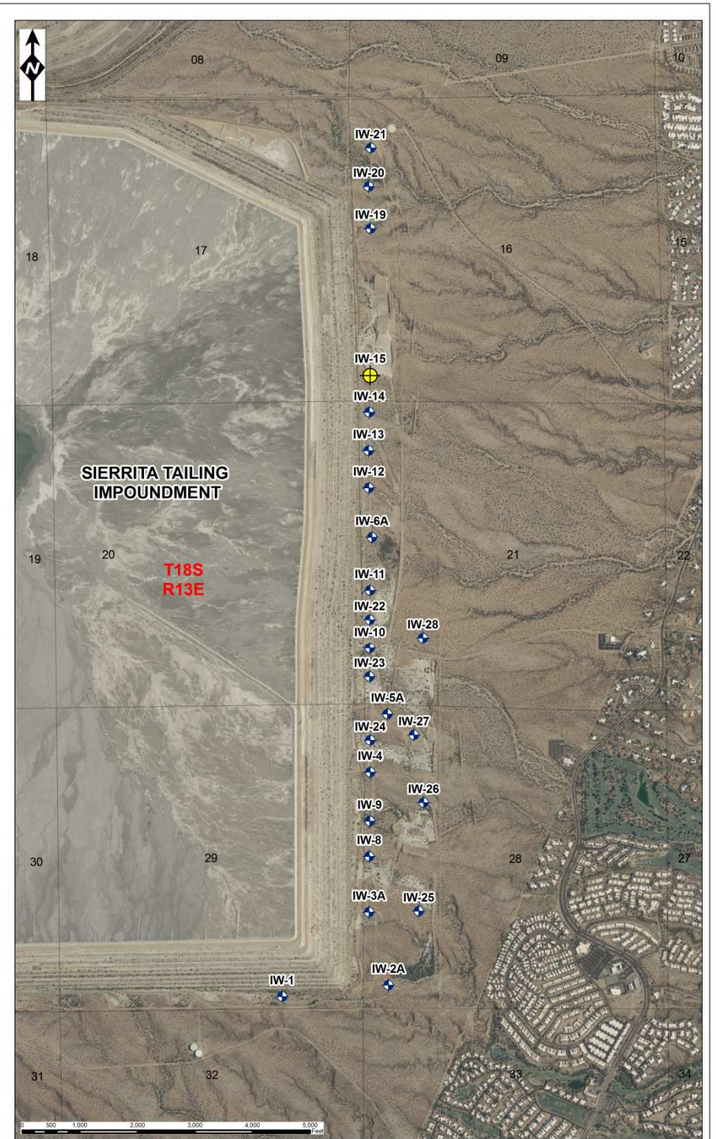
CADASTRAL: D-18-13 21BBB
ADWR REG. NO.: 55-545557
DRILL YEAR: 1994











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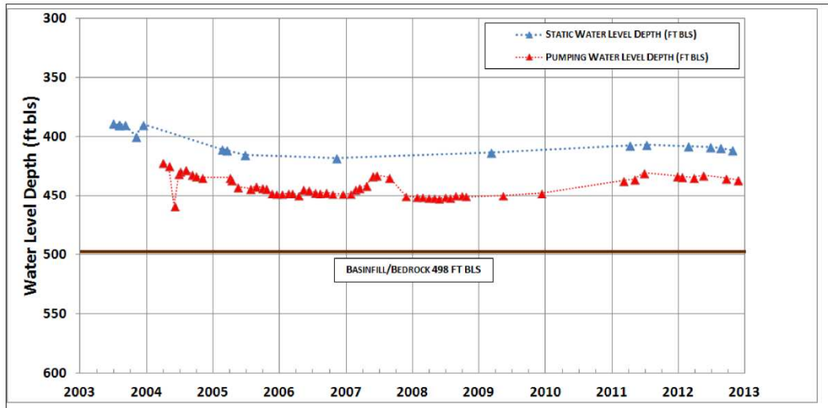
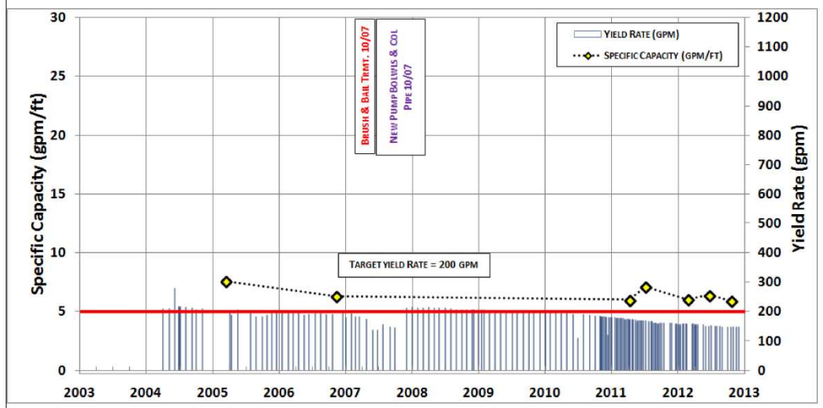
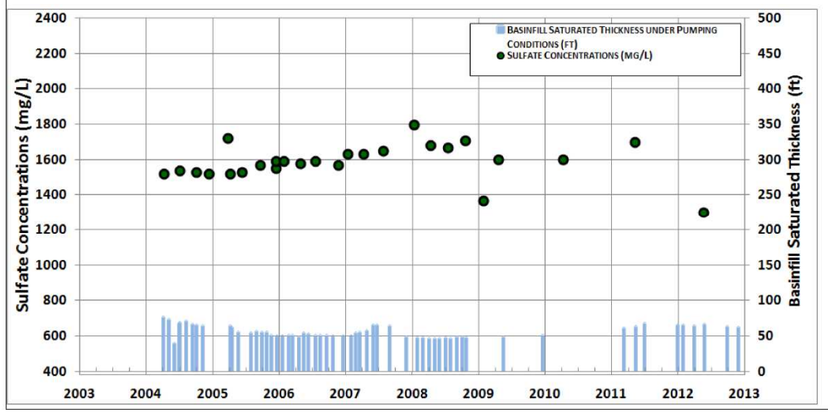
VERSION DATE: JANUARY 1, 2013

