11-30-11 WED 25/45 SUNNY 6:00/4:30 60
PLOCHER - 1 SUPERVISION
DHM - 1 - AIR LINES
ANDERSON - PLANT - 4 PULLING WIRE
WELLS - 2 FABRICATE FRAMES FOR MCB
GOODMAN - COMPLETE AIR RELIEF, SAND B.F. #13 & PLACE 3" ON PAD
CAHOY (3) - COMPLETE WELL PLAT #14, UNLOAD INNER CASINGS FOR NEXT 6 WELLS, ORGANIZE LAYDOWN SITE
RV TO CHATHAM (TALKED TO T BURKE @ NEW CITY)

12-1-11 THURS 31/48 6:00/4:30 45
PLOCHER (3) CLEANUP, HAUL & SPREAD ROCK ON LOT.
ANDERSON (4) EFFLUENT LAGOON P.S.
ANDERSON WELLS (2) - FAB FRAMES FOR TUSS
DHM - AIR LINES
CAHOY: GROUT WELLS - CORY CALLED PLATFORM WON'T FIT

12-2-11 FRI 32/50 6:00/4:30 45
DHM - 1 AIR LINES
CAHOY - WENT HOME IN A.M.
RV GOT FEURING TO REMOVE HEADER & FASTEN GRATING
(2) ANDERSON & RV SET PLC FROM PLANT

12-5-11 MON 6:00/4:30 33-41 45
(2) PLOCHER - CLEAN & SEAL FLOORS, ROCK LOT
(1) DHM - MISC CONTROLS, CONNEX WELL #13
(4) ANDERSON - PLANT - PULL WIRE
(2) WELLS - #13 GEAR, GND FIELD #10
(3) GOODMAN - VAULTS ON #10, SAND BF, STONE ON W 1/2 #10
(2) CAHOY - DRILLED P.M. - SET UP #9

12-6-11 TUES 6:00/4:30 28/35 LITES NOW 45
(3) PLOCHER - CLEAN & SEAL FLOORS, ROCK
DHM - MISC CONTROLS, CONNEX WELL #14
(4) ANDERSON - PULL WIRE, WORK W AAC
(2) ANDERSON - GEAR #13,
GOODMAN - VAULTS ON #14, SITE PAD #10
CAHOY - PUMPS & PITLESS #9 (PIX)
GRATING #9
(2) AAC - WORK IN PLC-1

12-7-11 WED 6:00/4:30 28/45 MOSTLY CLEAR 45
PLOCHER - CLEAN & SEAL FLOOR & JOINTS.
(1) DHM - MISC PIPING
(4) ANDERSON - PLANT - MISC.
(2) ANDERSON WELLS GND FIELD #14 & #9, GEAR ON #13
GOODMAN - VAULTS ON #9
CAHOY - LADDER ON #13, #10 PUMP
RV TO GREEN & BROADFORD & IMCO (G&B MENDENHALL BASEMENT SURVEY REVIEW)
RECEIVED 4 WELL PANELS

12-8-11 Thurs 6:00/4:30 26/38 45

(3) Plocher: Clean Floors & Joints - Grade
Rock: Install Laterals From Soakaway
(2) AT&T & Install Tel Line
(1) DHM: Brine Piping
Anderson -
Goodman - (3) Site Pads #9 & #14
Cahoy - Complete #9 pump install
install grate & Hatch do.

12-9-11 Fri 6:00/4:30 60

(1) DHM - Brine Piping
(2) Anderson - Well #13
Goodman - Clear Debris From #1,
Rock Base #11 & #1 (extend)
Jerry Kuhn From IEPA & Accmp. Toured
plant & Well Field (2:30/3:30)

12-12-11 Mon 6:00/4:30 45

(1) DHM - Brine
(4) Plocher - Clean Floors, Lagoon
Roadways
(4) Anderson - Tank Floats
(2) Anderson - Well #13
(3) Cahoy Late - Set up For Well #4
Goodman - Finish Rock approaches
Trench Drainage @ RR ROW.

