

John Glass

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May 7, 2025

Christopher Ioan
Project Manager
California Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, CA 90630

**Subject:** Addendum to Second Quarter 2023 Well Performance Report, PG&E Topock Compressor

Station, Needles, California (PGE20180115A)

### Dear Christopher Ioan:

Enclosed is an addendum to the Second Quarter 2023 Well Performance Report for the Pacific Gas and Electric Company (PG&E) Topock Compressor Station located in Needles, California (the Site), which was prepared for and submitted to the California Department of Toxic Substances Control (DTSC) on September 28, 2023. This addendum provides the monitoring well redevelopment logs and a discussion of the monitoring well redevelopment results for Second Quarter 2023, as requested by the DTSC in email correspondence on August 1, 2024.

Please contact me at (628) 219-4369 if you have any questions regarding the enclosed addendum.

Sincerely,

John Glass Pacific Gas and Electric Co

Program Manager

Cc: Chris Guerre/DTSC
Veronica Dickerson/DOI
Ken Foster/CA-SLC
Bruce Campbell/AZ-SLD

## Addendum to the Second Quarter 2023 Well Performance Report for the Pacific Gas and Electric Company Topock Compressor Station

This addendum to the Second Quarter 2023 Well Performance Report provides additional documentation for monitoring well redevelopment activities that occurred during Second Quarter 2023. These activities were referenced in Section 4 of the Second Quarter 2023 Well Performance Report and are discussed in further detail herein. The monitoring well redevelopment logs are provided as an attachment to this addendum.

Monitoring wells MW-09, MW-11, MW-28-025, MW-30-030, MW-35-060, MW-39-040, and MW-82-046 were identified as requiring redevelopment in the First Quarter 2023 Well Performance Report<sup>1</sup> and were redeveloped by the end of Second Quarter 2023. Well redevelopment logs are attached. Monitoring well redevelopment included initial bailing and swabbing of the well using a surge block, then pumping the well using a Waterra pump or submersible pump to remove sediments that had accumulated at the bottom of the well. The wells were pumped until water quality parameters were stable (based on three readings collected at least 5 minutes apart) and turbidity was less than 10 nephelometric turbidity units (NTUs), or as directed by the Geologist/Engineer providing oversight.

Monitoring well MW-09 was redeveloped in May 2023 due to damage caused by the March and August 2022 storm events and observed changes in the analytical and field water quality results for this well following these storm events. Redevelopment reduced the downwell sediment buildup in monitoring well MW-09 by approximately 3.86 feet (measured well depth was 84.92 feet below top of casing [btoc] in February 2023 [pre-development] and 88.78 feet btoc in June 2023 [post-development]). Additionally, turbidity in well MW-09 declined from 38 NTUs measured in February 2023 to 9 NTUs measured in June 2023. Following redevelopment, field water quality parameter (including specific conductivity and oxidation-reduction potential) readings from MW-09 returned to levels consistent with pre-storm readings, suggesting that the collected samples were indicative of aquifer conditions. However, the May 2023 redevelopment did not appear to affect hexavalent chromium (Cr6) concentrations in MW-09. Cr6 concentrations in this well had decreased following the March 2022 storm event and did not return to the pre-storm range following the May 2023 redevelopment (i.e., concentrations remained less than 2 micrograms per liter through June 2023 compared to 120 to 170 micrograms per liter prior to the March 2022 storm event).

Monitoring well MW-11 was redeveloped in March 2023 due to observed increases in Cr6 concentrations in this well following the August 2022 flood event in Bat Cave Wash. Redevelopment did not appear to affect Cr6 concentrations. The thickness of sediment measured in MW-11 following redevelopment was similar to past measurements (measured well depth was 85.65 feet btoc in February 2023 [pre-development] and 85.62 feet btoc in June 2023 [post-development]). Turbidity remained low following redevelopment, with a measurement of 9 NTUs in June 2023.

Monitoring wells MW-28-025, MW-30-030, MW-35-060, MW-39-040, and MW-82-046 were redeveloped because measured well depths during consecutive sampling events indicated that greater than 20 percent of the screened interval was covered. Redevelopment reduced downwell sediment buildup at monitoring wells MW-35-060 and MW-82-046:

 At MW-35-060, which was redeveloped in May 2023, sediment buildup was reduced by approximately 0.7 foot (measured well depth was 57.33 feet btoc in February 2023 [predevelopment] and 58.00 feet btoc in August 2023 [post-development]). Turbidity and sample analytical results remained consistent with past results following redevelopment.

<sup>&</sup>lt;sup>1</sup> Arcadis. 2023. First Quarter 2023 Quarterly Progress Report. PG&E Topock Compressor Station, Needles, California. June 14.

 At MW-82-046, which was redeveloped in May 2023, sediment buildup was reduced by approximately 0.7 foot (measured well depth was 47.40 feet btoc in May 2023 [predevelopment] and 48.14 feet btoc in June 2023 [post-development]). Turbidity and sample analytical results remained consistent with past results following redevelopment.

At MW-28-025, MW-30-030 and MW-39-040, sediment infiltrated the well during bailing, preventing effective sediment removal as part of the redevelopment. Due to the high volume of sediment at MW-30-030, the surge block became stuck in this well and was unable to be removed by jetting and mechanical means. Additionally, during the attempt to remove the surge block, the well casing and monument moved approximately 3 inches, prompting the field team to cease efforts to retrieve the surge block. Well MW-30-030 was abandoned by over-drilling and replaced with a new well (MW-30-030R) in Fourth Quarter 2023 as detailed in the Fourth Quarter 2023 Quarterly Progress Report<sup>2</sup>. Plans to replace MW-30-030 were presented to the Technical Working Group on July 11, 2023, and a field walk for the replacement well installation was conducted on August 9, 2023.

As a result of the experiences at MW-28-025, MW-30-030, and MW-39-040, the following changes have since been implemented regarding monitoring well redevelopment:

- Wells will be redeveloped using a smaller diameter surge block to reduce risk of the surge block being lodged between sediment and the well casing.
- Wells located in fluvial sediments (see Table 4.2 of the Second Quarter 2023 Well Performance Report), where sediment infiltration is likely given the screen slot size and/or filter pack combination, will not be redeveloped. Redevelopment of these wells is expected to have a detrimental effect on well performance due to increased potential for sediment infiltration during redevelopment.
- Wells where significant sediment infiltration occurs during redevelopment will not be considered for future redevelopment.

Monitoring wells MW-22, MW-27-020, and MW-32-020 were previously identified for redevelopment in the First Quarter 2023 Well Performance Report<sup>3</sup>. However, based on experience redeveloping MW-28-025, MW-30-030, and MW-39-040 (as discussed above) and the location of these wells in the floodplain/screened within fluvial sediments, these monitoring wells were not redeveloped in Second Quarter 2023.

<sup>&</sup>lt;sup>2</sup> Arcadis. 2024. Fourth Quarter 2023 Quarterly Progress Report. PG&E Topock Compressor Station, Needles, California. March 13.

<sup>&</sup>lt;sup>3</sup> Arcadis. 2023. First Quarter 2023 Well Performance Report. PG&E Topock Compressor Station, Needles, California. June 29.

# **Attachments**

### Monitoring Well Development Logs, Second Quarter 2023

For additional help with the information provided in the attachments, please contact Kimberly Wojcik, Arcadis Report Lead, at 312.953.3365.

# **MW-09**

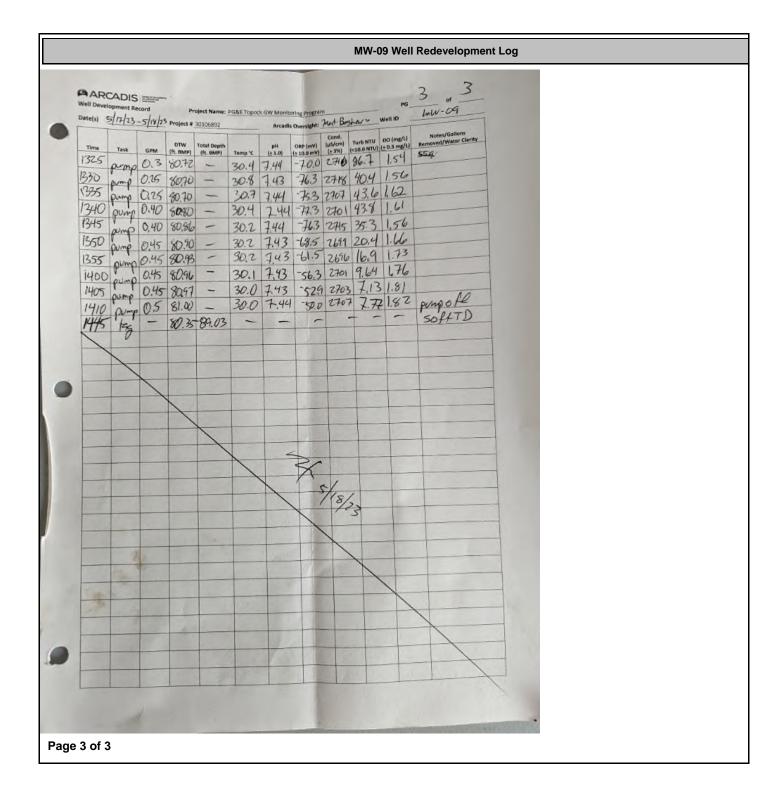
### ARCADIS Well Development Record Project Name: PG&E Topock GW Monitoring Program Areadis Oversight Most Bestunis ARCADIS 100 TR Well to MW-09 Measuring Point (MP) 1875 Total Depth (ft. BMP) 89,42 DTW (ft. ligh): 78.375 Water column 9.17 Diameter of well (in.): 4 (M. BMP): 80,25 Rig operator: Down Good Jet - Ne type: F550 G-D - Baller make and stone 35 × 60° Surge block make and stone 35° × 60° Pump make and size: Stopped Represented to the stone of Water GW DH ORP (mV) (µS/an) Turk NTU DO (mg/s) (± 1.0) (± 10.0 mV) (± 3%) (±3.0.0 NTU) (± 0.3 mg/s) OTW Total Depth (R. BMF) (R. BMF) Temp \*C 1309 bail Solt 8025 8547 1315 bail Say whreats Bag 2530 138 bail 1323 bail 1331 bail no sand 25 gal 1341 bail Saa gry brun, silly 2.5gcl 13.49 bail 13:58 bail saa, 20 gal total ren 14:01 tag 81.00 89.42 1435 swab 79-84 1505 tag 80.35 69.00 50ff 5/18/23 0706 tag - 80.29 88.98 50f4 0715 Surge 84-89' 08-2 tay \$0.32 85.80 0904 bail 3.5gel 0907 bail Saa 0906 bail Saa Saa 1041/66/ 0911 boil 0913 +48 41.03 89.05 Soft Ofle suige 79'-84' 6 hac 0945 2492 84'-89'6ta 1013 tag - 80.39 88.87 Total gallons removed at completion of development: 100 Arcadis Staff: MAT Sedant's