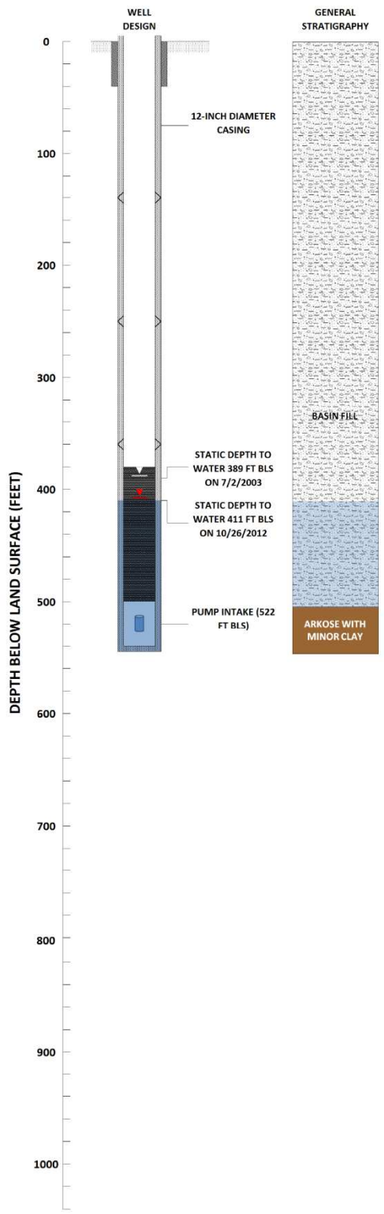
IW-15: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

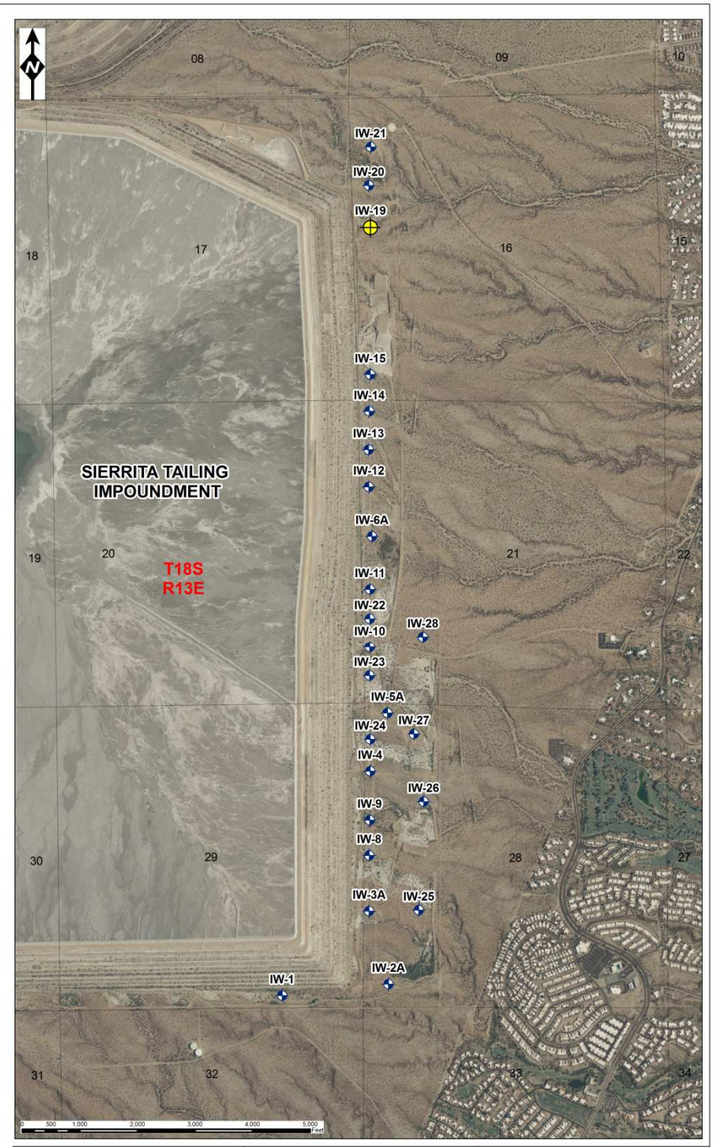
CADASTRAL: D-18-13 16CCC
ADWR REG. NO.: 55-545558
DRILL YEAR: 1995











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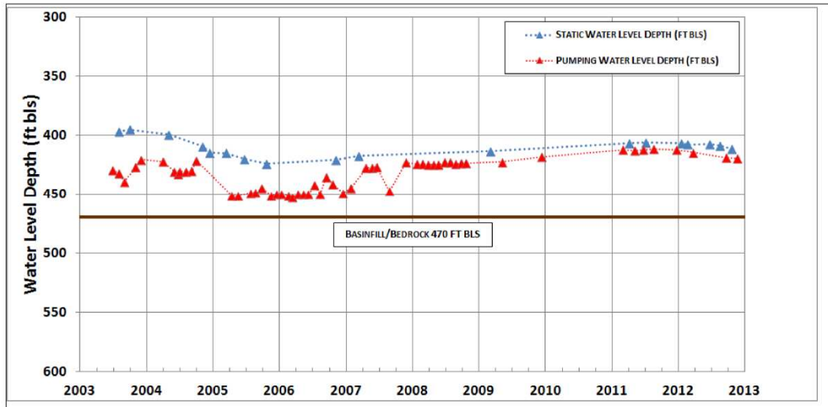
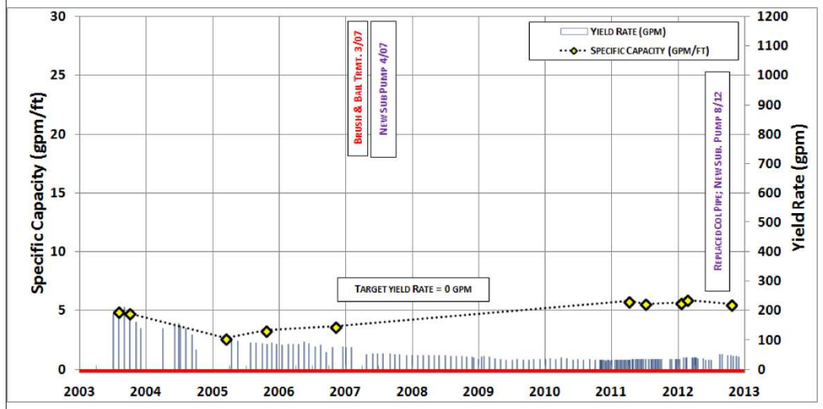
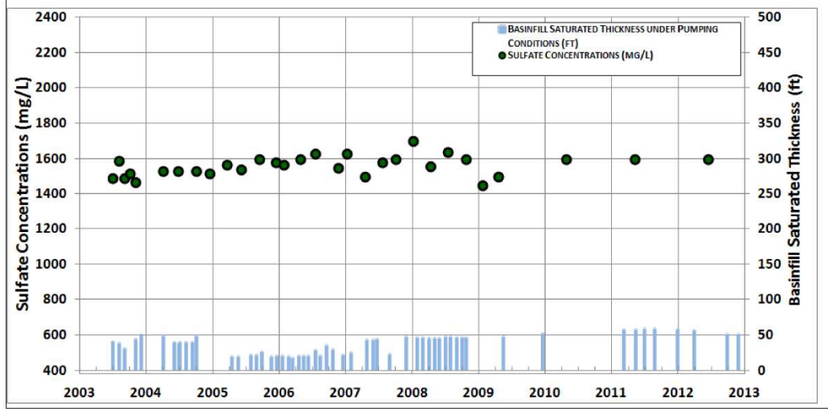
IW-19: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