				Act
Well #2 BM	GE	534.20		534.72
	FS	5.49		Corrected
	HI	539.69		
Pole Xsfer	MK	4.15	= 539.69	
Down 1.69		1.69		
MK Pole		2.46	= 538.00	
Set #2	FS	4.80		
	HI	539.00		
	BS.	4.82		
Midnfield	G.E	534.18		
	FS.	4.84		
	HI	539.02		Corrected
B.S. Well #1		5.27		534.27
	G.E	533.75		
Pole Xsfer		4.75	= 539.02	
Down		1.02		
MK Pole		3.73	= 538.0	
Chk w orig #1				
Shot Pole		4.63	= 538.90	
New HI		538.90		
Old #1		4.70		
		534.20		
Tie in back To BM		Pole #1	538.00	
		FS	2.69	
	Top	HI	540.69	
535.86	Culvert		5.35	
(see Next Page)	Error .5		535.34	

WELL #3 XFER

WELL #3	534.80	
FS	4.93	
HI	539.73	
POLE XSFER	3.57	= 539.73
DOWN	1.73	
	1.84	= 538.00

ERROR IS IN XSFER FROM BM 535.86 TO WELL #2.

CORRECTION: FROM PAGE 131

ON TIE IN ACTUAL HI IS 541.21

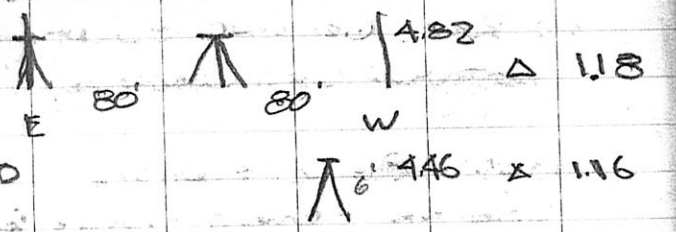
THIS WILL RAISE WELL #2 BY .52 AND RAISE BOTH POLE BMS ON #1 & #2 LIKEWISE

INSTRUMENT CHECK 12-9-11 CST BERGER

ACCIMATE TEMP

3.64 E 80' 80' W 4.82 Δ 1.18

3.30 6' 4.46 Δ 1.16



ADJUSTED TILL E READ 3.28 Δ 1.18
1.18
6

WELL #4	535.24	
FS	4.69	
HI.	539.93	
XSFER TO POLE		
DOWN	1.93	= 538.00

WELL #11	534.45	
FS	4.70	
HI	539.15	
XSFER POLE	4.43	= 539.15
DOWN	1.15	
	3.28	= 538.00

12-13-11 TUES 6:00/4:30 32-38 45

(4) ROCKLEY - LAGOON ROADWAYS, HAUL IN ROCK, GRADING @ SEPTIC AREA.
ANDERSON - GEN CLEANUP, TANK FLOATS
DHM - BRINE PIPING
GOODMAN - GRADE LEACH & RR ROW
CAHOY - TEMP WELL #4 FAILED - DRILL #11, SET SCREEN & CASING
(STAYED UNTIL 2:30 A.M)

Rainy (.75")

134

12-14-11 Wed 6:00/4:30 40-53 45

(3) Procher - Clean Floors, Grade lot

(4) Anderson

(2) Anderson - Well #13 almost complete

DHM - Pneumatic conduits

(8) Cahoy / Reynolds - Grout Well #11, Drill & set screen & casing #1 (52')

Goodman - O

Wind 53-43

12-15-11 Thurs 6:00/4:30 45

(3) Procher - Clean & Seal Floors, Grade some Rock - Start Pump in Det Tank

Anderson - Gen Grounding, Heat Trace, Tank Levels

(2) Anderson - Trim out Well #13, Chatham Heated Xs Former,

Cahoy: Grout Well #1, drill case & scrn

~~DHM~~ Well #2 Surged & Airlift #4

DHM - Pneumatic conduits, Test Ports.

12-16-11 Fri 6:00/4:30 30

DHM - Pneumatics - Pump to Det Tank.

Anderson (2) - Complete Well #13, set PLC on #9 (R.V.)

(4) Cahoy: Grout Well #2, started Dev Flap #1 (49' Deep to Grd)

Muddy

135

12-17-11 Sat 7:00/11:00 30

Cahoy - Pump Test #1 started 10:30

Talked to Cory several times during step test - All Good

375 GPM 9.5' static

23.3' at Pumping

Note Step Test: 2 min interv / 10 min

5 min " / 20

10 min " / 30

30 min " / Hour

Every Hour After

12-18-11 Sun 8:00/10:00 30

Moved BK cases in & set up

(2) Cahoy - Moved supply wells from #4 to #3 & #5, Determin that #4 isn't practical

Rain

12-19-11 Mon 6:00/5:30 45

Procher: Start Lagoon Infl

Pumps - Factory OK (ABS)

TVSS OK. (see Email)

