Appendix G Well Development Logs

ROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW944											
PROJECT NO.: 1117678	1.00009										
STAFF:											
DATE(S): 12/4/201:	2										
1. TOTAL CASING AND SO	CREEN LENGTH (FT.)		=	15.78	WELL ID. 1"	VOL. (GAL/FT) 0.04					
2. WATER LEVEL BELOW	TOP OF CASING (FT.)		=	<u></u>	2"	0.17					
3. NUMBER OF FEET STA	NDING WATER (#1 - #2)		=		3"	0.38					
4. VOLUME OF WATER/FO	OOT OF CASING (GAL.)		=		4"	0.66					
5. VOLUME OF WATER IN	I CASING (GAL.)(#3 x #4))	=		5"	1.04					
6. VOLUME OF WATER TO	O REMOVE (GAL.)(#5 x 5	5)	=		6"	1.50					
7. VOLUME OF WATER AC	CTUALLY REMOVED (G/	AL.)	=		8"	2.60					
					V=0.0408 x (CASI	OR NG DIAMETER) ²					
		۸۵۵۱۱	MULATED V	OLUME PURGE	:D (GALLONS)						
PARAMETERS		7,000	WOLATED V	OLOWE TOROL	D (OALLONO)						
-11											
pН											
SPEC. COND. (mS/cm)											
TEMPERATURE (°C)											
TUDDIDITY (AITL)											
TURBIDITY (NTU)											
	veloped using dedicated/ 12, 1420: well dry. Adde	•	_	-		velopment.					
Water le	evel came up to grade lev	vel. 3.5 of 4 gal. w	as recovere	d after developr	ment. Turbidity = >	1,000 NTU.					

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW945											
PROJECT NO.: 1117678	1.00009										
STAFF:											
DATE(S): 12/4/2012	2										
1. TOTAL CASING AND SC	CREEN LENGTH (F	Г.)		=	17.	88		LL ID. 1"		GAL/FT) 04	
2. WATER LEVEL BELOW	TOP OF CASING (F	-T.)		=				2"	0.	17	
3. NUMBER OF FEET STA	NDING WATER (#1	- #2)		=				3"	0.	38	
4. VOLUME OF WATER/FO	OOT OF CASING (G	AL.)		=				4"	0.	66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=				5"	1.	04	
6. VOLUME OF WATER TO	REMOVE (GAL.)(#	‡5 x 5)		=				6"	1.	50	
7. VOLUME OF WATER AC	CTUALLY REMOVE	D (GAL.)		=				8"		60	
							V=0.040	08 x (CASI	OR NG DIAMI	ETER)²	
			ACC	CUMULAT	TED VOLUI	ME PURGI	ED (GALLO	ONS)		1 1	
PARAMETERS											
рН											
SPEC. COND. (mS/cm)											
TEMPERATURE (°C)											
TURBIDITY (NTU)											
OOMMENTO WALL		1/ 1/ 1/		DE () :							
	eloped using dedic 2, 1450: well dry.								/elopment	t.	
2 of 4 ga	l. was recovered af	ter develop	ment. Tu	urbidity =	>1,000 N	TU, little fi	ne sand.				

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW946											
PROJECT NO.: 1117678	1.00009										
STAFF:											
DATE(S): 11/29/20											
1. TOTAL CASING AND SC	REEN LENGTH (FT	·.)	=	15.48	WELL ID. 	VOL. (GAL/FT) 0.04					
2. WATER LEVEL BELOW	TOP OF CASING (F	T.)	=	15.02		0.17					
3. NUMBER OF FEET STA	NDING WATER (#1	- #2)	=	0.46	3"	0.38					
4. VOLUME OF WATER/FO	OOT OF CASING (G	AL.)	=	0.17	4"	0.66					
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)	=	0.08	5"	1.04					
6. VOLUME OF WATER TO	REMOVE (GAL.)(#	5 x 5)	=	0.39	6"	1.50					
7. VOLUME OF WATER AC	CTUALLY REMOVE	O (GAL.)	=		8"	2.60					
					V=0.0408 x (CAS	OR ING DIAMETER) ²					
		T T	ACCUMULAT	ED VOLUME PUR	GED (GALLONS)		T				
PARAMETERS											
рН											
SPEC. COND. (mS/cm)											
TEMPERATURE (°C)											
TURBIDITY (NTU)											
11/29/20 12/4/201	eloped using dedica 12 - water in PVC o 2, 1600: DTW = 15 gal. was recovered	cap at base of 5.03 ft. Added	screen. 4 gal. of distille	ed water to the wel	l per USACE approva	al and began develo	pment.				