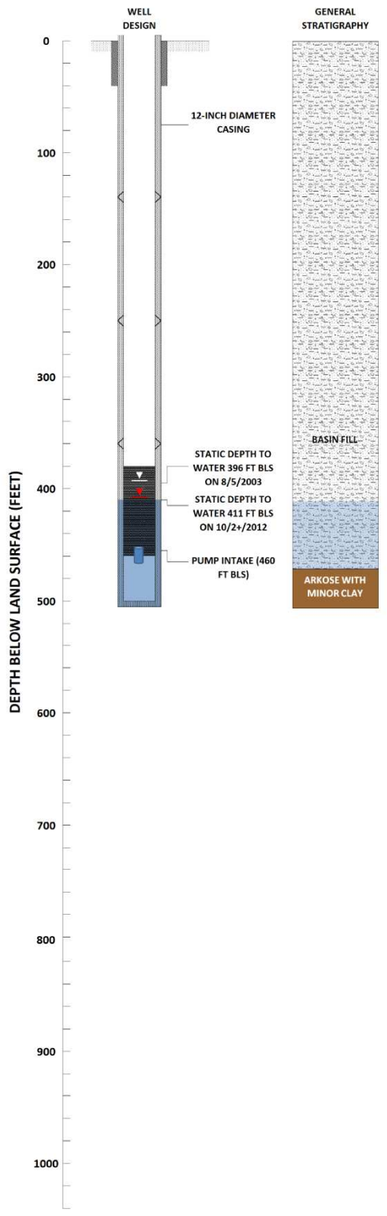
VERSION DATE: JANUARY 1, 2013

CADASTRAL: D-18-13 16BCC
ADWR REG. NO.: 55-545562
DRILL YEAR: 1995









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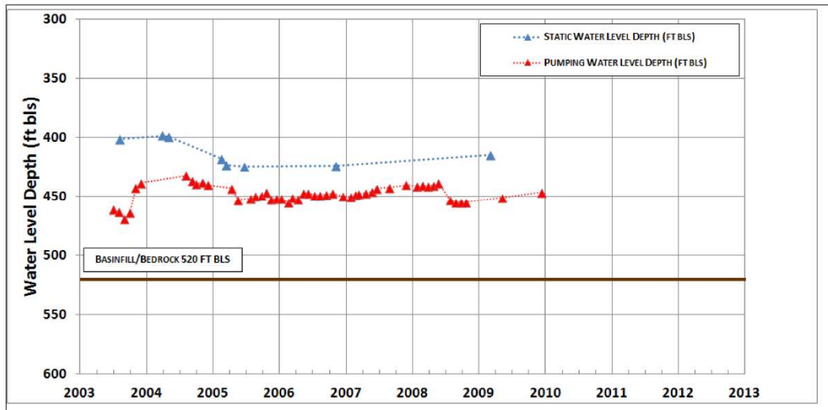
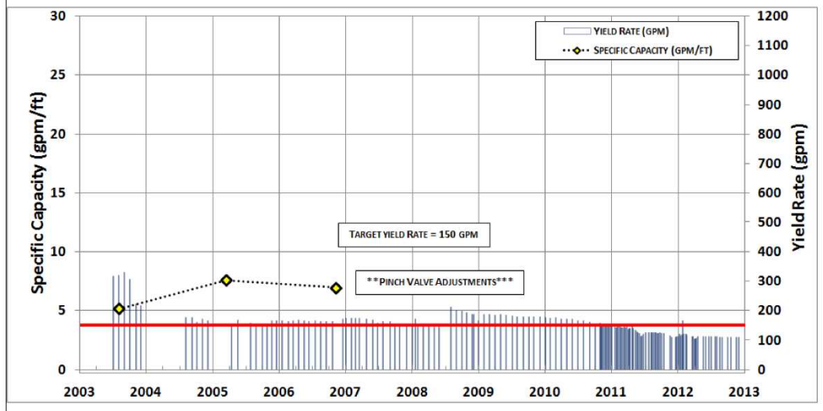
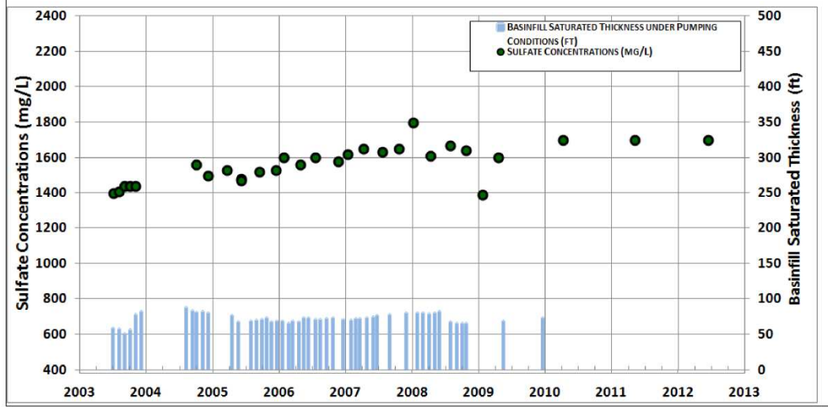
VERSION DATE: JANUARY 1, 2013

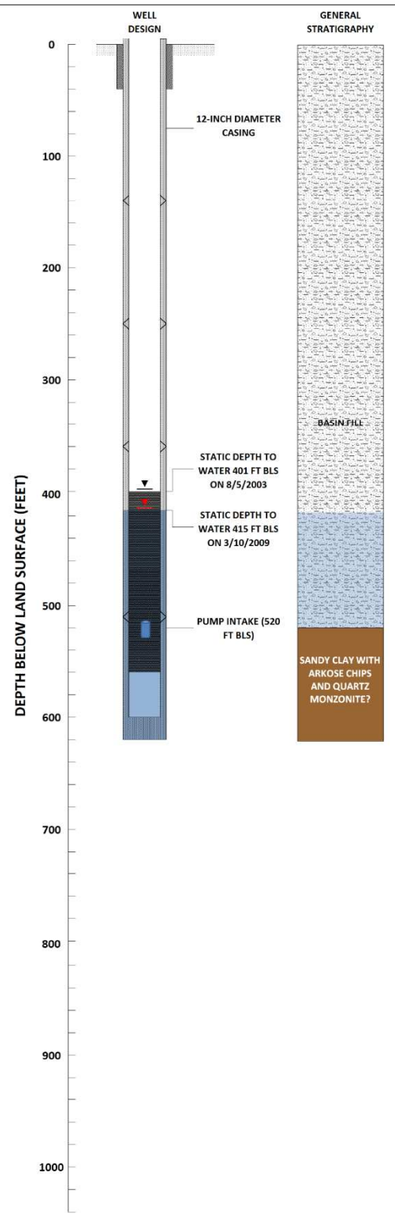
IW-20: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