DHM - Pneumatics

Anderson: #9

Cahoy / Reynolds - Ladder #9

Drill & set screen #3

Start Up #13 with AAC & TVSS

2:40 - 300 GPM till 4:40

(37,500 G) - Took BACT Samp @ Pit

12-20-11 Tues 6:00/4:30 RAIN 35/45 60
SSWG MTNG
ROCHER; CLEAN & SEAL FLOORS
ANDERSON;
DHM
CAHOY: DRIVE & SET SCREEN #5,
12-21-11 Wed 6:00/4:30 38-45 45
ROCHER - CLEAN & SEAL FLOORS
ANDERSON (4)
ANDERSON (2) WELL #9
DHM - WATER LINES (W-1)
RV & TIM TOOK SAMPLES @ WELL & HYDRANT #2
CAHOY - WENT HOME
12-22-11 THURS 6:00/4:30 38-48 45
ROCHER - CLEAN & SEAL FLOORS, VALVES
DHM - W-1 LINES TO CLEAN ROOMS
(2) ANDERSON - PULL WIRE, CLEAN UP &
HAUL EXCESS MATERIALS
CAHOY - O
RV. SET QUICK CONNECT WELL #13,
STARTED WELL #13 & TOOK SAMPLES
H2O #2 & WELL
12-23-11 FRI 6:00/2:00 N.L. 33/43 30
ANDERSON (2) WELL #9
RV. QUIC CONNECT #9, OFFICE WORK
BACT OK TO H2O #3 per TIM

12-26-11 MON 10:00/4:30 32/45 30
ANDERSON - 2 WELL #9 PIPING
R.V. QUICK CONNECTS ON #10 & #14
12-27-11 TUES 6:00/4:30 45
RON TODAY - PUSH WATER FROM H2O
#3 TO RONT

20" TO LEACH CORNER	1823'
ANGLE ROCK	110'
RON ROAD SECT	524'
TO RONT	783'
TO PI EAST	220'
TO PI SOUTH	160'
TO PI EAST	415'
TO PI SOUTH	150'
TO AERATOR RISER	33'
RISERS ELEVATED & DOWN	40'
CROSS	13'
DET TANK & UP	27'
.81 MILE	4298'

CROSS SECT AREA 20" = 2.16 SF
= 9301 CF
(LRG CROSS = 650 GPM = 2½ MIN) x 7.5 = 69,760 G / 250 GPM = 4 HR 40 MIN - 2.5
CYL REQ @ 1.83 G/SF/C @ 1% = 3.95 4 HR 37.5 MIN
4800/100 = 43 x 3.95 = 169.85 / 12.5 = 13.6 G
/ 15 = 11.33
DISCONTINUE TODAYS RUN - IN ORDER TO GET SAMPLE, NEED POSITIVE PRESSURE ON TAP

DISCUSSED W/ TIM WE WILL CUT IN A CORP STOP W/ SADDLE ON RW RISER BEFORE VALVES, DELAY UNTIL POSS THURSDAY

(2) PROCHER - CLEAN & SEAL FLOORS
N.E. CORNER
DHM - O -
ANDERSON - PULL WIRE, FIRE ALARM
(2) AND WELL #9

12-28-11 WED. 6:00/4:30 30/38 60
JUNE MTNG @ G&B W TERRY
PROCHER CLEAN & SEAL FLOORS
(2) ANDERSON PULL WIRE
DHM O
(2) ANDERSON WELL #9 & #13
CAHAY - O -
R.V. PUT 4 KWIK CONNECTS IN VALVE VAULTS (2 LEFT)

12-29-11 THURS 6:00/4:30 37/52 45
(2) PROCHER CLEAN & SEAL FLOORS
(2) ANDERSON, PULL WIRE, FIRE ALARM
(2) ANDERSON, ANTENNA #13, TVSS #9 (R.V. WITH LUNA)
QUENTIN W C.G & R.V. SUCKED DOWN HYD #3 FROM WELL 13 VV & ADDED 12 GAL CHL, AT 9:45 STARTED PUSHING WATER TO PLANT. STARTED COMING OUT DET TANK HATCH @ 2:20 - SHUT DOWN, ORDERED TOP SADDLE FROM IMCO

20"

START WELL #13 @ 9:45 45 HZ (75%)
PUMP RATE TO START 273 GPM
11:15 PUMP RATE 235 GPM
11:30 227 GPM
RAMPED UP VFD @ 12:10 TO 50.9 HZ (85%) INCREASED TO 277 GPM
1:30 269 GPM. DET TANK OUTFLOW @ 2:20

12-30-11 FRI 45/-
(1) PROCHER SEAL FLOORS

12-30-11 FRI 6:00 4:30 33/43 RAIN 60
(1) PROCHER CLEAN & SEAL FLOORS
DEL, SHANE, & MEREDITH VISITED 1:30
AL MENDENHALL do
R.V. TO 3900, GET PUMP TO IMCO & TO CHATHAM & BACK.