PROJECT TITLE: NFSS - B	OP Field Investiga	ation			WELL	NO.: MV	/947		
PROJECT NO.: 1117678	1.00009								
STAFF:									
DATE(S): 11/29/201	12, 12/4/2012								
						WELL	ID. \	/OL. (GAL/FT)	
TOTAL CASING AND SC	CREEN LENGTH	FT.)		= _	21.50	1"		0.04	
2. WATER LEVEL BELOW	TOP OF CASING	i (FT.)		= _	21.06	2"		0.17	
3. NUMBER OF FEET STA	NDING WATER (#1 - #2)		= _	0.44	3"		0.38	
4. VOLUME OF WATER/FO	OOT OF CASING	(GAL.)		= _	0.17	4"		0.66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x #4)		= _	0.07			1.04	
6. VOLUME OF WATER TO	O REMOVE (GAL)(#5 x 5)		= _	0.37	6"		1.50	
7. VOLUME OF WATER AC	CTUALLY REMO\	/ED (GAL.)		= _		8"		2.60 OR	
								OIC	
						V=0.0408 x	(CASING	DIAMETER) ²	
			ACCU	MULATE	D VOLUME PU	RGED (GALLON	5)		
PARAMETERS									
рН									
SPEC. COND. (mS/cm)									
,									
TEMPERATURE (°C)									
TURBIDITY (NTU)									
COMMENTO: WATER TO		l: 4 1/-1:		Andria and	:4h bl-				
Water in 12/4/201 2.5 of 4 (PVC cap at bas	e of screen. ry. Added 4 ed after deve	Too little wat gal. of distille elopment.	ter to red	cover.	ock and check va		lopment.	

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW948											
PROJECT NO.: 1117678	1.00009										
STAFF:											
DATE(S): 12/4/2012	2										
_											
TOTAL CASING AND SC	CREEN LENGTH (FT.)		=	17.79	WELL ID. 1"	VOL. (GAL/FT) 0.04					
2. WATER LEVEL BELOW	TOP OF CASING (FT	.)	=		2"	0.17					
3. NUMBER OF FEET STA	NDING WATER (#1 - :	#2)	=		3"	0.38					
4. VOLUME OF WATER/FOOT OF CASING (GAL.) = 4" 0.66											
5. VOLUME OF WATER IN	CASING (GAL.)(#3 x	#4)	=		5"	1.04					
6. VOLUME OF WATER TO	REMOVE (GAL.)(#5	x5)	=		6"	1.50					
7. VOLUME OF WATER AC	CTUALLY REMOVED	(GAL.)	=		8"	2.60					
					V=0.0408 x (CAS	OR SING DIAMETER) ²					
			ACCUMULAT	ED VOLUME PURG	GED (GALLONS)						
PARAMETERS											
рН											
SPEC. COND. (mS/cm)											
TEMPERATURE (°C)											
TURBIDITY (NTU)											
,											
OOMMENTO WE'		1/1:	LIDDE :	20							
12/4/201	eloped using dedicate 2, 1255: well dry. Ac gal. was recovered a	dded 4 gal. of	distilled water	as per USACE ap		evelopment.					