**MW-09 Well Redevelopment Log** 

Page 1 of 3

	3/13/13	S esercial second	Project #	30106892	Pode Typis	Arcadis	Oversight		Pachers	PG Well ID	2 0 3
Time	1	GPM	DTW (ft. BMP)	Total Depth (n. amp)	Temp 'C	pH (± 1.0)	ORP (mV) (± 10.0 mV)	Cond.	Turb NTU	00 (mg/L) (±0.3 mg/L)	Notes/Gallom Removed/Water Clarity
1025		-	-	-	-	-	-	-	-	-	tong region
1028	bail	-	~	-	-	-	-	-	-	-	boun clarysgel
1031	Call	-	-	-	-	-		-	3		Saa total Dyall
1045	bail		-	- W	-	-	-	-	50	-	
1115	tag	-	80.45	64.38	-		-	-			soft
1120	tag	DIK	8032	-	_	_	_		100		Pinkle: 84 btoc
1173	primp	0.65	8098								higher 84 area
1125	purp	210	80.83	-	30.3	7,50	161.4	745	177	241	
1130	Post	0.3/-	80.70	-	30,5	7.50	170.1	2673	112	2,20	
1135	pump	0.28	8D.64	_	31.2	7.51	837	2670	-	231	
1140	Print	0.20		-	30.8	7,51	33.4	2661	65.0	2.01	
1145	amo	0.20	80,61	~	30.9	7.51	6.1	7646	50.1	1.92	
1150	prop	0.23		2	30.9	7.52	3.7	2640	40.4	1.90	
1155	prop	0,25		~	309	751	-1.7	2623	35.7	2.03	
1200	grand		90.72	-	30.7	7.51	-2.2	2615	3133	201	
205	pump		80.73	-	30.5	7.51	35	261	71.9	1.99	
1210	prap		80.74	-	30.6	7.50	7.1	2616	100000000000000000000000000000000000000	1.92	E
1215	ovmo		80.66	1	30.9	7.50	-8.1	2632	17.5	1.87	
220	and	0.25	80.68	1	30.9	7.49	-15.0	2639	14.5	1.81	
A	gimp	0.26	80.70	-	310	7.49	-15.5	2631	10.8	1.82	
	pump	0.25	80.69	-	30.7	7.49	-18.0	2639	9,57	1.77	
1235	own	0.23	80.65	1	31.2	7.48	-21.0	2640	7.81	1.77	
140	Nmo	0.20	80.62	-	31.2	7.48	-24.6	2659	7.96	1.70	
1245	pump	0,25	80.44	-	30.8	7.31	-29.4	2860	over	1.41	proportike: 885
	anno	0.26	40.70	-	30.7	7.31	-43.8	2956	675	1.10	
255	pu-p	0.25	80.70	-	30.6	734	-49.4	2933	342	1.12	
	purp	0.25	80.70	-	30.7	7.37	-55,6	2890	157	1.18	
205	alma	030	80.75	-	30.6	7.41	-59.8	2800	495	1.31	
310		0.296	80.72	-	30.6	7.42	-62,4	2773	41.2	1.30	
210	pup !	0.22	80.69	-	30,8	7.42	-67.2	2744	1159	1.48	
	VEN		60.73		701	1 10	111	0000	128	1.51	

Page 2 of 3



### MW-09 Photo Log



Results of first round of bailing. Left bottle shows first bailer removed and right bottle shows last bailer of the round which was the 4th bail.



Results of second round of bailing. Left bottle shows first bailer removed and right bottle shows last bailer of the round which was the 4th bail.

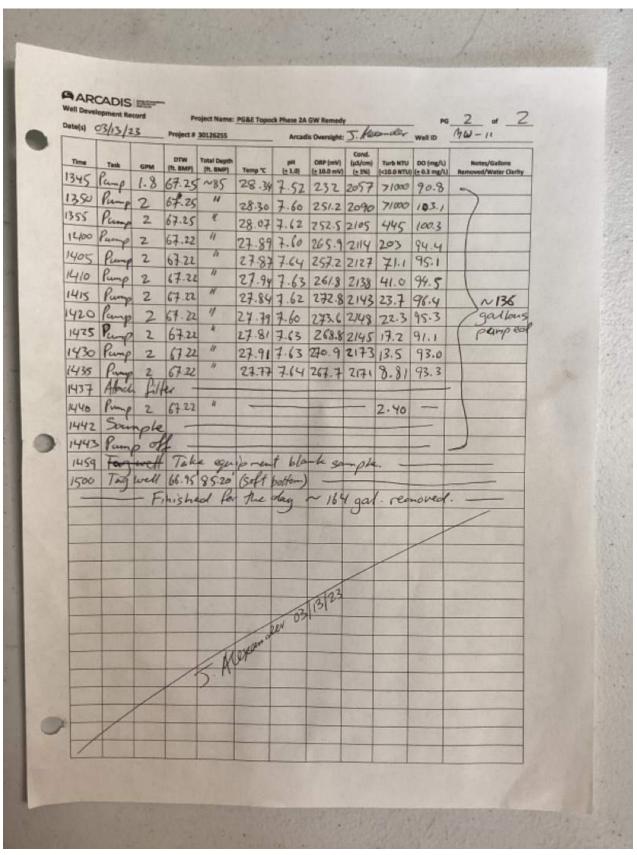
# **MW-11**



	AAR Well Deve	CADIS	SIMP	-									2		
	Date(s) O				oject Name: 90126255	PG&E Tapo	ck Phase 2A	GW Remedy	J. Alex	ander	PG	S Joh Title	on 2 Env. Sc	ients t	
9	Well ID	hw-	11	Measurin	Point (MP)	, Sthan				116			62'-80	-	33
	DTW (ft. BMP):	67	01		66.01	-									
				_{ft. bgs :	00.01	Puls	in well (ft): for	17.79	Diameter	of well (in.):	0.15	Gallons	in wall: 11.7	4	體
	Surge I	dnek make	100 100		- Rig type:					3 in 11, 10	dt ball	/ added	-	-	
		and size	4 inch	diame	Pump m	ake and size:	they n	An SOOM				source	_	=	
	Time	Task	GPM	DTW (ft. BMP)	Total Depth (ft. BMP)	Temp*C	pH (± 1.0)	ORP (mV) (+ 10.0 mV)	Cond. (µ5/cm) (+ 3%)		00 (mg/L) (+ 0.3 mg/L)		es/Gallons d/Water Clarity		
	0818	Taa	we	H 67	.01 D			TD	(50)	+ both	om)	-			
		Preg	paring	to	wab	scree	4 - m	rking	sca	een	interv	uls			
	0840				ly se			al 3	5-8	5/161	oc,	-			
	3 000	-0.1	_		ولماء		-								
	0905				bbilg			1-1		D .	6.1.1	1.	191 7		3
	1020	Eno			50 SC						Sway	Spired	67'-7	)	
	1025				84.15		_		73	DIEC.				188	
)	1036				mI/L:				otal s	ialids.	_	5			
	1040		bai	4								5 14	gal.		
	1044	3 rd									_	6	airbed		. 2
	1049				note of				L fof	al soli	bls	7			-2
	1054	Tag	well	67.15	85.40	(hard	batter	·) —							
	1057	Beg	- SW	abb.	g ser	een in	erval	75'-	85 €	loc.	-		_		
	1147										in later	val 6	7'-75'		
					9 50				+++1						
	Name of Street, or other Park	1009	well	6+-17	84.80	(5047	l botto	0 11/1	44	1 00	ids,			=	
	1240	151	The same of the sa	> 1	0 m//	San	, 00		70/-	30/	,	(	4 901.		
	1245		bail									-6-	railed		
	1251		bail	> 12	5 m1/L	Ane	sand.	450 m	1/4 +	ofal s	liols	1	1		
	1252		11000	1000	85.40		4 1	1						-	
	1335	Penny	01	11	285	29.61	7-39	229	1971	71000	92.2			-	
,	Sample ID	and Time:	MW-	115-03	1323 €	MW-	115-03	1323-1	-6				-		
	Total gallo accadis St	es remove	olence L	an A	reiopment: Ugam d	01	Japans.								

MW-11 - Well Development Record





MW-11 - Well Development Record





MW-11 - Photo Documentation

Sediment collected from first bail of first round of bailing (4 ml/L sand, 600 ml/L total solids).





MW-11 - Photo Documentation

Sediment collected from last bail of first round of bailing (20 ml/L sand, 300 ml/L total solids).

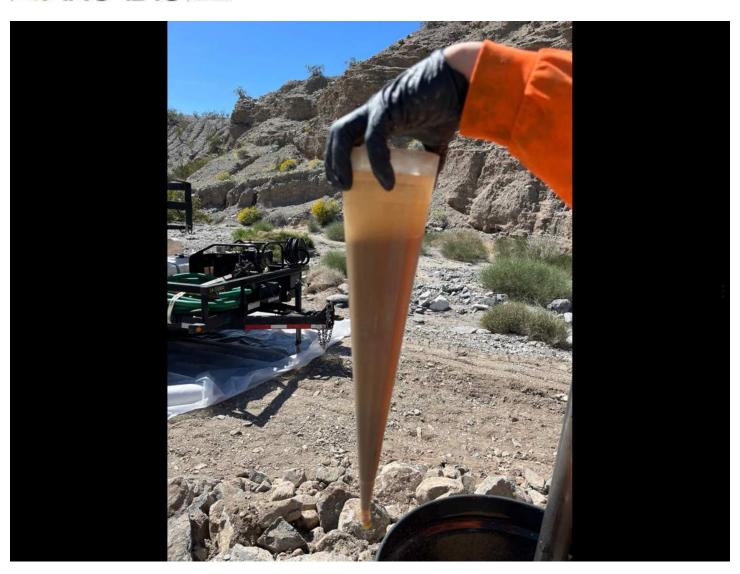




**MW-11** - Photo Documentation

Sediment collected from first and last bails of first round of bailing.