12-31-11 SAT 8:00/11:00 30
R.V. INSTALL LAST 2 KWIK CONNECTS IN VAULTS, UNLOAD TOOLS @ PLANT

12-12 MON 7:00/3:00 NLI 25/32 WINDY 30
ANDERSON (4) FIRE ALARM
ANDERSON (2) WELL #9
R.V. PAPERWORK

1-3-12 Tues 5:00/4:30 14/33 30

Plocher (3) Exc Ohd Dr Pad & H.C. Pkng Pad, Grade Form & Blanket. Exc & Install Valve & 20'6" pipe @ Tee To Water Sales Exc Around RW Risers For Heat Trace.

DHM-1 - Install Valve & pipe - Misc W-1 Piping

Anderson (4) - Fire Door & Misc

Anderson (2) - Well #10 Conduit.

CG Tim & Quentin Saddle Tap on RW - Wrong Tool Do Tomorrow

[redacted] Showed @ 3:45 Unloaded Trucks

R.V. pumped Down Det Tank & Swept Muddy Water

1-4-12 Wed 6:00/4:30 33/45 45

Plocher (3) Clean Floors, Grade Black Dirt & Lagoon Roads, Pwr Wash Det Tank Floor.

DHM - W1 Lines in 100

Anderson - 0 at Plant (2) prefab for Well #10

[redacted]: Set Well 10 Pump, Fasten Deck, Hatch & Ladder

CG (3) Tap RW Riser - RV Flush & Took Sample, Notify PM of Debris in Pits

R.V. - Chlor MFI & Det Tank To .42'
Goodman - Flush Hyd #2 [illegible]

PPH charged This dist main with Potable Water ran To 60# & Then To 120#. Test Held. Air Release Worked & Closed properly - Opened Cord Stops & Got Water. (AAC in PM 1 Guy)

1-5-12 Thurs 6:00/5:30 33/45 45

Plocher (3) Clean Floors, Grade black dirt

DHM (1) W1 Lines

Anderson (2) Reset Level Trans

[redacted] (2) Well #10

Peoria Metro: Grind Card Bd off of Sumps in Det & Clearwell

AAC - Worked on Lagoon Panels & PLC-1

[redacted] - Complete Well #14 inc setting Pump.

CG - Turn Valves Around in 6 Vaults not installed

1-6-12 Fri 6:00/5:00 35/59 45

Plocher - Grade Dirt & Compact Rock. Clean Floors, Layout Fence

Chatham Elec Locate UG For Fence

DHM - W1 Piping

ANDERSON (2) PLC CAB'S RESET
LEVEL INDICATORS
[redacted] (2) WELL #10 CONDUIT
RV SET PLC CABINET
AAC - LAGOON PANEL, TEMP DET
TANK LEVEL CONTROL
RV - PUMP & MONITOR DET TANK
FILL TO ± 7.5'

1-7-12 SAT 38/45 6:00/2:30 45

[redacted] PUMP TEST #11 & SET
UP #5 FOR FRACING

START @ 9:00 A.M. STATIC LEVEL 9.7'

TIME	PUMP LVL	DRAWDOWN	SPEC CAP
9:02	27.4	17.7	21.19
9:04	24.9	15.2	24.67
9:06	24.7	15.0	25.0
9:15	24.82	15.1	24.8
9:30	24.88	15.2	24.7
10:00	25.02	15.32	24.45
11:00	25.1	15.4	24.35
2:00	25.2	15.5	24.19
3:00	25.2	15.5	24.19

RECOVER TO 9.95 - 8 MIN
PH-6.0 HARDNESS 427.5 MG/L

RV - TAKE PRESSURE OFF R.W & INS
12 GAL OF NAOCL IN FLUSH HYD 3
DRAWBACK & OPEN VALVES - PUSH
WATER FOR 4 HOURS TO RECH 2
UPPER R.W. SYST. FILL DET TANK TO 12' ±
LAYOUT NEW WELL #4
FLUSH L.S. #3 10 MIN - CLEAR.