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW949												
PROJECT NO.: 11176781	.00009											
STAFF:	<u></u>											
DATE(S): 11/29/201	2, 11/30/2	.012										
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	·.)		= .	36.	.50	WE	ELL ID. 1"	VOL. (0	GAL/FT) 04	
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		= .	13.	.04		2"	0.	17	
3. NUMBER OF FEET STAI	NDING W	ATER (#1 ·	- #2)		= .	23.	.46		3"	0.3	38	
4. VOLUME OF WATER/FC	OT OF C	ASING (GA	AL.)		= .	0.	17		4"	0.0	66	
5. VOLUME OF WATER IN	CASING (GAL.)(#3 >	x #4)		= .	3.9	99		5"	1.0	04	
6. VOLUME OF WATER TO) REMOVE	E (GAL.)(#	5 x 5)		= .	19.	.94		6"	1.5	50	
7. VOLUME OF WATER AC	TUALLY F	REMOVED) (GAL.)		= .	40.	.00		8"	2.0	60	
								V=0.04	08 x (CASI	OR Ng Diame	ETER)²	
				ACC	CUMULAT	ED VOLU	ME PURG	ED (GALL	ONS)			
PARAMETERS	Initial	5	10	15	20	24	25	30	34	36	37	40
рН	11.77	11.90	11.81	9.98	9.92	9.18	9.70	9.63	9.59	8.90	9.15	9.38
SPEC. COND. (mS/cm)	2.152	2.212	2.147	2.457	2.428	2.518	2.431	2.399	2.412	2.414	2.410	2.407
TEMPERATURE (°C)	8.76	8.95	9.39	10.64	10.87	10.74	10.88	11.01	10.29	9.43	9.77	10.07
TURRIDITY (NTU)	>1.000	>1.000	>1.000	>1.000	>1.000	20.0	14.0	71 7	25.0	26.2	25.2	17.6
TURBIDITY (NTU)	>1,000	>1,000	>1,000	>1,000	>1,000	30.9	14.9	71.7	35.8	26.3	25.3	17.6
		-			dedicated y after 25	-	ole HDPE	tubing.				
					y after 15	•	3 = 43.96	ft				
1												

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW950														
PROJECT NO.: 11176781	1.00009													
STAFF:														
DATE(S): 11/29/201	12, 11/30/2	012, 12/3/	2012											
1. TOTAL CASING AND SC	CREEN LE	NGTH (FT	·.)		=	23.1	18	WELL ID. 1"	VOL. (GAL 0.04	/FT)				
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	6.3	4	2"	0.17					
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	16.8	34	3"	0.38					
4. VOLUME OF WATER/FO	OOT OF C	ASING (GA	AL.)		=	0.1	7	4"	0.66					
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	2.8	6	5"	1.04					
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5) = 14.31 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 14.00 8" 2.60														
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 14.00 8" 2.60 OR														
	ACCUMULATED VOLUME PURGED (GALLONS)													
PARAMETERS	Initial													
рН	7.24	7.34	7.34	7.42										
SPEC. COND. (mS/cm)	2.600	2.556	2.458	2.705										
TEMPERATURE (°C)	12.12	11.28	10.51	13.23										
TURBIDITY (NTU)	>1,000	>1,000	>1,000	>1,000										
11/29/20 11/30/20	12 - Purg 12, 1620:	ed dry aft DTW = 6	er 5 gal. 5.59 ft. Po	osable HI urged dry rged dry a	after 4.5	gal.	urge block	and check valve.						

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW951													
PROJECT NO.: 11176781	1.00009												
STAFF:													
DATE(S): 11/30/201	12												
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	·.)		=	22	.78	WELL ID. 1"	VOL. (GAL 0.04	/FT)			
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	7.	36	2"	0.17				
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	15	.42	3"	0.38				
4. VOLUME OF WATER/FO	OOT OF C	ASING (GA	AL.)		=	0.	17	4"	0.66				
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 2.62 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5) = 13.11 6" 1.50													
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5) = 13.11 6" 1.50													
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 25.00 8" 2.60													
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 25.00 8" 2.60 OR V=0.0408 x (CASING DIAMETER) ²													
				ACC	CUMULAT	ED VOLU	ME PURGE	D (GALLONS)	1				
PARAMETERS	Initial	ACCUMULATED VOLUME PURGED (GALLONS) 1 5 10 15 20 25											
рН	6.74	7.02	6.94	6.97	6.98	7.02							
SPEC. COND. (mS/cm)	1.847	1.655	1.712	1.387	1.415	1.369							
TEMPERATURE (°C)	12.40	11.86	12.58	11.66	11.51	11.64							
TURBIDITY (NTU)	>1,000	>1,000	>1,000	92.3	72.2	24.6							
COMMENTS: Wall day		معاملات ما	رم ماماندس		d = d: = = t = =	1/4:00000	ala LIDDE 4	uhin a					
		-	-	-			ole HDPE to dity less that	uding. an 50 NTU.					