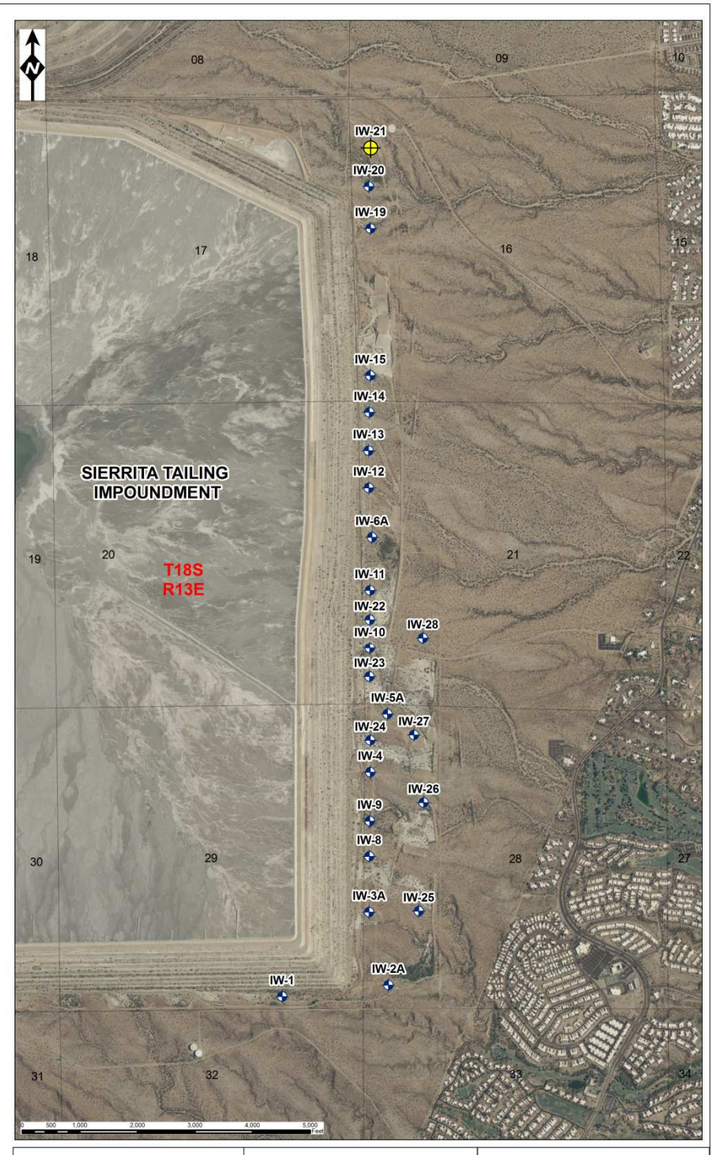
CADASTRAL: D-18-13 16BCB
ADWR REG. NO.: 55-545563
DRILL YEAR: 1995











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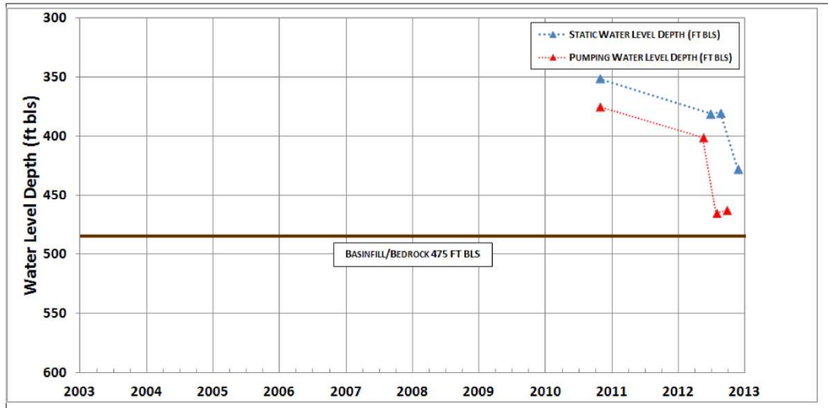
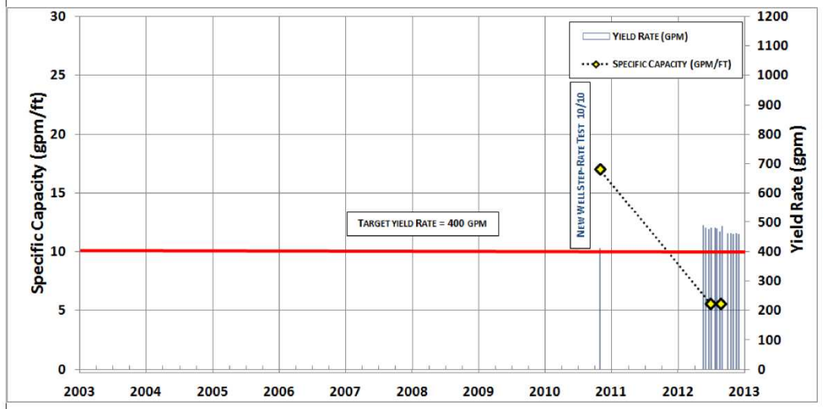
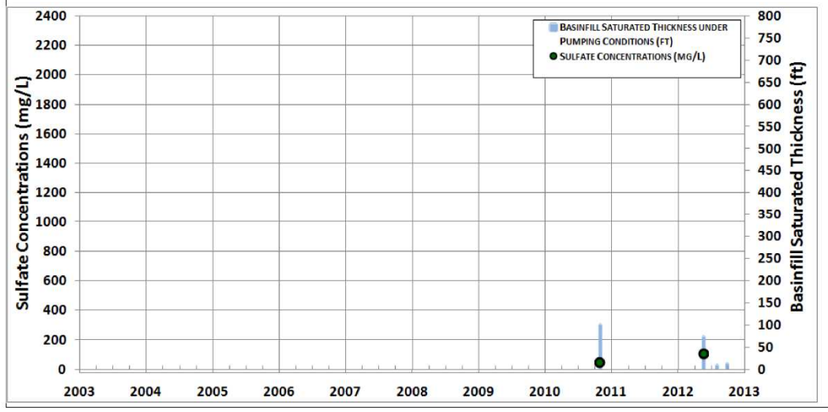
VERSION DATE: JANUARY 1, 2013