1-8-12 SUN 25/45 7:00/3:30 45

[redacted] (2) - PUMP TEST #5, AIRLIFT #3
RV, PAPERWORK, LAID OUT WELL #4A
260' WEST OF PREVIOUS POS, SUPPLY WELL
ALSO - CHECK TANK LEVEL
[redacted] #5

SUN 11:00 STATIC LVL 9.65'

TIME	PUMP LVL	DRAWDN	SPEC CAPACITY
11:00	37.5	27.85	13.46
11:10	37.0	27.35	13.71
11:20	36.75	27.30	13.74
11:30	36.95	27.30	13.74
12:00	36.95	27.30	13.74
1:00	38.95	29.30	12.80
2:00	39.10	29.45	12.73
3:00	39.10	29.45	12.73
4:00	39.10	29.45	12.73
5:00	39.10	29.45	12.73

TRACE SAND

RECOVER TO 9.9' @ 5:08 PH 6.5 HARD 376.2 MG/L

1-9-12 MON 6:00/4:30 22/53 45

TANK LVL (DET TANK) IS 11.5' (ACTUAL)
(4) PLOCHER: HAUL SPOILS TO CLAY PILE
& WELL FIELD, CLEAN FLOORS, ADJ. DOORS
DHM (2) LAGOON OUTFALL PUMPS/PIPE
ANDERSON (2) HEAT TRACE R.W.
[redacted] (2) WELL #10
START L.S. PUMPS INC ALIGN - PURGE DIRTY MFT
ALIGN H.S. PUMPS

DONE H.C. FRACING & WEST STOOP

COLLINS & HERMAN (4) DRILL POSTS

[redacted] PUMP TEST #3

11:00 STATIC LVL 9.55

TIME	PMP LVL	D.D.	SPEC CAP
11:02	375	37.5	27.95	13.42
11:06	285	36.8	27.25	10.46
11:10	285	36.9	27.35	10.42
11:30	252	33.6	24.05	10.48
12:00	252	33.36	23.81	10.58
2:00		32.84	23.29	10.89
5:00	252	32.68	23.15	10.89

RECOVER TO 9.8 IN 8 MIN
PH-6 444.6 MG/L HARD

1-10-12 TUES 6:00/4:30 22/62 45

ROCHER (3) - DOORS, CAULK WALK JOINTS,
LS PUMPS PUMP DET WATER THRO FILTER INTO CLEAR WL.
PURGE S.E. & W1 LINE THRO FACE PIPING (ISO)
(2) DHM LAGOON OUTLET
ANDERSON (2) SMART BOBS, PICKET LITE
[redacted] (2) WELL #10
COLLINS-HERM (4) DRILL & SET POSTS
[redacted] TEST PUMP #2

375 GPM 11:00 STATIC 8.8

TIME	PUMP L.	DRAWN	SPEC CAP	SAND
11:02	35.5	26.7	14.04	
11:06	37.4	28.6	13.11	
11:15	37.54	28.74	13.05	
11:30	37.58	28.78	13.03	TRACE
1:00	37.62	28.82	13.01	TRACE
4:00	37.69	28.89	12.98	"
5:00	"	"	"	"

1-11-12 WED 6:00/4:30 32/45 45

ROCHER (4) - CLEAN UP OUTSIDE, PUMP MUDDY WATER FROM CLEARWELL, FLUSH SOFTENERS FROM TOP TO DRAIN OUTLET USING L.S. PUMPS & DETENTION WATER, BLOCKING FOR ANTENNAS, CAULKING, MAILBOX
ANDERSON (2), HEAT TRACE, INSTALL ANTENNAS
[redacted] WELL #14
DHM - LAGOON OUTLET PUMPS, TIGHTEN FLANGES.
AAC (3) PLC 1 - LAGOON PUMPS & MISC.
(5) COLLINS & HERMAN - COMPLETE POSTS
[redacted] WENT HOME
REYNOLDS - DRILL SUPPLY WELL #4

Herb Butler Here

SNOWING / DLI 22 ARO

1-12-12 THURS 6:00/4:30 23/17 45

ROCHER (2) CLEAN CLEARWELL, PUMP TO LAG SUMP - FLUSH & DRAIN 4 SOFTENERS
DHM: MISC CHEM PIPING
ANDERSON (2) PLC 1 TERMINATIONS
[redacted] SET PLC CAB #14
AAC (3) MISC PLC WIRING, RADIO COM WITH #13, SUPERVISORY SET UP.
[redacted] - COMPLETE SUPPLY WELL #4A. R.V. HAS SAMPLES.
TIM, DAMIAN, & R.V DISCUSS FLUSHING PROCEDURES.
AMCO - DRILL POST HOLES - 4 WELL SITES

1-13-12 Fri 6:00/4:30 = 17/19 30

(1) Procher, Flush Ion Tank #, Add Water To Clr Well

(1) DHM - Ion Flushing, Clean Up

AMCO - Set & Pour Fence Posts.