Sediment collected from last bail of second round of bailing (125 ml/L fine sand, 460 ml/L total solids).





MW-11 - Photo Documentation

Sediment collected from first and last bails of second round of bailing.

# MW-28-025

CLIENT NAME: PG&E Arcadis PROJECT NO: 30106892	DAILY WELL CONSTRUCTION REPORT	REVISION NO: 2	ORT DATE: 5/16/2023 SION NO: 2 SION DATE: 5/18/2023		
PG&E FIELD REPRESENTATIVE: David Diaz	PROJECT NAME / LOCATION: PG&E Topock GW Program, Needles, CA	-			
PG&E CONSTRUCTION MANAGER: David Diaz	PROJECT DESCRIPTION: MW-28-025 Redevelopment				
PROJECT MANAGER: Brian Prowd	CONSTRUCTION TASK MANAGER: Zach Hamer	<b>QA INSPECTOR(s)</b> Sean McGrane	:		
FIELD CONSTRUCTION/SAFETY MANAGER: Mat Beshears	WEATHER: Sunny	<b>TEMPERATURE:</b> 77-109 F	<b>WIND:</b> 3-11 mph		
PERSOI	NNEL ONSITE AND LENGTH OF SHIFT				
ABC Drilling (11.5 hours total)					
Dom Gonzalez - 11.5 hrs					
Arcadis (12 hours total)					
Mathew Beshears - 12 hrs					
TOTAL HOURS - 23.5 personnel hours					
	EQUIPMENT ONSITE				
ABC Drilling  ■ 2022 F-550 (development rig, 475 HP) - 10 hot  Arcadis  ■ 2022 Toyota Rav 4 (203 HP) - 4 hours total	urs total				
SUMM	IARY OF WORK PERFORMED TODAY				
Field Activities Today					
<ul> <li>Setup on MW-28-025.</li> <li>Completed a round of mechanical development at Began a round of pumping at MW-28-025.</li> <li>Removed approximately 60 gallons of wastewate</li> <li>Cleaned up and secured site.</li> </ul>					
	HEALTH AND SAFETY				
Was A Job Safety Meeting Held This Date?		⊠ Yes	□ No		
Were there any lost-time accidents this date? (If Yes, attach	copy of completed OSHA report)	☐ Yes	⊠ No		
Was a Confined Space Entry Permit Administered This Date	? (If Yes, attach copy of each permit)	☐ Yes	⊠ No		
Was Crane/Manlift/Trenching/Scaffold/HV Electrical/High V statement or checklist showing inspection performed)	Vork/Hazmat Work Done? (If Yes, attach	☐ Yes	⊠ No		
Was Hazardous Material/Waste Released into the Environm proposed action)	ent? (If Yes, attach description of incident and	Yes	⊠ No		
TAILGATE MEETING/SAFETY DISCUSSIONS:					
<ul> <li>Housekeeping</li> </ul>					
Stop Work Authority					
Use of a spotter					
Work to be done for the day					
Traffic safety					

	)PERATIONS / PR	ODUCTION REPORT		
PLANNED WORK/TEST THIS WEEK:				
Well Development				
VISITORS AND DISCUSSIONS:				
Maria (Transcon) visited to observe work.				
	QUALITY CO	NTROL REPORT		
No Materials Reported				
No Samples Reported				
No Testing Reported				
QUALITY AND/OR PRODUCTION ISSUES AND RESC	DLUTIONS: None			
	REGULATORY CO	MPLIANCE REPORT		
PERMIT CONDITIONS THAT ARE OUT OF COMPLIA	NCE: None			
WASTE A	ACCUMULATION/S	STOCKPILE AREA INSP	ECTION	
Inspection Performed By: N/A		Accumulation /Stockpile Area	N/A	
		Inspected:		
	STORMWAT	ER INSPECTION		
Inspection Performed By: N/A	<b>Deficiencies/Corr</b> N/A	ective Actions Require	ed?	
Required BMPs in Place:	Comments?			
N/A	<u> </u>			
	General	Comments		
<ul> <li>A bend in the well at approximately 5-6 feet not impede the progress of work.</li> <li>The crew observed a safety standdown for a</li> </ul>			·	
·	pproximately 45 mi	nutes following reports	or lightning w	ithin 10 miles of the work area.
Daily Report Signature:	P	7		

### MW-28-025 Well Redevelopment Log

0												2	
	9,	ARCA	DIS I	A Consideral							PG	1 of 3	
					Project Name	PG&E Topos	k GW Monito	ring Program	m 	Jara	ARCADIS I	ob Title: Staff gooks is t	
100	Date	(s) 5/16/	2023		W 30106892		Arcadis	Oversighti	7000	17	Screen Interv	15.10 65.10 612	
_	Well	10 MW	-25-28	Measur Fc.	ing Point (MP) (ago/bgs)	1.19	Total Depti	(ft. BMP)	24.6	2 #	bgs) 12 C1 32 91 has		
	(ft. Bi	MP): 10	51	DTW	OTW (fr. bgs): 9.32 Water column /4./6 Diameter of well (in.): 2							Gallons in well: 6-93	
					_		A -A			19/8 KE	5	Wateradded:	
	Sur	Rig oper	ator.Do	Governo	Rig type	F-550	at mg	Railer mak	e and size:	FD)		Water GW	
	_	and	size: 3 2	hahr Good	) Pump m	ake and size:		rensob/		1,4		source:	
	Time	Ta		DTW	Total Depth	Temp *C	pH (± 1.0)	ORP (mV) (± 10.0 mV)	(µ5/em) (±3%)	Turb NTU	DO (mg/L) (± 0,3 mg/L)	Notes/Gallons Removed/Water Clarity	
	0744			M (FE BMP	21.48	-	-	_	-	-	-	sett	
	080			-	_	~	_		_	_	-	16 red-heal sandy 03gal	
	0614		/		_	_	_	_		_	-	saa	
	08/5			Ē	-	_	_	_	_	_	-	541	
	0870	-		_	-	_	_	_	_		_	saa	
	682			-	-			_		_	_	saa	
	0520									_	-	O.3 gel Some Sond	
	0820	5 1		10.54	24.45	_		_	-	_		soft	
	0634			- [0.57	-			_	_			bon/some said	
2	064		1		-						<u></u>	Saa	
	1000			+-				_			-	S49	
	0941	2 1				_		_					
	074	S bail	, -						-			399	
	0948	5 501	1-			_		-			-	SUC,	
	C#95	Bail	-	_		_	_	_	-	-	-	Sand 0.3751	
ł	000g	bail	-	-	_	_	_	_	-	1-		a rec of starfcomy	
	1008	551	1 -	-	-	-	-	-	-	-	-	399	
1	100	bail	-	10.58	24:49	-	_	-		-	-	Soft	
t	1016	bail	_	-	-	-	-	-	-	-	-	braun/dady 0.1901	
1		1	1_	_	24.50	-	_	-	-	_	-	Soft Chard pades	
1	0:17	101				_	_	_	-	-	-	bound cloudy	
	0:43	bail	-	-							_	Sac Someson	
1	0:52	bail	-		2/1							E-M-	
1	0:53	tay	-	_	24.67	-			1-		15	- 11-	
	0:59	pail	-	10.63	24.61	_	-	-	-	-		<del>soft</del>	
Sa	mple ID a	nd Time:		_									
To	tal gallon	s remove	d at comp F Best	letion of dev	elopment:	150	39110ns						
Art	GOIS STATE			ul >									

Page 1 of 3

~	^DIS	aller (	Proje	act Name: oc	SE Topack GV	N Monitorine	Program					
	G	الدردد									PG	2 , 3
		RCAD			rojest Name:	PCAC TISSUE	GW Monitori	ng Program oversight: 2	. 18.	hears v		mw-28-25
Un.	Date(s)	7/4/13			10100892		Arcadit 0	presentation:	PERSONAL PROPERTY.		cock from /LT	Notes/Gallons
-	Time			DTW	Total Depth		pir ( (+1.6) (+		(+ 3%) (=	18.6 NTU)	(± 0.3 mg/L)	Barnoved/Water Clarity brown cloudy 0.2301 Scare Stord
	1110	bui	)	(FE. BARP)	(FL RIMF)	Temp °C	(+16)		-	-	-	Soft
	1111	ton	-	-	24.67		-	_	-		_	4-196tee
	1135	Sinh			-	-	-	-	=	=	-	soft
	1153	tag	-	10.90	2270	-	-	-	-		-	14-19 bloc
15	1000	-	-	-	-	-	-	-	-	-		soft
	1200	11110	-	10.50	10.15	-	-	-	-	-	-	Acres - Hartes
	1208	bail	-	-	-	-	-	=	_	_	-	brown , when the
	1219	1 1		-	-	-	-			_	-	566
	1224	bail	_	-	-	-	-			-	-	Saa
	1226		-	1.01	2011	-	-		-	-	-	Soft
	1230	100	-	10,71	24.60	-		_		-	-	brann, mallysus
	1231	bail								-	1-	19-24 bloc
	1245	Storge	-	10.72	10.75					-	1-	soft
	130	759	-	10.72							1-	Soft
	1352	tag	-	10.69	20.00			-	=	-	-	Lower, mostly,
	1402	bail	-	-	-			_	_	-	-	Saa Saa
	1417	bail	-					_	_		-	Saa
	1414	boil	-								1	599
	1419	bail	-				-					42001 599
	1430	bail	-	1000	-							soft
	1432	try	-	10.73			-	-		-		
	1457	tags	-	1075	-	-	0	1		-		-
1	457	ump	set	at	16'	btac	Sor	intal	e			
	1500	pump	-	-	-	-					-	- punp on
1	1501	pump	-	-	-	-	-	-	-	-	-	pumpost
İ	1503	au	-	10.73	-	-	-	-	-	1		
н	rar	gump	-	-	0		-	-				pump on
٠			1.25	11,25	21.3	7.30	7.30	763	127	8 51		82 /
		prop	1.25	11.26	-	21.1	7.32	36.8	The second second		26 0.	79
1	515	amp						The state of the s	1.0.		Δ	On .
1	520	nut	1.65	11.27		21.1	722	479	5 17/	3 119	240	77 6 allhal W
1	251	CAMILI	1.25	11.23		21.2	7.32	11/11	120	2 40	21 0	77 pumpintake at 18
		ump	1.25	11.25	~	212	7.32	144.6	116	5.	110	.00