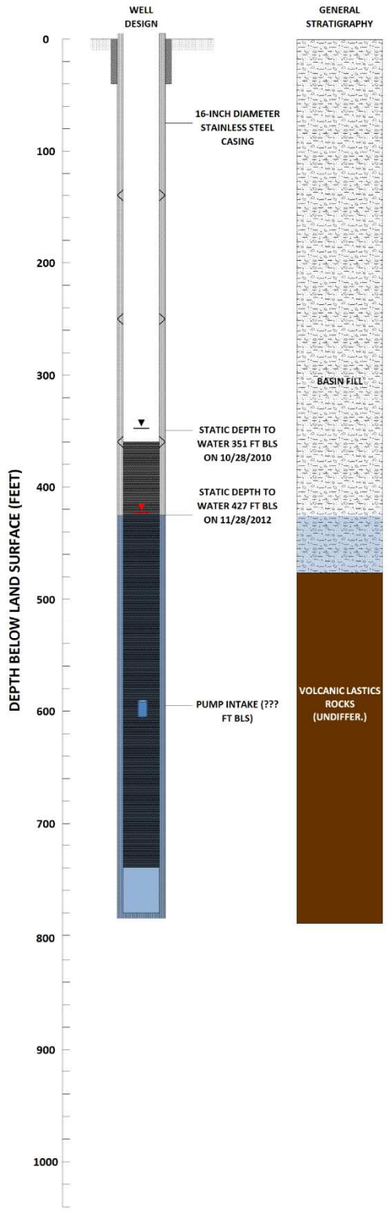
IW-21: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

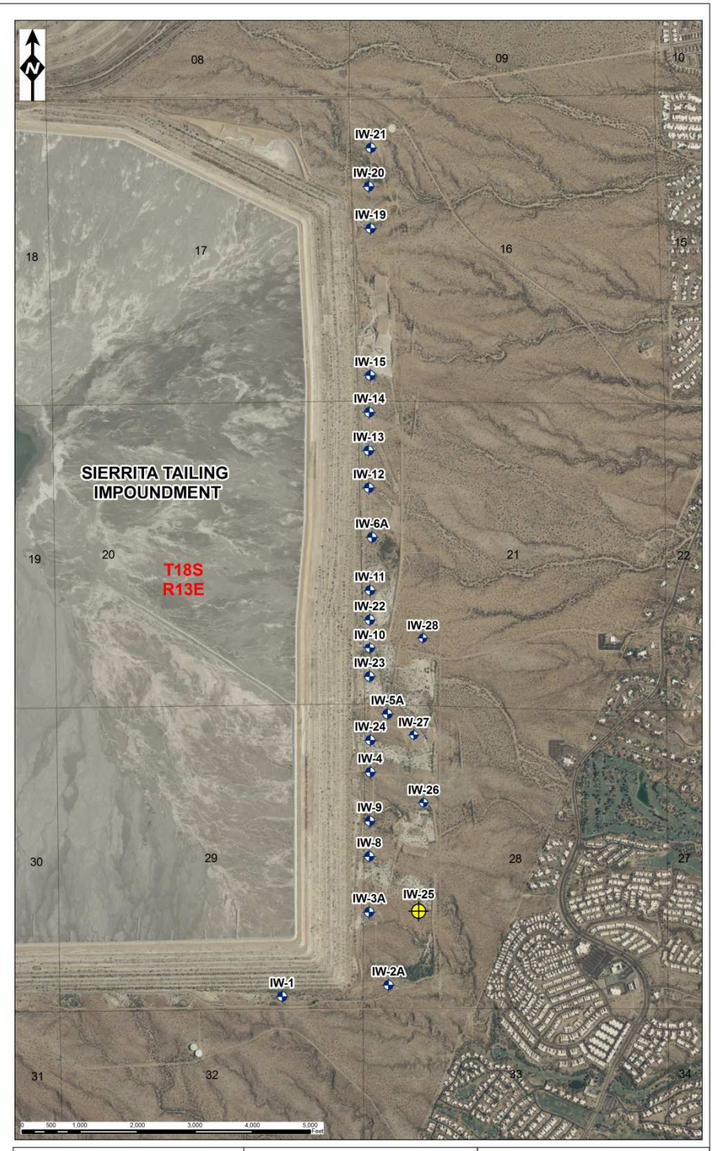
CADASTRAL: D-18-13 16BBC
ADWR REG. NO.: 55-545564
DRILL YEAR: 1995











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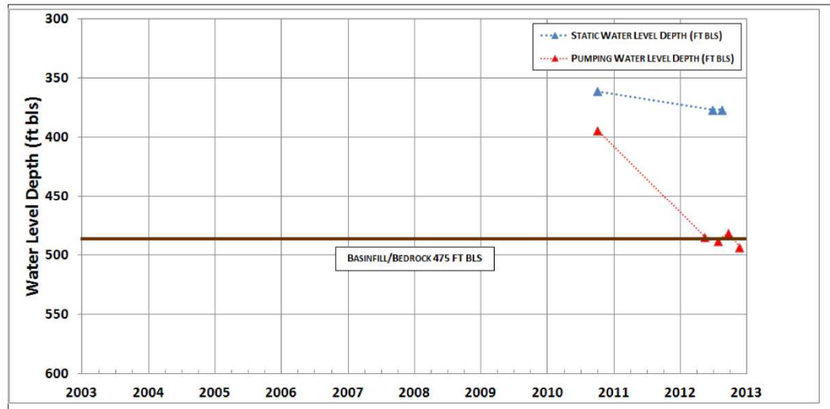
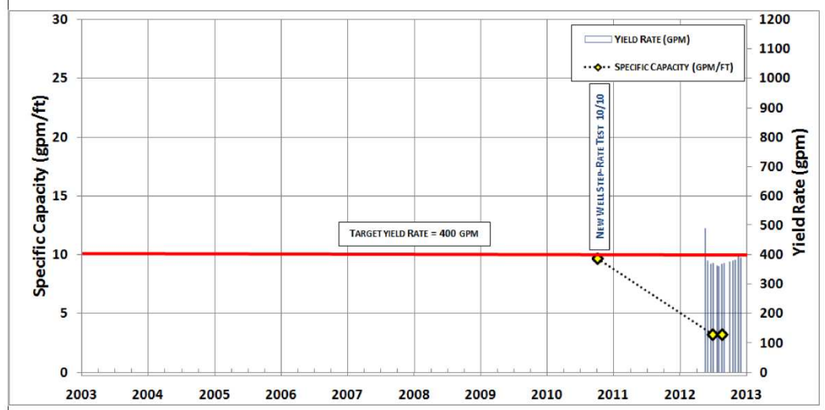
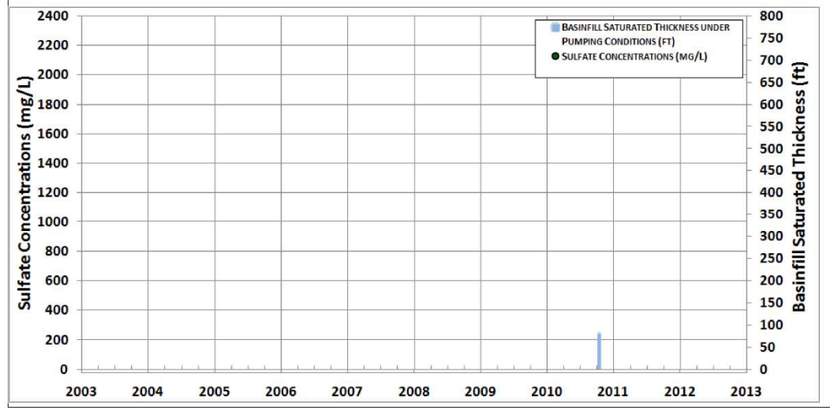
VERSION DATE: JANUARY 1, 2013