PROJECT TITLE: NFSS - B	PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW952											
PROJECT NO.: 11176781	1.00009											
STAFF:												
DATE(S): 12/3/2012	2, 12/4/201	2, 12/5/20	12									
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	·.)		=	12.35	WELL ID. 1"	VOL. (GAL/FT) 0.04				
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	4.53	2"	0.17				
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	7.82	3"	0.38				
4. VOLUME OF WATER/FO	OOT OF CA	ASING (GA	AL.)		=	0.17	4"	0.66				
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	1.33	5"	1.04				
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#	5 x 5)		=	6.65	6"	1.50				
7. VOLUME OF WATER AC	CTUALLY F	REMOVED	O (GAL.)		=	3.50	8"	2.60				
							V=0.0408 x (CAS	OR SING DIAMETER) ²				
			I	ACC	CUMULA	TED VOLUME PURG	ED (GALLONS)					
PARAMETERS	Initial	2.5	3.5									
рН	7.72	7.71	7.53	7.53								
SDEC COND (mc/am)	1 202	1 202	1 270	1 255								
SPEC. COND. (mS/cm)	1.283	1.282	1.379	1.255								
TEMPERATURE (°C)	11.07	11.09	14.01	10.74								
TURBIDITY (NTU)	>1,000	>1,000	>1,000	>1,000								
COMMENTO: MALE des	-1		-41/-1:		DDE tobi		-ll -blb					
	eiopea us 2, 1445: [-				ng with a surge bloo gal.	ck and check valve.					
	2, 1020: [2, 1035: [ifter 1 ga	I. Recharge rate ap	proximately 0.10 ft	:/45 sec.				
12/3/201	2, 1000. 1	J1 VV = 5.	07 II. I UI	ged dry.								

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW953												
PROJECT NO.: 11176781	.00009											
STAFF:												
DATE(S): 12/3/2012	2, 12/4/201	2										
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	·.)		=	12.9	98	WELL ID. 1"	VOL. (GA 0.04			
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	8.1	1	2"	0.17			
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	4.8	7	3"	0.38			
4. VOLUME OF WATER/FO	OT OF C	ASING (GA	AL.)		=	0.1	7	4"	0.66			
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 0.83 5" 1.04 6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5) = 4.14 6" 1.50												
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#	5 x 5)		=	4.1	4	6"	1.50			
7. VOLUME OF WATER AC	TUALLY I	REMOVED	(GAL.)		=	4.5	0	8"	2.60 OR			
								V=0.0408 x (CAS	_	ER)²		
					CUMULAT	TED VOLUN	/IE PURGI	ED (GALLONS)				
PARAMETERS	Initial	1.5	3	4.5								
рН	7.33	7.32	7.31	7.23								
SPEC. COND. (mS/cm)	1.560	1.555	1.404	1.391								
TEMPERATURE (°C)	11.61	11.67	12.29	13.49								
TURBIDITY (NTU)	>1,000	>1,000	>1,000	876								
COMMENTS: Well dev	eloped us	ing dedic	ated/disp	osable HD	PE tubir	I <u> </u>	urge bloc	l k and check valve.				
	2, 1445: [II.41 - £	_							
12/4/201	2, 1034: 1	יט = ۱۷۷.	97 II. Vei	y little fine	2 S.							