Page 2 of 3

### MW-28-025 Well Redevelopment Log NCRE Topock GW Monitoring Program AARCADIS B MW-28-25 ann 5/14/13 Arcadis Oversight: 746 + Best Las Well 10 Tempe (1.10) (2.10 (2.10 (2.10)) (2.10) (2.1 1535 pump 1.25 21.0 7.32 32.8 1958 443 0.46 proprietale set to 20 6toc 11.25 emp 1.25 11.25 1550 pup 1.00 11.25 211 732 287 1258 4.62 0.43 210 732 18.7 1258 5.16 0.42 pump inthesteloze 6 tec pump 1.00 11.25 gamp of organispuped 1550 5/19/23 0644 pump in well 0655 pump on pump set at 22 6000 (interles) pump 1.0 11.40 20.6 7.28 195.3 1372 2.12 1.10 OPED 20.6 7.30 155.6 1364 1.00 0.78 20.6 7.30 155.6 1364 1.00 0.78 20.6 7.30 127.3 1362 0.74 0.67 20.7 7.31 114.1 1363 0.60 0.60 4.644, 0.60 20.7 7.31 94.0 1361 6.33 0.56 20.7 7.32 71.9 1354 0.49 0.49 0705 prop 1.0 11.40 0710 pump 1.0 11.40 0715 pump 1.0 11.40 0725 pump 1.0 11.40 0730 pump 1.0 11.40 0735 pump 1.0 11.40 0740 pump 1.0 11.40 0745 pump 1.0 11.40 0750 pump 1.0 11.40 20.7 7.32 64.5 1348 Q4 0.48 tublily 0.48 20.7 7.32 57.9 1343 0.24 0.48 20.7 7.33 50.3 1340 O.L8 0.48 50, 1 purped 207 7 33 43.7 1335 0.23 0.48 20.7 7.33 36.0 1333 0.34 0.48 20.7 7.33 34.3 1329 0.26 0.49 0755 pump 1.0 11.40 0600 prop 1.0 11.41 20.7 7.33 24.7 1325 4.84 0.49 pump intike rand to 18 blace 0805 pmp 1.0 11.43 0810 pump 1.0 11,43 0815 pump 1.0 11,43 20.7 7.33 26.5 1319 1.43 0.49 20.7 7.33 23.4 1316 0.86 0.50 20.8 7.33 22.2 1316 2.77 0,50 purp intel'14 bloc 0800 punp 1.0 11.43 20.8 7.33 20.1 1315 1.18 0.50 0825 pump 1.0 11.43 pump 1.0 11.43 0830 20.8 7.34 18.2 1314 0.67 0.50 oinp off 0831 pump 11.01 24.60

2/8 5/19/13

Page 3 of 3



Results of first round of bailing, which occurred on 5/16/23. Left bottle shows first bailer removed, middle bottle shows the 14th bail, and right bottle shows last bailer of the round which was the 20th bail.

# MW-28-025 Photo Log

Results of second round of bailing, which occurred on 5/16/23. Left bottle shows first bailer removed and right bottle shows last bailer of the round.



Results of second and third round of bailing, which occurred on 5/16/23. From left to right: The first bottle shows the first bailer removed from the second bailing round. The second bottle shows the last bailer removed from the second bailing round. The third bottle shows the first bailer removed from the third bailing round. The fourth and rightmost bottle shows the last bailer removed from the third bailing round.

# MW-30-030

(A DCA DIC	DAILY WELL CONSTRUCTION	REPORT DATE: 5/1	3/2023
ARCADIS	REPORT	REVISION NO: 3 REVISION DATE: 5/	'14/2023
CLIENT NAME: PG&E Arcadis PROJECT NO: 30106892			
PG&E FIELD REPRESENTATIVE: David Diaz	PROJECT NAME / LOCATION: PG&E Topock GW Program		
PG&E CONSTRUCTION MANAGER: David Diaz	PROJECT DESCRIPTION: MW-30-30 redevelopment		
PROJECT MANAGER: Brian Prowd	CONSTRUCTION TASK MANAGER: Zach Hamer	QA INSPECTOR(s) Sean McGrane	:
FIELD CONSTRUCTION/SAFETY MANAGER: Mat Beshears	WEATHER: Sunny	<b>TEMPERATURE:</b> 72-103 F	<b>WIND:</b> 7-23 mph
PERSO	ONNEL ONSITE AND LENGTH OF SHIFT		
ABC Drilling (11.5 hours total)			
Dom Gonzalez - 11.5 hrs			
Arcadis (12 hours total)			
Mathew Beshears - 12 hrs			
TOTAL HOURS - 23.5 personnel hours			
	EQUIPMENT ONSITE		
<ul> <li>2022 F-550 (development rig, 475 HP) - 10 ho</li> <li>Arcadis</li> <li>2022 Toyota Rav 4 (203 HP) - 4 hours total</li> </ul>	ours total		
SUMI	MARY OF WORK PERFORMED TODAY		
Field Activities Today			
<ul> <li>Setup on MW-30-030.</li> <li>Continued mechanical development at MW-30-</li> <li>Removed approximately 3 gallons of wastewate</li> <li>Cleaned and secured site.</li> </ul>	-030. er at MW-30-030 during bailing. (See general com	ments).	
	HEALTH AND SAFETY		
Was A Job Safety Meeting Held This Date?		⊠ Yes	□ No
Were there any lost-time accidents this date? (If Yes, attack	h copy of completed OSHA report)	☐ Yes	⊠ No
Was a Confined Space Entry Permit Administered This Date	e? (If Yes, attach copy of each permit)	☐ Yes	⊠ No
Was Crane/Manlift/Trenching/Scaffold/HV Electrical/High statement or checklist showing inspection performed)	Work/Hazmat Work Done? (If Yes, attach	☐ Yes	⊠ No
Was Hazardous Material/Waste Released into the Environr proposed action)	ment? (If Yes, attach description of incident and	☐ Yes	⊠ No
TAILGATE MEETING/SAFETY DISCUSSIONS:			
<ul> <li>Housekeeping</li> </ul>			
Stop Work Authority			
Traffic safety			
Use of a spotter			
Work to be done for the day			
OP	ERATIONS / PRODUCTION REPORT		

PLANNED WORK/TEST THIS WEEK:				
Well Development				
VISITORS AND DISCUSSIONS:				
Alexander Smith (AE) visited to observe more	dification	ns to the MW-39-040 pad.		
Brandy McWain and Maria Dominguez (Trail	nscon) vi	isited to observe modifications to	the MW-39-04	40 pad.
GWP modified the MW-39-040 pad and vac	cuum wa	stewater from the tote.		
	QI	UALITY CONTROL REPORT		
No Materials Reported				
No Samples Reported				
No Testing Reported				
QUALITY AND/OR PRODUCTION ISSUES AND RESO	OLUTION	NS: None		
	REGUL	ATORY COMPLIANCE REPORT		
PERMIT CONDITIONS THAT ARE OUT OF COMPLIA	ANCE: No	one		
WASTE A	ACCUM	ULATION/STOCKPILE AREA INS	PECTION	
Inspection Performed By: N/A		Accumulation /Stockpile Area Inspected:	N/A	
'	ST	ORMWATER INSPECTION	<u> </u>	
Inspection Performed By: N/A	<b>Deficie</b> N/A	encies/Corrective Actions Requi	ired?	
Required BMPs in Place: N/A	Comm	ents?		
		General Comments		
<ul> <li>Archeology and biology onsite to observe N</li> <li>During bailing at MW-30-030, sediment cor the well in order to continue mechanical de unable to be retrieved from the well. The de</li> <li>The MW-30-030 well monument and well continued.</li> </ul>	ntinued t velopme evelopme	o infiltrate the well inhibiting the ent. Due to the high volume of sarent crew will attempt to remove the	ability to effect nd, the surge bl he surge block	lock became stuck and was
Daily Report Signature:	-	74		

ARCADIS	DAILY WELL CONSTRUCTION REPORT	REPORT DATE: 5/14/2023 REVISION NO: 2 REVISION DATE: 5/15/2023			
CLIENT NAME: PG&E Arcadis PROJECT NO: 30106892		REVISION DATE: 5/	15/2023		
PG&E FIELD REPRESENTATIVE: David Diaz	PROJECT NAME / LOCATION: PG&E Topock GW Program				
PG&E CONSTRUCTION MANAGER: David Diaz	PROJECT DESCRIPTION: MW-30-030 and MW-39-040 Redevelopment				
PROJECT MANAGER: Brian Prowd	CONSTRUCTION TASK MANAGER: Zach Hamer	<b>QA INSPECTOR(s)</b> Sean McGrane	:		
FIELD CONSTRUCTION/SAFETY MANAGER: Mat Beshears	WEATHER: Sunny	<b>TEMPERATURE:</b> 72-103 F	<b>WIND:</b> 7-15 mph		
PERSONI	NEL ONSITE AND LENGTH OF SHIFT				
ABC Drilling (11.5 hours total)  • Dom Gonzalez - 11.5 hrs  Arcadis (12 hours total)  • Mathew Beshears - 12 hrs  TOTAL HOURS - 23.5 personnel hours					
	EQUIPMENT ONSITE				
ABC Drilling  • 2022 F-550 (development rig, 475 HP) - 10 hour Arcadis  • 2022 Toyota Rav 4 (203 HP) - 4 hours total  SUMMA  Field Activities Today  • Setup on MW-30-030.  • Attempted to remove sand locked surge block at N  • Added approximately 3 gallons of freshwater at MN  • Breakdown MW-30-030.  • Setup at MW-39-040.  • Airlifted at MW-39-040.  • Removed approximately 20 gallons of wastewater at MN  • Cleaned and secured site.	ARY OF WORK PERFORMED TODAY  WW-30-030. (See general comments).  W-30-030 during jetting.				
Clearled and secured site.					
	HEALTH AND SAFETY		T		
Was A Job Safety Meeting Held This Date?		⊠ Yes	□ No		
Were there any lost-time accidents this date? (If Yes, attach c	opy of completed OSHA report)	Yes	⊠ No		
Was a Confined Space Entry Permit Administered This Date?	(If Yes, attach copy of each permit)	☐ Yes	⊠ No		
Was Crane/Manlift/Trenching/Scaffold/HV Electrical/High Wo statement or checklist showing inspection performed)	ork/Hazmat Work Done? (If Yes, attach	☐ Yes	⊠ No		
Was Hazardous Material/Waste Released into the Environment proposed action)	nt? (If Yes, attach description of incident and	☐ Yes	⊠ No		