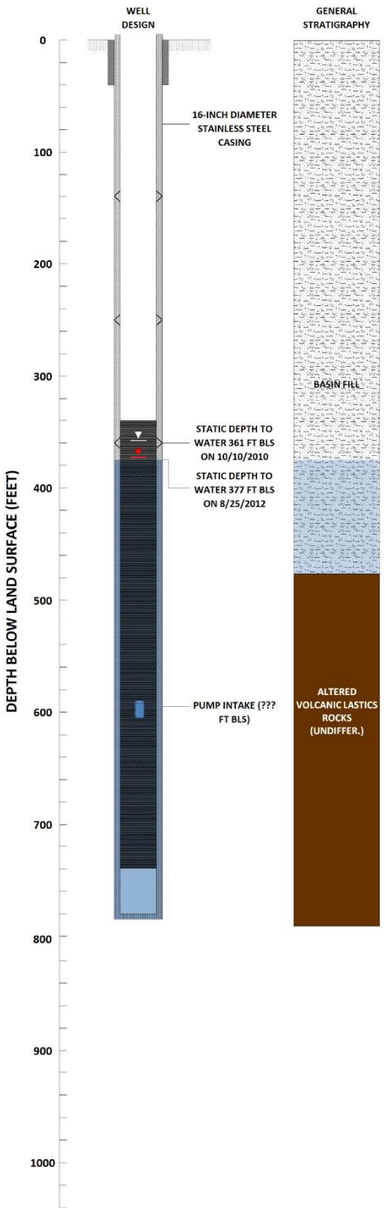
IW-25: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

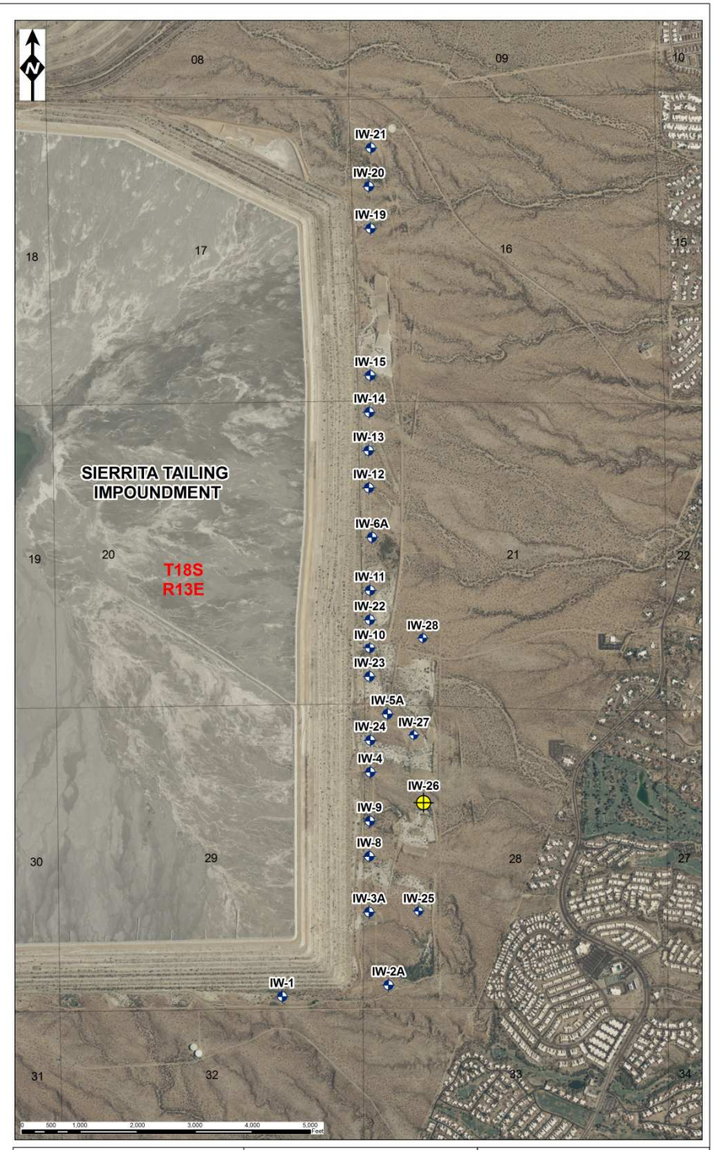
CADASTRAL: D-18-13 28CBD
ADWR REG. NO.: 55-219596
DRILL YEAR: 2010











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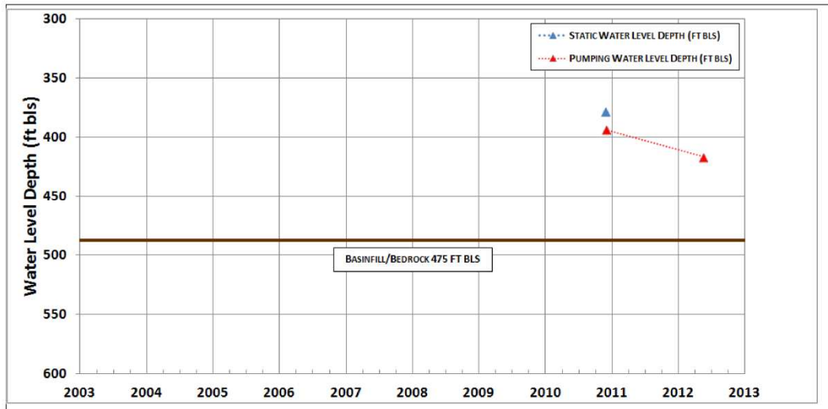
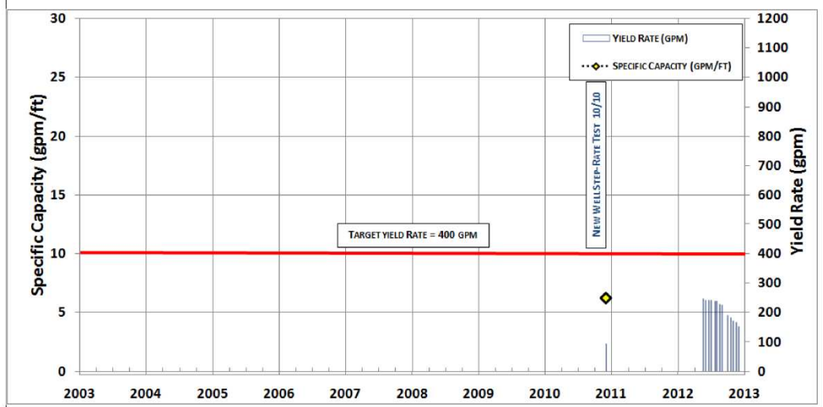
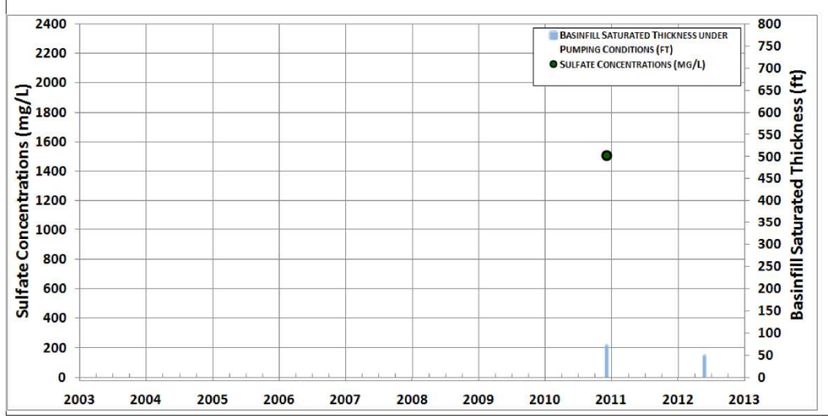
IW-26: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