PROJECT TITLE: NFSS - B	PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW954											
PROJECT NO.: 11176781	1.00009										_	
STAFF:											_	
DATE(S): 12/3/2012	2, 12/4/201	2, 12/5/20	112								_	
TOTAL CASING AND SC	CREEN LE	NGTH (FT	·.)		=	13.18	WELL 1"		VOL. (GA 0.04			
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	10.55	2"		0.17	7		
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	2.63	3"		0.38	3		
4. VOLUME OF WATER/FO	OOT OF C	ASING (G	AL.)		=	0.17	4"		0.66	3		
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	0.45	5"		1.04	1		
6. VOLUME OF WATER TO	REMOVE	E (GAL.)(#	5 x 5)		=	2.24	6"		1.50)		
7. VOLUME OF WATER AC	CTUALLY I	REMOVE	O (GAL.)		=	1.75	8"		2.60)	_	
							V=0.0408	x (CASII	OR NG DIAMET	ΓER)²		
		Ī	Ī	ACC	CUMULA	TED VOLUME PUR	GED (GALLON	IS)				
PARAMETERS	Initial	1	1.5	1.75								
рН	7.43	7.37	7.54	7.52								
SPEC. COND. (mS/cm)	1.597	1.620	1.706	1.399								
TEMPERATURE (°C)	12.64	12.69	13.90	7.53								
TURBIDITY (NTU)	>1,000	>1,000	>1,000	>1,000								
COMMENTS: Wall dow	solopod us	ina dodia	otod/dion	acabla U	DDE tubi	ng with a gurae bl	and shoot	, valva				
		-		urged dry		ng with a surge bl al.	ock and check	vaive.				
				urged dry urged dry		-						
12/0/201	2, 1000.1	3111 - 12		argea ary	and o.z	o gai.						

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW955														
PROJECT NO.: 11176781	1.00009													
STAFF:														
DATE(S): 12/3/2012	2, 12/4/201	2, 12/5/20	12											
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	·.)		=	18.:	29	WELL ID. 1"	VOL. (GAL/F 0.04	T)				
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	5.7	76	2"	0.17					
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	12.	53	3"	0.38					
4. VOLUME OF WATER/FO	OOT OF CA	ASING (GA	AL.)		=	0.1	17	4"	0.66					
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	2.1	13	5"	1.04					
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5) = 10.65 6" 1.50 7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 9.00 8" 2.60														
OR														
` '														
				ACC	CUMULAT	TED VOLUI	ME PURGE	D (GALLONS)	T T					
PARAMETERS	Initial	ACCUMULATED VOLUME PURGED (GALLONS) al 4.5 7 9												
рН	7.35	7.41	7.41	7.32										
SPEC. COND. (mS/cm)	1.406	1.413	1.513	1.292										
TEMPERATURE (°C)	11.82	13.03	14.66	8.20										
TURBIDITY (NTU)	>1,000	>1,000	>1,000	238										
12/3/201 12/4/201	-	DTW = 14 DTW = 10	.53 ft. Pu .58 ft. Pu	ırged dry ırged dry	after 4.5 after 2.5	gal. 4 ft o	_	and check valve. after approximate						

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW956											
PROJECT NO.: 11176781.00009											
STAFF:											
DATE(S): 11/30/2012, 12/3/2012, 12/4/2012											
1. TOTAL CASING AND SO	REEN LE	NGTH (FT	·.)		=	22.88	3	WELL ID. 1"	VOL. (GAL/FT 0.04)	
2. WATER LEVEL BELOW	T.)		=	9.42	<u>!</u>	2"	0.17				
3. NUMBER OF FEET STA	- #2)		=	13.46	6	3" 0.38					
4. VOLUME OF WATER/FOOT OF CASING (GAL.)						0.17	<u> </u>	4"			
5. VOLUME OF WATER IN	x #4)		=	2.29	<u> </u>	5"					
6. VOLUME OF WATER TO	REMOVE	E (GAL.)(#	5 x 5)		=	11.44	4	6"			
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)						10.50	0	8"	2.60		
OR V=0.0408 x (CASING DIAMETER) ²											
	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial 4 7.5 10.5										
pH	7.65	7.25	7.31	7.74							
SPEC. COND. (mS/cm)	1.712	1.599	1.636	1.634							
TEMPERATURE (°C)	11.88	10.82	13.74	14.96							
TURBIDITY (NTU)	>1,000	>1,000	>1 000	>1,000							
TOTAL INTERPRETATION	71,000	71,000	7 1,000	71,000							
	eloped us 12 - Purg	•		osable HI	DPE tubi	ng with a su	rge block	and check valve			
12/3/201	2, 1223: I	DTW = 9.	88 ft. Pui		-	•					
12/3/12, 1520: DTW = 16.80 ft. Approximately 50% recover after 3 hours. 12/4/2012, 0900: DTW = 12.64 ft at. Purged dry after 3 gal.											
12/4/201	2, 0300. 1	J 1 V V — 12	04 It at.	i diged c	ily alter c	yaı.					