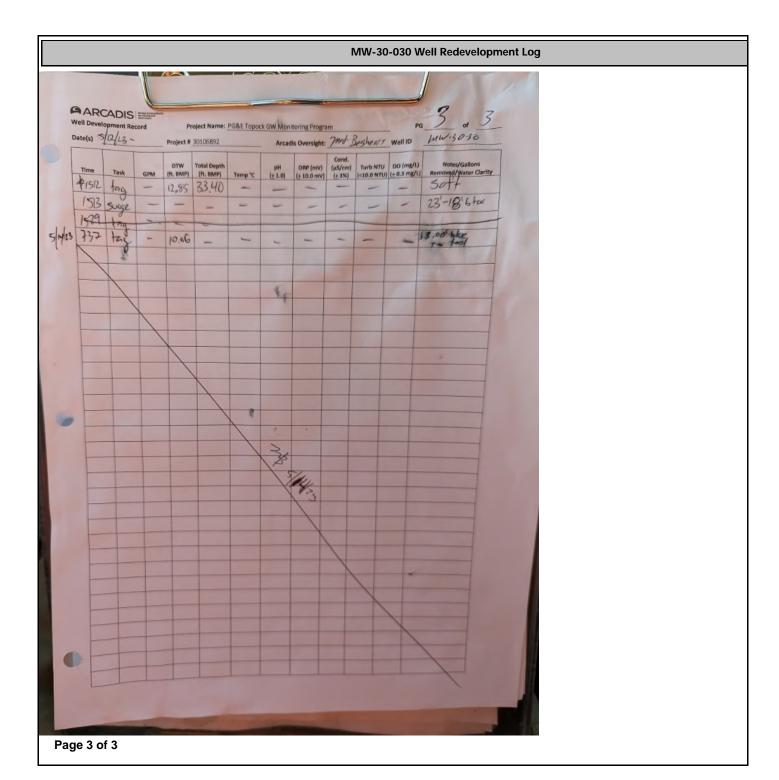
TAILGATE MEETING/SAFETY	/ DISCUSSIONS:				
<ul> <li>Housekeeping</li> </ul>					
Stop Work Authorit	:у				
<ul> <li>Traffic safety</li> </ul>					
<ul> <li>Use of a spotter</li> </ul>					
Work to be done for	or the day				
	OPER/	ATIONS / PR	ODUCTION REPORT		
PLANNED WORK/TEST THIS	WEEK:				
Well Development					
VISITORS AND DISCUSSION	IS:				
Maria Dominguez (*)	Transcon) visited to observe wor	rk.			
	q	QUALITY CO	NTROL REPORT		
No Materials Reported					
No Samples Reported	_				
No Testing Reported	_				
QUALITY AND/OR PRODUCT	TION ISSUES AND RESOLUTIO	NS: None			
	REGU	LATORY CO	MPLIANCE REPORT		
PERMIT CONDITIONS THAT	ARE OUT OF COMPLIANCE: N	lone			
	WASTE ACCUM	IULATION/S	TOCKPILE AREA INSPE	CTION	
Inspection Performed By:	N/A		Accumulation	N/A	
			/Stockpile Area Inspected:		
			ER INSPECTION		
				12	
<b>Inspection Performed By:</b> N/A	N/A	iencies/Corr	ective Actions Require	11	
Required BMPs in Place:		nents?			
N/A					
		General	Comments		
up. During the atter	ve sand locked surge block at M mpt the well casing and monum le on the surge block and left it	ent appeare	d to move approximately		
Daily Report Signature:		m	~		
	<del></del>				

Dat	els) 3	pment Reco		Project # 3	Point (MP)	1.5	Arcad	lis Oversight	: Mart		3 ARC	ADIS Job Title: Staff Geologist interval (ft. 13,92-33,92
	DTW BMP):	12.60		ft. (Sg)	11.16		Total Dep	21.20	Diameter	of well (in.	bgs)	
	Rig	operator:								1.25' X		Wateradded:
	Surge bl	ock make and size:	1.5/5	1,75"	7' Pump ma	ke and size:	1	//A			,	Water GW
	Time	Task	GPM	DTW (ft. BMF)	Total Depth (ft. BMP)	Temp *C	pH (± 1.0)	ORP (mV) (± 10.0 mV)	Cond. (µS/cm)	Turb NTU (<10.0 NTU)	00 (mg/L	Notes/Gallons
1	1415	tora	-	12.66	25.03	-	17 4307	-	(+3%)	-	- Carring	soft
1	412	bail	-	-	_	_	-	-	_	-	-	ottokorich roots
100	1430	bail	-	-	-	-	-	-	-	-	-	6599
1	431	bail	-	~	-	-	-	-	-	-	-	Saa norcots
-	433	bail	-	-	-	-	-	-	-	-	-	Wedt greylvidady
1	434	bouil	-	-	-	-	-	-	_	-	-	Saa
-	436	bail	-	-	-	-	-	-	-	-	-	599
	438	bail	-	-	-	-	-	-	-	-	-	bralgres (cloudy
	1439	bail	-	-	-	-	-	-	-	-	-	Saa
	1443	bail	_	-	-	-	-	-	-	-	-1	Walchardy 0.741
-	1444	baj	-	-	-	-	_	-	-	-	-	SCION
-	1446	bail	_	-				-		-	-	Saa
1	1450	boil	=	-	-		-	-	-	-	-	Saa
	(45)	611		-			-			-		saa orn/t/m/y
	1452	bail	-	=		-	-	-	_	-	_	Sagal
	1457	bail	-	-	-	-	-	-	-	-	_	Saa
	1500	ball	-	0.44	33.38	-	-	-	-	-		Michigan To
13/13	0745	1.1	-	12.55	32.92	-	-	-	-	-	_ 5	CT YAN
-	0811		-	-	-	-	-	-	-	-	- 8	2.3 ga ( 150 1 hope )
	817	bail	-	100	33.83	-	-	-	-	-	- 5	Herry Charles
	518	tag	-	12.57	52.0	-	-	-	-	-		16/d T1) 5-18/6/00
	830	Surge	47	NA					-	-	10	210
0		ID and Time		pletion of d	evelopment:	-						
	Arcadis	Staff: 7	NY 729	West -								

Page 1 of 3

									N	1W-30-	030 W	ell Redevelopment L
O	ARC	ADIS	Parties of the Partie						_			3
W	ven Develo	Prent Rec	cord	Pri	oject Name: J	G&E Topo					- '	6 2 01 -
0	munici) 2	10/13-	-	Project #	30106892		Arcad	is Oversight:	mas	1 Beslus	- Well ID	MW-30-30
1	Time	Task	GPM	DTW (ft BMP)	Total Depth (ft. BMP)	Temp *C	pH (±1.0)	ORP (mV) (± 10.0 mV)	Cond. (μS/cm) (±3%)	Turb NTU (<10.0 NTU	DO (mg/t ) (+ 0.3 mg/	L) Removed/Water Clarity
-	900	tag	-	-	22.80	-	-	-	-	-	-	soft
1	901	tag	-	-	21.75	-	-	-	-	-	-	soft
	903	tru	-	-	21.20	-	-	-	-		-	Soft
	1000	tag	-	12.68	20.93	-	_	-	-	_	-	Soft
	1005	bail	-	-	-	-	_	_	-	_	_	bulgary very don't beil or syn bailing very bailing builting builting builting to 1.5 x 5 baile
	1126	bail	-	-	_	~	-	-	-	-	-	bratery way tery baile
	1124	bail	-	_	-	-	-	-	_	_	-	bin-grey Cloudy high volume of sand
	1136	bail	-	-	-	-	-	-	0_	-	-	596
	1157	bail	-	-	-	-	-	-	-	-	-	544
	1158	ten	-	12.98	29.10	-	_	-	-	-	-	-
	1352	tog	-	12.75	2990		-	-	_	-	-	
	1324	1 164	-	~	32.90	-	-	-	-	-	-	- soft
	1350	tay	-	1279	302492	-	-	-	-	-	-	- soft
-	1400		-	1-	-	-	-	-	-	-	-	Very sembly
0	1403		-	-	-	-	-	-	-	-	-	Sag 102 sad
	141)	- bai			22.00	-		-	-	-	-	544
	1402	tag	r.	13.0	32.00	-		-	-	-	- 6	en/cloudy
	1416			-	29.80	-	-	_	-		_	
	142		9 -	-	-	-	-				_	
	142	-		_	31.47	-	-	-	-	-	_ 6	Sand Soft
	14		0	-	-	-	-	-	-	-	- b	have plean-n-
	14	12 ts	-		31.65	-	-	-	-	-	-	- Soft
١.		51 bo	n -	-	-	-	-	_	-	-	- 4	on, mesty send
١.	14	1	ay		32.10	-	-	-	-	-	-	- Soft n, mostly send
١.		100	ail -	_	33.85	-	-	_				50 Stokes Sole
١.			ey -		- 32.2	1 -	-	-	-	-		Soft
П		504 1	ay		31.52	-	-	-	-	-	- 1 -	30[1
	100	1	- Year	-	33.83	-	-	-	-		- bo	aun, diges
		510 1	ray ·	-	277			-		-	- he	vol
	L	- 3	wing.								1	
												1
		-			2			-				1

Page 2 of 3



# MW-30-030 Photo Log

Results of first round of bailing, which occurred on 5/12/23. Left bottle shows first bailer removed and right bottle shows last bailer of the round which ended up being the 16th bail. First redevelopment day.