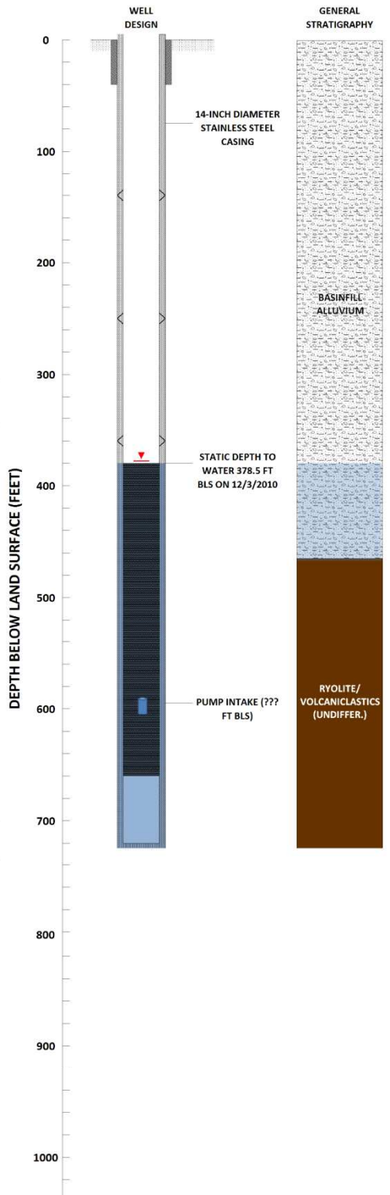
VERSION DATE: JANUARY 1, 2013

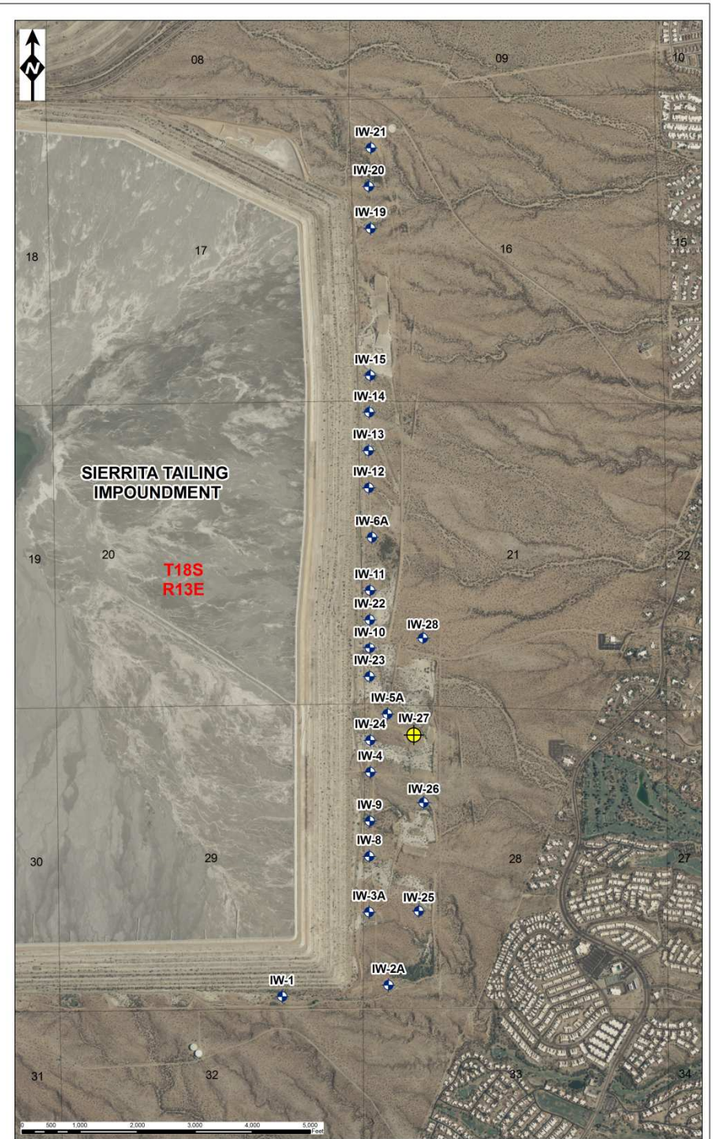
CADASTRAL: D-18-13 28BCD
ADWR REG. NO.: 55-219143
DRILL YEAR: 2010











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SPECIALISTS IN GROUNDWATER DEVELOPMENT