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW957										
PROJECT NO.: 11176781.00009										
STAFF:										
DATE(S): 11/30/2012, 12/3/2012, 12/4/2012										
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	·.)		=	17.98	WELL ID. _	VOL. (GAL/FT) 0.04		
2. WATER LEVEL BELOW	TOP OF C	ASING (F	T.)		=	9.89	2"	0.17		
3. NUMBER OF FEET STA	NDING W	ATER (#1	- #2)		=	8.09		0.38		
4. VOLUME OF WATER/FO	OOT OF C	ASING (G	AL.)		=	0.17	<u>4</u> "	0.66		
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	1.38	5"	1.04		
6. VOLUME OF WATER TO	REMOVE	E (GAL.)(#	5 x 5)		=	6.88	6"	1.50		
7. VOLUME OF WATER AC	CTUALLY I	REMOVE	(GAL.)		=	9.00	8"	2.60		
OR V=0.0408 x (CASING DIAMETER) ²										
	ACCUMULATED VOLUME PURGED (GALLONS)									
PARAMETERS	Initial 3 6 9									
рН	7.11	7.01	7.04	7.04						
SPEC. COND. (mS/cm)	1.992	1.947	2.235	2.335						
TEMPERATURE (°C)	9.81	9.55	13.70	14.21						
TURBIDITY (NTU)	>1,000	>1,000	>1,000	>1,000						
COMMENTO WILL					DDE (I :					
COMMENTS: Well developed using dedicated/disposable HDPE tubing with a surge block and check valve. 11/30/2012 - Purged dry after 3 gal. 12/3/2012, 1310: DTW = 9.68 ft. Purged dry after 3 gal. Recharge rate approximately 0.10 ft/70 sec. 12/4/2012, 0915: DTW = 9.48 ft. Purged dry after 3 gal.										

PROJECT NO.: 11176781.00009 STAFF: DATE(S): 11/31/2012, 12/3/2012, 12/4/2012 1. TOTAL CASING AND SCREEN LENGTH (FT.) = 13.10									
DATE(S): 11/31/2012, 12/3/2012, 12/4/2012 1. TOTAL CASING AND SCREEN LENGTH (FT.) = 13.10									
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 13.10									
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 13.10 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 12.04 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 1.06 3" 0.38									
1. TOTAL CASING AND SCREEN LENGTH (FT.) = 13.10 1" 0.04 2. WATER LEVEL BELOW TOP OF CASING (FT.) = 12.04 2" 0.17 3. NUMBER OF FEET STANDING WATER (#1 - #2) = 1.06 3" 0.38									
3. NUMBER OF FEET STANDING WATER (#1 - #2) = 1.06 3" 0.38									
4. VOLUME OF WATER/FOOT OF CASING (GAL.) = 4" 0.66									
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4) = 0.18 5" 1.04									
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5) = 6" 1.50									
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.) = 0.48 8" 2.60									
OR V=0.0408 x (CASING DIAMETER) ²									
ACCUMULATED VOLUME PURGED (GALLONS)									
PARAMETERS Initial 0.35 0.48									
pH 7.28 7.44 7.53									
SPEC. COND. (mS/cm) 0.980 1.171 1.219									
TEMPERATURE (°C) 8.63 12.92 13.90									
TURBIDITY (NTU) 96.3 65.0 72.1									
COMMENTS: Well developed using dedicated/disposable HDPE tubing with a surge block and check valve. 11/30/2012 - Purged dry after 0.25 gal. 12/3/2012, 1333: DTW = 12.38 ft. Purged dry after 0.1 gal. 12/4/2012, 0932: DTW = 12.53 ft. Purged dry after 0.13 gal.									