# MW-30-030 Photo Log

Results of second round of bailing, which occurred on 5/13/2023. Left bottle shows first bailer removed and right bottle shows last bailer of the round which ended up being the 5th bail. Second redevelopment day.

# MW-35-060

## MW-35-060 Well Redevelopment Log

Date(s	Z /e/-		,	30106892		Arcadi	oring Progra	m mat B	ichears	PG	on Title: Statt gwolog
Well I	Anu!	5-60	Measurin ft. (a	30106892 g Point (MP) gs /bgs)	Hoe	Total Dept	th (ft. BMP)	₹6.0	34	Screen Intervi ligs)	11th 4/33-61.33
(ft. BN	TW 19): 26		OTW (ft. hgs):	_	w	ater column in well (ft):	32.0	Olemater	of well (in.):	2"	Gallons in well. 5.22
	Rig operate	on Don		Rig type:					1"× %		Water N/A
Sun	ge block ma	ke 2131	25 714					e and size:	11		Water GW
100			DIW	Total Depth	ke and size:			Cond.		DO (mg/L)	Notes/Guilons
Boy	-	-	(ft. BMP)	(ft. BMP)	Temp *C		ORP (mV) (+ 18.0 mV)	(µS/cm) (± 3%)	(<10.0 NTU)	(± 0.3 mg/L)	Ramoved/Wrater Clarity
133	100	- DTL	blac :	26.03'	TD (soft)	57.32					
134	7 151	un ba	1 pag	allom/ba	,	_					
1344	200	bail	-0.59	allem   bu	-						
1357	304										
1350			1.2	etal ga	110 00						
1359	tag	+ DTW	26.036	toc TD	(h.d):	10 13					
1415	Jurge		421	119	(100).5	000					
		45'-		_		-					
1505			58 48	-53' _				-			
1530		100000	58	_				-		-	
1555		Surgma		_		-					
				26.15 T.	D(sH)s	8.0	_	-			
1605	12t	bail	0.3	9 sllers/	bail				-	-	
1609	200	1	-							-	-
1613	300	ail	0	gallon	s total	-		-	-	+	
1616	4th	ball	1.2	gallons	tolet	_		-	+	>	24 salling runny
16450				,							
730	tag	DTW	toc:	26.04 14	TOC	off):55	DI bloc	-	-	+	Q3,91/61000
743	bail-										O 3gal brown
748	bail -										0.3g1/ brom
751	bail-	4									O. Sgall bear
0755	Lea -	DTW	toc! DE	12fL	TD 6te	€ 56.0	& Chard	) -	-		
	and Time:	N	A				-				

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## MW-35-060 Well Redevelopment Log

		RCAL evelopme 5/9/2	THE RESCOUNT		Project No	me: PG&E Top				1.00	PG	2 of 3	
	Time 0.800	Task	9	PPM (FL. 8	W Total D	noth	ptt	ORP (mV)	Cond. (µ9/cm)	Turb NTU (<16.0 NTU)	DO (mg/L)	Notes/Gallons Removed/Water Clarity	
	825	12019	2	-	-	-						38'-43'6+00	
		surgi	e	-		+					_	43-48 blac	
	915		-	+	-						_	48' 58' blec 53' 58' blee	
	940	lend	-30									35-35 4-66	
	941	ting	_	_	26.45	II TOB	And 3.5	\$ 00	soft.				
	947	200				1100	-	0.00	2031		_	0.394/ hom	
	956	bail	1 51	1	-						_	1.591 tohil 14.6	Grant.
	1002	tors	D	Who	: 26.	E F1	TDSt	£158.0	3 (hed)	)			
	1116	teg		w blok	: 261	5 H.						pumpet 48' ble	Stert
	1/20	to fer	-	ny									1012.3
	1/25	puge	1.8	3 26.6	3 -	27.2	7.26	120.0	6010	372	2,21	-	
	1130	proje	1.8-	7 26,3	3 -	27.2	7.31	78,4	5947	198	2,14	-	
1	135	purge	1.80	26.3		27.2	1	61.6	5869	19,1	2.13		
4	1140	15	1.464	-		27.2	1	55.1	5825		2.14	10.3 NTU	-
	1195	perge	1.83	-	-	27.2		54.8		9.71	2.13		
	1000000	proje		76.3		27.2	-	56.3	5801	6.73	2.17	-	-
	1156	purge	1.5	et.	1	27.2	7.34	57.7	5770	4.50	2.18	1	-
	man	more	1.80		blec	-	-	-		20.1			-
		roge				27.2	7.34	58.5	5786		2.17	-	
ı	. 9	vige		26.3		77.2	7.35	60.0	5814	26.3	2.19	-	-
ł		vige 1				77.2	7.35	610	5783	6.98	219	-	4
	nic I			6'		TP.	701	1211		-	-	_	
- 6	1 0.00	1 7		02631	-	27.2	7.36	62.4	5628	-	219	The sale of the sa	not ve
- 19				26.31	-	27.2	7.36	614	5900	6018	220	-	
-	221 W	iore pu	mp to	37'6			-	-	-	-	-	~	
	25	19 /		26.31	-	27.3	7.38	64.3	5424	436	2.40		
ш	Po	ige l	-	26.35		27.3	7.37	64.5	57.46	-	2.23		
12	75 pur	_		24.33	-	27.3	7.37	64.5	5744	1000	2.23	-	
17	40 pu	K		76.53	-	27.3	7.37	63.7	5714	5.4	2.25	~	
12	45 pu	19e /	80	26,33	-	27.3	738	64.9	5735	2.59	2.25	-	
1	50 00	ge 11	80	26.33	-	27.3	738	66.2	5745	-	2.25	-	

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# 

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Results of first round of bailing on 5/9/2023. Left bottle shows first bailer removed and right bottle shows last bailer of the round which ended up being the 4th bail. First redevelopment day.

# MW-35-060 Photo Log First round of bailing. Left Second round of bailing. Left bottle shows first bailer bottle shows first bailer removed and right bottle removed and right bottle shows the last bailer of the shows the last bailer of the round which ended up being round which ended up being the 4th bail. the 5th bail.

Results of first (left) and second (right) rounds of bailing on 5/10/2023. Second redevelopment day.

# MW-39-040

CLIENT NAME: PG&E Arcadis PROJECT NO: 30106892	DAILY WELL CONSTRUCTION REPORT	REPORT DATE: 5/1 REVISION NO: 1 REVISION DATE: 5/	
PG&E FIELD REPRESENTATIVE: David Diaz	PROJECT NAME / LOCATION: PG&E Topock GW Program		
PG&E CONSTRUCTION MANAGER: David Diaz	PROJECT DESCRIPTION: MW-39-040 and MW-28-025 Redevelopment		
PROJECT MANAGER: Brian Prowd	CONSTRUCTION TASK MANAGER: Zach Hamer	QA INSPECTOR(s) Sean McGrane	:
FIELD CONSTRUCTION/SAFETY MANAGER: Mat Beshears	WEATHER: Sunny	<b>TEMPERATURE:</b> 77-103 F	WIND: 3-11 mph
	NEL ONSITE AND LENGTH OF SHIFT	17 100 1	5
ABC Drilling (11.5 hours total)  Dom Gonzalez - 11.5 hrs  Arcadis (12 hours total)  Mathew Beshears - 12 hrs  TOTAL HOURS - 23.5 personnel hours			
	EQUIPMENT ONSITE		
ABC Drilling  • 2022 F-550 (development rig, 475 HP) - 10 hour.  Arcadis  • 2022 Toyota Rav 4 (203 HP) - 4 hours total	s total		
SUMMA	RY OF WORK PERFORMED TODAY		
<ul> <li>Field Activities Today</li> <li>Setup on MW-39-040.</li> <li>Began a round of mechanical development at MW</li> <li>Removed approximately 0.5 gallons of wastewater</li> <li>Attempted a round of pumping at MW-39-040. (See Removed approximately 83 gallons of wastewater of Breakdown at MW-39-040.</li> <li>Setup at MW-28-025.</li> <li>Cleaned and secured site.</li> </ul>	during bailing at MW-39-040. ee general comments).		
	HEALTH AND SAFETY		
Was A Job Safety Meeting Held This Date?		⊠ Yes	□ No
Were there any lost-time accidents this date? (If Yes, attach co	opy of completed OSHA report)	☐ Yes	⊠ No
Was a Confined Space Entry Permit Administered This Date? (	(If Yes, attach copy of each permit)	☐ Yes	⊠ No
Was Crane/Manlift/Trenching/Scaffold/HV Electrical/High Wo statement or checklist showing inspection performed)	ork/Hazmat Work Done? (If Yes, attach	☐ Yes	⊠ No
Was Hazardous Material/Waste Released into the Environmen proposed action)	nt? (If Yes, attach description of incident and	☐ Yes	⊠ No

TAILGATE MEETING/SAFET	Y DISCUSSIONS:				
<ul> <li>Housekeeping</li> </ul>					
Stop Work Author	ity				
<ul> <li>Traffic safety</li> </ul>					
<ul> <li>Use of a spotter</li> </ul>					
Work to be done f	or the day				
		OPERATIONS / PI	RODUCTION REPORT		
PLANNED WORK/TEST THI	S WEEK:				
Well Development					
VISITORS AND DISCUSSION	NS:				
Maria Dominguez	(Transcon) visited to obse	erve work.			
		QUALITY CO	NTROL REPORT		
No Materials Reported					
No Samples Reported					
No Testing Reported	_				
QUALITY AND/OR PRODUC	TION ISSUES AND RESO	DLUTIONS: None			
		REGULATORY CO	OMPLIANCE REPORT		
PERMIT CONDITIONS THA	F ARE OUT OF COMPLIA	NCE: None			
	WASTE A	ACCUMULATION/S	STOCKPILE AREA INSPE	CTION	
Inspection Performed By:	N/A		Accumulation	N/A	
			/Stockpile Area Inspected:		
	,I	STORMWAT	ER INSPECTION		
Inspection Performed By:			rective Actions Require	d?	
N/A Required BMPs in Place:		N/A Comments?			
N/A		Comments:			
		General	Comments		
	crew attempted to pump a redevelopment will be eva			er sediment	continued to infiltrate the well.
Daily Report Signature:		×			