AAC - Complete Programming Det Tank & Lagoon Influent, [redacted] com w/ [redacted] & Program Remote [redacted]

Reynolds picked up samples To send To Johnson Screens. Email From [redacted] Well #4A should be OK

1-14-12 Sat 3 Hrs 60

To Plant 8:00 Start ~~LS Pump~~ Well

242 GPM #13 Ran ~~[illegible]~~ 4.6' to 8.7' 9:00 to 1:15±.

Det Tank

Ran L.S. #1 8.7 to 6.7 900 GPM into Clr Wl. (1' added to Clr Wl.)

1-15-12 Sun 4 Hrs 60

To Plant 8:30 meas Granular & Add To Det Tank @ 8:45/9:45 10.5# per Tank Flush Procedure. Left Well Running To Mix - Shut Down @ 7.8' & Wait 30 min - Start Well #13 @ 10:40 @ 7.4' = 222 min To 11'-0" 3 Hrs 42 min = 2:22. Note - Well did not shut down @ 11'0 Manual Shut down 11.1'

1-16-12 Mon 6:00/4:30 40°/60 30

Procher (2) Gen Cleanup, Flushing, H.S. Pump Start, Drain Clr Well, by Gravity Start; 1:00

DHM (2) - Chem Feed Piping, W1 Leaks

Tim: Sample RW & MF1 @ Pump.

Collins - Herman (5) Hardware Attach cut off Posts

Anderson (2) Misc Wiring

[redacted] Well #14

Chatham Hook up 3 Wells

Pumped Thru Allens Hyd & SE Hyd

1-17-12 Tues 4:00/4:30 48/31 75

Gravity Drain from Clearwell 1:00 Did not stop until 5:05 AM.

R.V. Early do watersched & start up sched.

R.V. To G&B for SSWC mtng, To Chatham, back To Plant.

Procher: (2) Drain down & start cleaning Clr Well, Drain down Det Tank, Insulate 20 & 24 standpipes

DHM (2) Chem Feed Lines

And (2) Aerator

[redacted] Well #14

[redacted] Excavate #1 RV Shoot

Take Test @ LS Pump #1

Grades @ 7:30

Collins (A)

BM 538
FS .50
HI 538.50
Well Cap 2.61
Elev. 535.89

1-18-12 WED 6:00/4:30 12/25 45

ROCH (3) GRADE BLACKDIRT & ROCK
CLEAN CLEARWELL, WRAP TANKS
DHM - CHEM FEED LINES
ANDERSON: AERATOR CONTROLS
[redacted] WELL #14
COLLINS & HERMAN (5) FENCE FABRIC
& DETAIL
(4) [redacted] WELL #1 PITLESS, EXC WELL
#2

DRAIN D.T. TANK NOTICE IRON ON
BOT, START AERATOR & PUT 1.5'
NEW WATER IN TANK
CENT CONCRETE - LAYOUT SEPTIC
TO CHL WATER MAIN AT WELLS
9, 10, & 14
MAIN FROM #14

FROM AWWA FOR 1% SOLUTION	1124'-6"	11.25 x .36	4.05
	910'-8"	9.1 x .65	5.92
	976'-10"	9.76 x 1.02	9.96
			19.93

SAY 20 GAL / 15% SOLUTION
= 1.33 GAL
FOR GRAN @ 100% CHL = 1.66#
INCREASE FOR 65% = 2.25#
Add HANDFILL @

1-19-12 THURS 6:00/4:30 30/25 45

R.V. & DAMIEN DETERMINE THAT 4' OF
WATER REQD FOR TONKA BY:
9863 GAL FILL
4750 GAL B.W (475 GPM @ 10 MIN)
14,613

RUN THROUGH DIRECTOR

RUN TO RUN UP TO 6' IN TANK (±50%)
START @ 1.8' NEED 4.2' = 210 MIN
= 3 HRS 30 MIN. START 7:10 AM.
CHLORINATE TO .5 MGL FROM PHASE
III PROCEDURE 1.23# FOR FULL TANK
REDUCE X 50% = .62# ADDED TO
TANK @ 7:10
REACHED 6' @ 11:02 NOTE: INCREASED HEAD
OF 21' HAD LITTLE EFFECT ON PUMP
PERFORMANCE (230 GPM)
ROCHER (3) CLEAN CLEARWELL WITH
PRESS. CLNR. GRADE MISC
ANDERSON: 1 - MISC WIRING
[redacted] (2) COMPLETE WELL #14
DHM - CHEM FEED LINES
([redacted] #11, BACKFILL #11
(FREEZE PROTECT) & #2, MOVE EQUIP
TO #11 & BEGIN EXCAVATION.
[redacted] 9, 10, & 14 BUMP #14
CENT CONCRETE - EXC & SET 1,000 GAL
TANK.
(2) COLLINS & HERM - COMPLETE FENCE