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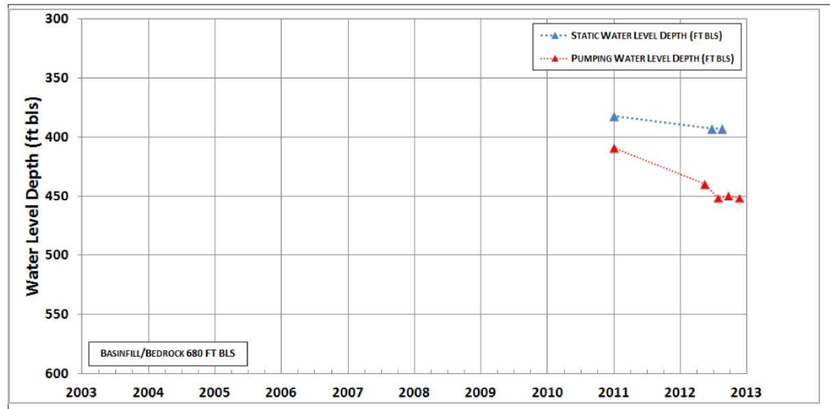
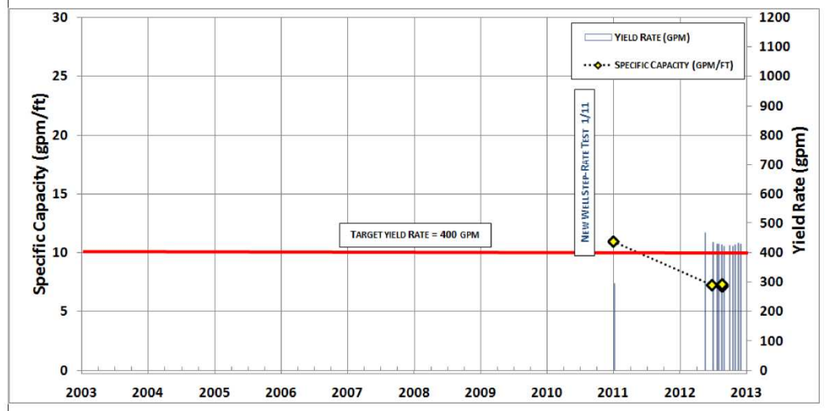
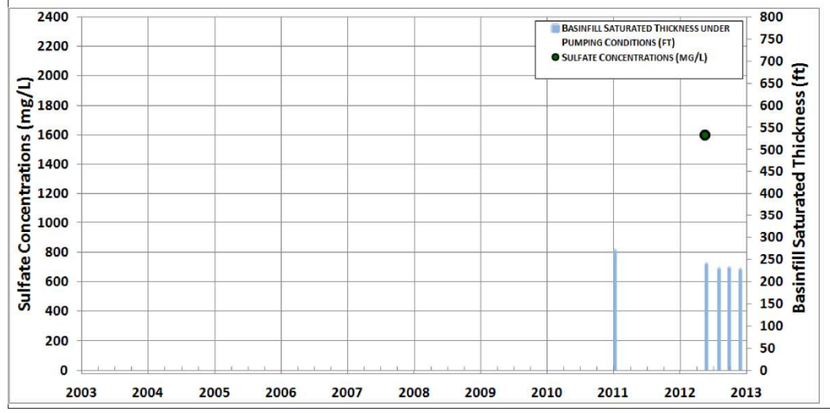
IW-27: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

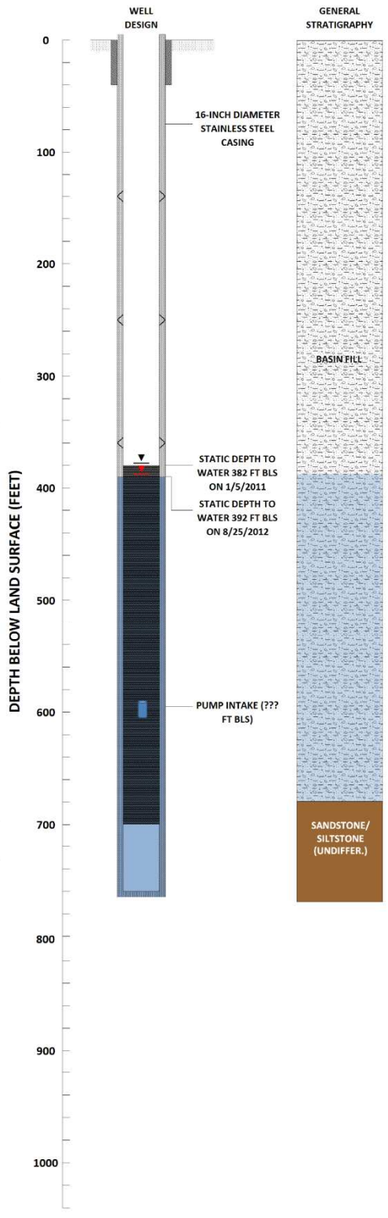
VERSION DATE: JANUARY 1, 2013

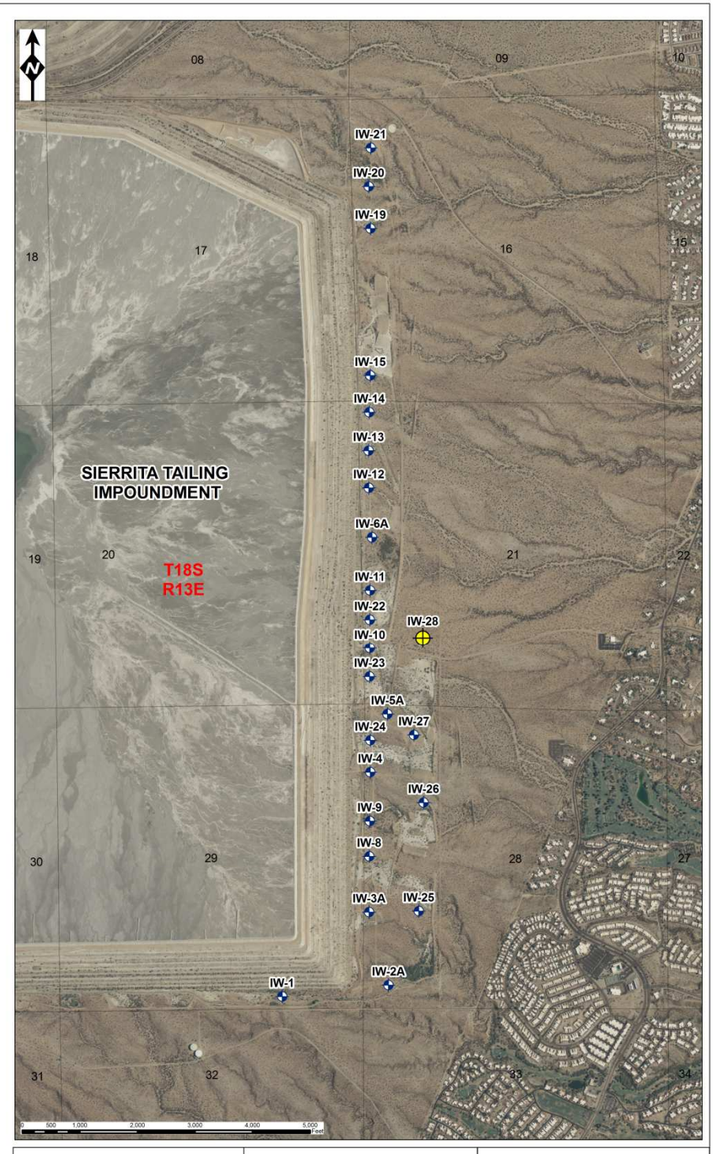
CADASTRAL: D-18-13 28BBD
ADWR REG. NO.: 55-219136
DRILL YEAR: 2010











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IW-28: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE

VERSION DATE: JANUARY 1, 2013

CADASTRAL: D-18-13 21CCA
ADWR REG. NO.: 55-219137
DRILL YEAR: 2010