Company   Comp	Date	Project Name: PG& Topock GW Monitoring Program  Acado Porright Med Brokus  Acado Porright Med Broku	Development Record  Development Record  Development Record  Development Record  Development Record  Development Record  Project A 2006823  Arcado Overrighe, Park Bechars  Arcado Overrighe, P											N	/W-39	9-040	Well Redevelo	pmen
The state of the body of the b	The state of the s	The state of the s	The state of the s		G	ADC	ADIC			1							1	-
Well 10   Met. 39.40   Measuring Point (MP) 2   Total Depth (R. BMP)   42.40   Secret Interval (R. 33.03 - 53.00   Measuring Point (MP) 2   Total Depth (R. BMP)   42.40   Secret Interval (R. 33.03 - 53.00   Measuring Point (MP) 2   Total Depth (R. BMP)   42.40   Secret Interval (R. 33.03 - 53.00   Measuring Point (R. BMP)   42.40   Secret Interval (R. 33.03 - 53.00   Measuring Point (R. BMP)   42.40   Secret Interval (R. 33.03 - 53.00   Measuring Point (R. BMP)   42.40   Secret Interval (R. 33.03 - 53.00   Measuring Point (R. BMP)   42.40   Measuring Point (R. BMP)   42.40   Measuring Point (R. BMP)   43.00   Measuring Point (R. BMP)   42.40   Measuring Point (R. BMP)   43.00   Measuring Point (R. BMP)	Well ID   Mile 39-40   Measuring Point (MP) 2   Total Depth (R. BMP)   42.40   Secret Interval (R. 33.03 - 43.06	Well ID   Mile 39-40   Measuring Point (MP) 2   Total Depth (R. BMP)   42.40   Secret Interval (R. 33.03 - 43.06	Well 10   Mell 3, 3, 40   Messaring Point (MP) 2   Total Depth (R. BMP)   42,40   Serve interval (R. 33,03 - 53,00		***	ed Develor	oment there	ord	Pro	ject Name:	PG&E Topo	ck GW Mor	nitoring Prog	gram		_	1 01 716	-
10   10   10   10   10   10   10   10	(n. 1849): 12:55 Orw. (n. 1849): 10:55 Water column 2]. 98 Diameter of well (n.) 1  (n. 1849): 12:55 Orw. (n. 1849): 10:55 Water column 2]. 98 Diameter of well (n.) 1  (n. 1849): 12:55 Orw. (n. 1849	(n. 1849): 12:55 Orw. (n. 1849): 10:55 Water column 2]. 98 Diameter of well (n.) 1  (n. 1849): 12:55 Orw. (n. 1849): 10:55 Water column 2]. 98 Diameter of well (n.) 1  (n. 1849): 12:55 Orw. (n. 1849	1									Arca	dis Oversigh	Fruit B	eskres	ARCA	ois Job Titles Design	400
The BMP  12   S   Ohn	The Barry: USS OF the past 10.55 Water column 21.95 Diameter of well (in.)  Rig operator. Don John Live type F50 68 Galler make and size. 1/2" x 36" x 36" x water added.  Surge block make and size. MA  Time Task Gran Don Toda Depth of the Barry (and the barry of the Barry (and the barry) (and the barr	The BAPP: U.S.   U.S.   U.S.   Section   U.S.   Section   U.S.	The BAND: 12.55  Nill operation. Discretize the type: 10.55  Nill operation. Discretize the type: 150 CR2  Surge block make.  and size: M/A  Time: Task Grave 10.55  Time: Tas			Times		_			2'	Total De	pth (ft. BMP	42.4	10	Screen Int	33.03 -	30
Ris operator. Dun 150 13 2 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Ris operation. Lam 50 pt 7 et ms type. F80 CP Baller make and size. 1/2 x 3 C added:  Surge block make.  M/A purp make and size. 1/2 th 3 C source.  Time. Task Grow. (P. Ball). Purp make and size. 1/2 th 1/2 to 50 ms/. (C. 100 ms/.) (C. 100	Ris operation. Lam 50 pt 7 et ms type. F80 CP Baller make and size. 1/2 x 3 C added:  Surge block make.  M/A purp make and size. 1/2 th 3 C source.  Time. Task Grow. (P. Ball). Purp make and size. 1/2 th 1/2 to 50 ms/. (C. 100 ms/.) (C. 100	Ris operator   Lon   John February   150 67     Surge block make   W/A   Pump make and size   V/2 × 36   water   Source     Surge block make   W/A   Pump make and size   V/2   X 36   water   Source     Time   Tima   OPT   Total Depth   Tomp (		(6	t. BMP):	12.55		OTW (ft. bgs):	10.55	W	ater colum in well (ft	31.85	Diameter	r of well (in	. 1	Gallons in well:	
Time Task GMM (Pt. DUP) Trial Depth (C. 10) Cord. (L. 10)	Time Task Grid (P. 1800) Transpic (e. 1.0) (e. 1	1	Time Task Gran Protein Depth Temp & Co. 10.00 (c. 1.00 mm) (c. 1.00 mm			Rig	operator:	Dan 6	onzele	Z Rig type:	F-550 (	142	Baller ma	ike and size	1/2"	×36"	added:	-
Time Test GPM (P. MAP) (1.00 Depth Temp T Cold D	Time Task GPM (P. MAP) Total Depth (P. MAP) Total Depth (P. MAP) (C. 1.0) (	Time Task GPM (P. MAP) Total Depth (P. MAP) Total Depth (P. MAP) (C. 1.0) (	Time Task GPM (P. MAP) Total Depth (P. MAP) Total Depth (P. MAP) (C. 1.0) (					NH	4	Pump ma	ke and size:	Wad	tera	hydrol	:42		source:	-
257 tag - 1255 37.58	1257 to 3 - 1255 37.58	1257 to 3 - 1255 37.58	257 tag - 1255 37.58			Time	Task	GDM		Total Depth		рн	DRP (mV)	Cond. (µ5/cm)	Took MTU	DO (mg/L)	Permoved/Water China	
1/56   Long   12.50   20.40	1/56   doing   13.50   20.40	1/56   doing   13.50   20.40	1/56   decay   13.50   12.40				7	-			Temp C			(+3%)	(<10.0 NTU	(+0.3 mg/L	11 1	
5/1/23 C652 trag - 11.92 4070 TD:40.58 soft  6710 bail	5/4/2 C652 trag - 11.92 (40.70 TD: 40.58 soft C710 beill	5/4/2 C652 trag 11.92 4070 TD:40.58 soft  6710 beil	5/1/2 (652) trag -   11.92 (40.70)		135	11/0-	-61	-	-	-	-	1-	-		-	-	2094 / F. D.	2
0710 bail	0710 bail	0710 bail	0710 bail		11-		tory	-			-	-	-	-	-		to Sovo	ī
0712 bail	0712 bail	0712	0712		5/15/23	1	1	-	11.92	4070	-	-	-	-		-	conty brales	
0715 bir	07 15 bay	0715 bail	0715 bir				-	-		-	-		-	-	1			121
0716 tory - 40.92	0716 to 19 40.92	0716 trag - 40.92	076 to tag - 40.92						_	_		_		-		-		
( ) 0716 bail	(, 0716 5.91	(, 0716 5.91	(, 0716 bail			OHO	tora	-1	-	40.92	-	-	-	_	_	-	-	
0724 pail	0724 pail	0724 pail	0724 pail		0		bail	-	-	-	-	-	-	-	-	1-	Saa	
0726 beil	0716 buil	0716 bail	0726   Scill					-	-		-	-	-	-	-	- /		
0730 told	0730 fmil	0730   10   10   10   10   10   10   10	0730   Dail   Saca   Sa	ı			1				-	_	-	-	-	-		4
673) bill	0732 boill	0732 bail	673) bill	9		the same of							-	-		_		-
0789 bail	0749 bail	0789 bail	0795 bail			-	-	-	-	-	-	-	-	-	-	-		
0740 hail	0744 hay - 40.80	0740 hail	0740 heard					1	-	-		-	-	-	-	-		+
0744 lag - 40.80	07-44 tocy - 40-98	07-44 Pag - 40-88	07-44 tog - 40-08						-			-	-	-	-	-	Saa	
0735 prop 0 - 223 7.92 965 1283 prop 2 - 11.748 39.33	10535 pump 1 10.40.83(sold)  1440 pump 0.5 - 223 7.92 965 1283 over 2.51 cup high sead to 1278 fory - 11.74 39.33	0535 pump 0.5 - 223 7.12 965 1283 over 2.51 Cup high sead 32 bloc 1995 pump 0	0735 prop - 10.40.8 3(sold)  1440 prop 0.5 - 273 7.47 965 1283 over 2.51 cup high send 137 btoc  1748 prop 0				. 1	-	-		-	_	-	-	-	-	You revoved	
1495 pump 0.5 - 273 7.92 965 1283 over 2.51 Cup high span bloc 1278 tay - 11.76 39.33	145 DUMP D	145 Jump 0.5 - 273 7.97 965 1263 over 2.51 Cup high send 137 librar 1278 tay - 11.74 39.33	145 pump 0.5 - 273 7.92 965 1283 over 2.51 Cup high stand 1278 tay - 11.74 39.33				Dump	-	~		_	_	-	-		-	TD:40.83 (sols)	
1778 try - 11.74 39.33 Soft	Sample ID and Time: NA Total pallors ramoved at completion of development: Section 1985	1278 tary 11.74 39.33 Soft	1278   Cry   11.76 39.33   Cap and a completion of development   Cap and a c		100		Que	0.5	-	_	273	7.92	965	1283	DVK	751	pump on al 37	btoc
Sample 10 and Time: N/A	Sample ID and Time: N/A Total gallons removed at completion of development: Information Company (Information Company)	Sample ID and Time: NA Total gallons removed at completion of disvelopment.	Sample ID and Time: IVA Total gallons removed at completion of development.			1000	711	0	117/	20 20	-	-	-	_	_	-	Cup Montant	
Sample ID and Time: N/4	Sample ID and Time: ///A Total gallons removed at completion of dayelogment: ///Death CT	Sample ID and Time: NA Total gallons removed at completion of development: for Date CE	Sample ID and Time:  Total gallons removed at completion of development:     Property			-	Tay		111.77	21.25	-	-	_	-	-	-	Soft of	
	Arcada State: What Bushelats 600 gat 83 gal	Arcada State: Mark Bresheats  600 gat 885 gal	Arcada Statt: Mark Byshess 5		C	Sample Total ga	D and Time:		VA									
									-									
									_			_	_	_				
						- 4			_					_	_	-		

### MW-39-040 Photo Log



First discharge from waterra pump



Results during Waterra pumping at MW-39-040. From left to right, results were collected at 10:25, 10:40, 10:55, and 11:10.