1-20-12 Fri 6:00/6:00 13/22 45

Rocher (1) > Flush & Disinfect Tonka (2)
DHM (1)
Central Conc (2) Set Pump & Elect Box
AAC (2) Programming (Wells)
RW Fill E-W 10" & 8" Main with High Chl Water
(4) Cahoy Pitless on #11, Excavate #3
Damien, Kerry & I attempted to Disinfect Softeners 1 & 2. Followed Tonka procedures but could not get sample to read past 8.8.
Backflushed together @ 900 GPM for 25 min for complete flush.

1-21-12 Sat 8:00/3:00 60

Started Well #13 @ 8:36 @ 3.4' D.T.
Added 2# Chl to Tank @ 10:15
Opened Flush Hyd #2, Added 3# Granular to Well 14 & ran 20 min @ 277 GPM. Note 2# Gran should raise Chl level to 1 mgl but need 11' water. Water will use good portion of this.
Today shut down @ 1:45 SB 8' level
(4) Cahoy Pitless on #3 Exc #5

Sun 1-22-12 10:00/2:00 32/40 60

Start Well #13 @ 10:15 @ 8.2'
Shut off @ 1:30 @ 11'-0" No Luck on Pump Test #4
Cahoy - Set Pitless Unit & backfill #5

Mon 1-23-12 6:00/6:30 40/34 45

Rocher (2): Cleanup, charge syst for W-1 pressure > 5' water in brine
(2) DHM: Domestic water, Chem Feed
(2) Anderson: Misc Wiring, Sesmic Restraint on lights
Cahoy: Grout #11, 3, & 5 Add 20" Casing & Platform to #1
Brenntag here for chemicals
Oraerea Salt.
Don Held started today —
Took Bacts @ 9, 10, & 14 & 10"
RW Main (Hyd #2). J-R interview & WICS Live Feed
Westech came @ ±2:30 - Tonka Tomorrow

Tues 1-24-12 6:00/4:30 30/38 45

Rocher (1) Work with Tonka & Westech
DHM (3) Chem Feed Piping
Anderson (2) Work with Tonka & Westech & AAC (1)
(3) Cahoy Platform #1 & Grout

WESTECH (3) SYSTEM
TONKA (1) SYSTEM
BAC TD ALL WELLS & 10" MAIN
LEAK @ WELL #9 DUE TO SHORT
P.E. D.I. PIPE. TIM CALLED IMCO
RV & DAN & TIM WORKED ON

1-25-12 WED 5:30/4:30 29/ RAIN 45
SALT DELIVERY 6:00 A.M. 25 TON N
SILO TIM DAN RV REPAIR LEAK WELL #9
(1) PROCHER WORK WITH TONKA & WESTECH
(3) DHM CHEM FEEDS
[redacted]
(1) AAC WORK WITH CONTROLS
BAC T 9, 10, & HYDRANT & TONKA 3 & 4
AMCO WELL # 8 (NN) (3)

1-26-12 THURS 6:00/5:30 RAIN 60
RV > PLANT & TO IMCO & BACK WITH
NEW CORP STOP. FOR STAND PIPE
RV & DAN FLUSH FOR 1 HR - CHL STILL
IN 10" LINE BAC T 8 & 10 & HYD #2
(1) PROCHER WORK WITH TONKA & WEST
(3) DHM CHEM FEED LINES
(2) ANDERSON - WORK WITH CONTROL
PEOPLE
AAC WORK W/ CONTROLS
[redacted] #9 IS APPROVED TO GO ONLINE
3:30 RE-CHLOR 10" & RUN WELL 8 2 MIN

ADDED 3# GRAN @ WELL #14 (OD)

01-27-12 FRI 6:00/5:00 25/35 30
PROCHER (1) - WESTECH & TONKA
DHM (1) - CHEM FEED
ANDERSON - MISC WIRING
AAC - CONTROL WORK
TONKA - RUN REGEN CYCLE & RINSE #4
WESTECH - VARIOUS START UP DUTIES
M&O INSULATION (2) - INSULATE R.W
& STANDPIPE.
[redacted] NOTED THAT BYPASS LINE NEEDS
TO BE REWORKED & LOOP INSTALLED TO
PREVENT DRAINING OF WESTECH
WESTECH NEEDS MINIMUM OF 2
2" AIR RELEASE VALVES INSTALLED
WITH SURGE RESEVOIR.
NOTED TO TIM THAT IEPA NEEDS
TO BE HERE WED OR THURS AM FOR
INTEGRITY TESTING.
TIM & DAN FLUSHED 10" LINE &
BAC TD 8 & HYD #2.
CHEMICALS DELIVERED - NO WAY
TO UNLOAD FLOURIDE - ORDERED
FK LIFT FROM SUNBELT.