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW959											
PROJECT NO.: 11176781.00009											
STAFF:											
DATE(S): 11/29/2012, 11/30/2012, 12/3/2012											
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	.)		=	18.3	38	WELL ID. 1"	VOL. (GAL/ 0.04	FT)	
2. WATER LEVEL BELOW	T.)		=	8.7	0	2"	0.17				
3. NUMBER OF FEET STANDING WATER (#1 - #2)						9.6	8	3"	0.38		
4. VOLUME OF WATER/FO	OT OF C	ASING (GA	AL.)		=	0.1	7	4"	0.66		
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	1.6	5	5"	1.04		
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#	5 x 5)		=	8.2	3	6"	1.50		
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)						8.5	0	8"	2.60 OR		
V=0.0408 x (CASING DIAMETER) ²											
	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial 4 6 8.5										
рН	7.39	7.20	7.45	7.27							
SPEC. COND. (mS/cm)	1.573	1.653	1.559	1.690							
TEMPERATURE (°C)	10.91	12.16	10.48	13.44							
TURBIDITY (NTU)	>1 000	>1,000	>1 000	179							
TORDIDITT (NTO)	71,000	>1,000	>1,000	173							
COMMENTS: Well developed using dedicated/disposable HDPE tubing with a surge block and check valve. 11/29/2012 - Purged dry after 4 gal.											
	11/30/2012, 1605: DTW = 12.69 ft. Purged dry after 2 gal. 12/3/2012, 1207: DTW = 10.56 ft. Purged dry after 2.5 gal. Recharge rate approximately 0.10 ft/20 sec.										

PROJECT TITLE: NFSS - BOP Field Investigation WELL NO.: MW960											
PROJECT NO.: 11176781.00009											
STAFF:											
DATE(S): 11/29/2012, 11/30/2012, 12/3/2012											
1. TOTAL CASING AND SC	REEN LE	NGTH (FT	·.)		=	18.1	5	WELL ID. 1"	VOL. (GAL/F 0.04	Γ)	
2. WATER LEVEL BELOW	T.)		=	7.2	4	2"	0.17				
3. NUMBER OF FEET STANDING WATER (#1 - #2)						10.9	91	3"	0.38		
4. VOLUME OF WATER/FOOT OF CASING (GAL.)						0.1	7	4"	0.66		
5. VOLUME OF WATER IN	CASING (GAL.)(#3	x #4)		=	1.89	5	5"	1.04		
6. VOLUME OF WATER TO	REMOVE	(GAL.)(#	5 x 5)		=	9.2	7	6"	1.50		
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)						14.0	00	8"	2.60 OR		
V=0.0408 x (CASING DIAMETER) ²											
	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	Initial 5 9.5 14										
рН	7.01	7.20	7.16	7.07							
SPEC. COND. (mS/cm)	1.368	1.352	1.360	1.474							
TEMPERATURE (°C)	11.86	12.01	10.63	12.89							
TURBIDITY (NTU)	>1,000	>1,000	>1,000	>1,000							
COMMENTS: Well day	aloned us	ina dedic	ated/disn	osabla HI	DE tubii	ng with a si	urge block	and check valve			
COMMENTS: Well developed using dedicated/disposable HDPE tubing with a surge block and check valve. 11/29/2012 - Purged dry after 5 gal.											
11/30/2012, 1550: DTW = 9.60 ft. Purged dry after 4.5 gal. 12/3/2012, 1150: DTW = 6.71 ft. Purged dry after 4.5 gal. Recharge rate approximately 0.10 ft/12 sec.											
12/0/201	2, 1100.1	3111 - 0.	7 1 It. 1 GI	god diy d	1.0	gai. Roona	igo iato a _l	pproximatory 0.10	10 12 000.		