# **MW-82-046**

### MW-82-046 Well Redevelopment Log ARCADIS -Project Name: FG&E Topock GW Monitoring Program Date(s) 5/4/23-5/12/13 Project # 30206892 Arcadis Oversight: That Destars ARCADIS Job Title: 51-14 geologis + (A. SMP): 29.141 Water column in well (ft), 07 Diameter of well (in.): 2 Gallons in well: 3 Rig operator: Dan Gandra Hig type: 6x3 development Baller make and size: 1.25"47' water added: NA Surge block make and size: 125'2 1' Pump make and size: 101896 mansoon Water GW | DTW | Total Depth | DH | ORP (mv) | (µ5/cm) | Turb NTU | DG (mg/L) | Notes/Gallons | GPM (R. BMP) | Temp 'C (± 1.0) (± 10.0 mV) (± 3%) (= 10.9 NTU) (± 0.3 mg/L) | Removed/Water Clarity 6783 tag DTW bloc: 29.14' TD soft btoc: 47.4 grey / unix clouds 810 bail gry/ crysbol/sol gry/ vry clady gry/ clady gry/ clady 813 bail -816 bail -818 bail gay-sm/clad, 15gd total 520 bail 825 tag Diw Hac: 26.15' TD 6toci 48.21 (hard) 845 Surge 28-33 6 42 9:10 surge 33'-38' Litoc 9:35 surge --38-43 6tor 10:00 surge 43'-48' bloc 10:25 surge 6toc: 48.00 (soft) TD DTW btoc: 29.28 1130 tag TD bloc: 48.00 (soft) gralbioun sily sel 1135 bail 0.3 201 1137 bail 1139 bail SAA 1140 bail Sug 1741 bail grey/homen situlend 1143 bail SAA gorbian silt-I sad Zing! 1144 bail

Stoc: 48.21' (hurd)

28'-33'6toc

TD

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1147

200 suge

Sample ID and Time: NA

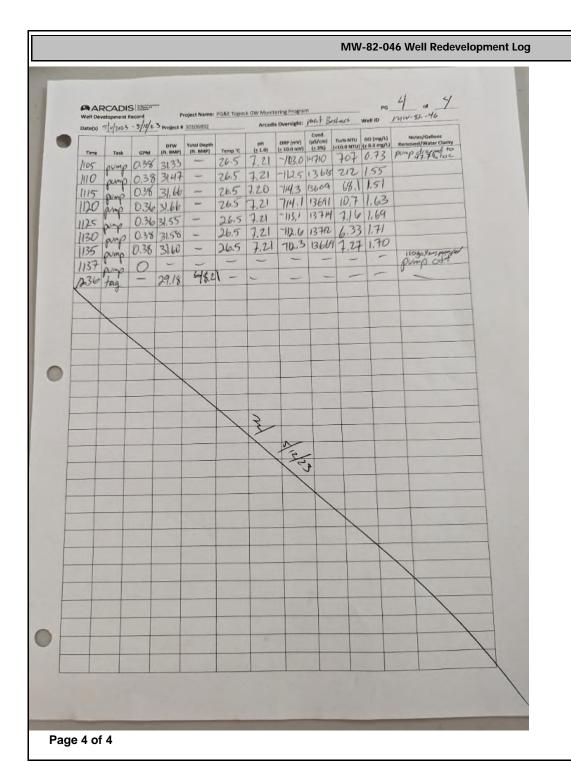
### MW-82-046 Well Redevelopment Log ARCADIS == Project Name: PG&E Topock GW Monitoring Program Arcadia Oversight: 7Mm + Beshurs Wellio WW-82-46 Date(s) 5/1/23 - 5/12/23 project # 30106892 ORP (m/s) (µ8/em) Turb RTU DO (mg/L) (± 10.0 mV) (± 8%) (<10.0 NTU) (± 0.2 mg/L) Re 1225 Suge 33-38 btoc 1250 38'-43' btoc suge 1315 43'-49' bloc 1347 tag 48.04 (5041) DIW bloc: 28.94 TD bloc. boun logare 1358 1402 bail Sac 1405 bail sacr 1407 bail 594 1408 bail brown lopeque 1409 bail 1411 bal 590 1416 bail soundapaque 295 loke 1419 bon1 48,21 (hard) 1422 tag DTW bloc: 29.23 TD Stoc! 1547 5/12/13 0843 tag 0657 bail 45.39' (soft) TD DTW bla: btoli 125 bemlapape 0.3 gul/bel 0708 bail 6th handspaire 0710 tay DTW bloc-(hard) 79.26 48.21 TD btoc: 0740 set pump 381 Hoc 0745 start pumping 0747 Stop pump Sounder trableshing 0750 Start prop 6755 drop grap 43' bloc to DTW: 3371 6755 pump 09 31.79 -1755 14509 OWF 0.73 75.48 7.26 0800 pump 0.5 32.00 7.24 -160.2 14800 OVER 0.93 26.0 31.50 723 -136.1 13875 830 25.9 1.73 080 pump 0.38 7.21 -133.9 13743 900 26.0 -1342 1358 820 0815 pump 0.3) 7.20 30,69 26.1 1.21 increase flow rate 0820 puno 0.42 31.16 26,0 7.19 -134.6 13350 504 1.07 0825 pump 0.38 31.28 734.0 1358 679 26.0 7.19 1.20 0830 pump 0.36 31.15 26.1 7.19 -311.6 13572 603

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# MW-82-046 Well Redevelopment Log

	Well	undolahu	DIS 1808		Project Name	s Р <u>ове Тор</u> и	ek GW Mont	toring Fragra	ment	Cardwell S.	PG	3 01 4
			1	DYW	Tetal Depti		ptt	ORP (mV)	Cond. (µ5/cm)	Turb NTU (<10.6 NTU)	00 (mg/L)	Notas/Gallans Removed/Water Conty
1	083	- "	MA OF	M (ft. BMP	(fr. BAIP)	26.1	7.18	(+18.8 mV) -130.9	-	659	1.15	
H	284	0	p 0.3	Contract of the Contract of th	+	26.1	7.19	-1310	-	650	1.19	
- 6	084	1000			-	26.2	7.19	1280		524	1.28	
-	0850	-	1		-	26.2	7.19	-126.4		513	1.32	
	085	5 00	-p 0.3,		-	26.3	7.19	125.5		461	18.1	
C	900	no	0.7	8 3/21	-	26.3	7.18	-1244	13566	495	1.31	
	105	-	0.4		-	26.3	7.18		41.00		1.59	
0	210			0 31.21	-	26.3	7.18	1222	_	435	1.40	
100	711	de			rate	to	pump	well	diyo	pump	pr 3 6	bec TD
-	1994	400		-	-	-	_	_ =	-	-	-	11.1
0	414	tag	Din		-48	-	_		-	-	-	well day
0	423	tag	2.5	29,76	-	-	_	_	-	=	-	gump on
	925	1 0		48.00				-	-			well dry
-	432	1	0	29.30		-			-	-		
-	THE PART	1514	10	29.26	-	_	_	-	-	-	-	puny on
	36	tru	2.5	248.00	-	-	-	-	-	-	-	well dry
	45	teg	0	79,76	-	_	-	-	-	1	-	purpon
1	47	tag	2.5	-48.00	-		-	-	-	_	-	vell dry
	22	tra	0	29.26	_	-	-	-	-	-	-	purpon
09		tig	7.5	48.0	-	-	-	-	-	-	-	well dry
100	57	teg	0	29.26	-	-	_	-	-	-		more propo 38 6 to
1010	0	lag	0.5	29.26	-	-	-	-	-	-	_	gurpon
100	5	DUMP	0.38	31:43	-	26.5	7.21	-112.9	1334	6 93.9	1.5	3
1020	2 1	DUMP	0.5	32,29	-	25.4	7.21	-117.0	1377	48.1	0 182	
102	-11	purp	0.52	32,90	-	26.3	7.21	117.0		60 59 3		7 reduce flow rate
1050		July	0.35	31.45	-	267	7.21	-115.6				
1035	- 10	Vmp	0.35	31.45	-	26.7	7.20	-1189	1369	-		
1040	, 1		0.35	31,30	-	26.7	7.20	719.1	13590		- N	
1045	-11		036	3130	-	26.7	7.20	7.20		_		1
1050	7 1						7.21		134	-		The second secon
	-++		0.35	31,30		26.7		-117.1				
055				31.35		26.7	7.21		1352		10000	
100	0	mp	0.38	31.43	-	26.8	7.21	-116.5	1379	0 12.2	- 1.5	8 Tubidity . 6.64

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Results of first round of bailing on 5/11/2023. Left bottle shows first bailer removed and right bottle shows last bailer of the round which was the 6th bail. First redevelopment day.

### MW-82-046 Photo Log



Additional photos of first round of bailing on 5/11/23. Left bottle shows first bailer removed and right bottle shows last bailer of the round which ended up being the 6th bail.



Results of second round of bailing on 5/11/2023. Left bottle shows first bailer removed and right bottle shows last bailer of the round which was the 7th bail. First redevelopment day.



Results of third round of bailing on 5/11/2023. Left bottle shows first bailer removed and right bottle shows last bailer of the round which was the 9th bail. First redevelopment day.



Results of fourth round of bailing on 5/12/21. Left bottle shows first bailer removed and right bottle shows last bailer of the round which was the 6th bail. Second redevelopment day.