29/38

1-28-12 SAT. 8:00/4:00 30

DEWATERED VALVE ON #9, Added 3# GRANULAR, OPENED HYD. RAN WELL FOR 10 MIN @307 GPM = 3070 GAL. CHL SB 180' WEST OF INTERSECTION. 800' TO HYD OR 3,300 GAL. (13 MIN @ 250 GPM). DET TANK WAS @ 7.8' EARLY, STARTED #13 (WELL 7) @ APPROX 8:45 AM.

AT 10:30, Added ½ # GRANULAR TO TANK. Add .5# TO #8 AFTER DEWATER SAMPLE RAN THRO

WESTECH (2) WORKED ON CIP SKID, LOCATED 10" VALVE @ LATERAL. WORKED WITH WESTECH ON WATER SUPPLY ISSUES - VERIFY CLEARWELL WATER ELEVATION.

5.46 DROP TAPE TO WATER

15.92 TO FLOOR. 3848 SF

10.46 WATER LEVEL @ 28,783 G/LF

= 301,000 GAL

IF B.W. TO 0 THERE WILL BE 10,000 GAL LEFT IN FLOOR SLOPE.

33/38

1-29-12 SUN 7:30/10:30 30

9'-0" IN D.T. TANK - Added .25# TO COMP FOR LOSS & FILL 7'-0 TO 11'-0. 10'-7½ MEAS

CLR WELL = 15.92 / 10.62 = 5.3' = 152,550 GAL.

WESTECH (2) - UNPACK & MOUNT MODULES

DRAIN CLEARWELL

1-30-12 MON 5:00/4:30 N.L. 30

MEASURED CLR WELL - DROP TAPE IS 14.77 - 15.92 = 1.15 = 33,100 GAL TO HIGH SPOT. B.W. PUMPS WERE PULLING AIR SO OPENED HATCH & PUT 2 SUBMERS IN.

BRENNTAG DELIVERED HYDROFLOURO & BLEACH ABOUT 9:00

DISCUSSED W/TIM POTENTIAL MOTH BALLING OF MODULES. RETREIVED MOST PLUGS CAPS & JUMPERS FROM DUMPSTER.

ROCHER (1) - PULSAFEEDER START UP. PROBLEM WITH ELECTRICAL & PLUMBING CONNEX. C.O. PENDING FOR EXTRAS.

DHM (1) CHEM FEED PIPING

ANDERSON (2) HEAT TRACE BRINE 2

(3) M&O: RW LAGGING/INSULATION

TIM & DAN TOOK BAC TS ON #8 #10, HYD & #4.

BROOKS & ASSOC (2) WORK ON PULSA FEEDERS

35/45

1-31-12 TUES 6:00/5:00 40

ROCHER (2) CLEANED, DRAINED & PRESS WASH CLR WELL

ANDERSON - BRINE TANK'S HEAT TRACE

AAC (1) - CONTROLS

START UP LAGOON EFFLUENT PUMPS

29/35

2-6-12 MON 6:00/4'30 4 1/5

ROCHER: 1 - CLEAN UP

DHM: 1 - NEW AIR RELIEF CUT IN (LEAKER REPAIR) VALVE VAULT 0 # 5

ANDERSON: 2 CLEAN UP

ANDERSON: 0

CANOY - 0 (LATE PM ARRIVE)

GOODMAN (3) - VALVE VAULTS 0 # 5

ADJUST GRADES OTHER

DON & RV START HS PUMPS 3 & 4 RAN UP TO 59 HZ MAKING 115 PSI FLUSHED TO F.H.@ TRAILER (PPH) PPH OPENED ANOTHER VALVE PRES REDUCED TO 50 PSI. CLEWELL FROM 12.6 TO 6' IN 35 MIN +/-

BACTI NUMBER # 10 & > LAB

25/38

2-7-12 TUES 6:00/4:30 40

ROCHER: 2 CLEAN UP.

ANDERSON: 0

ROCHER PM - HONG TROLLEY BEAM HSP

DHM - CHEM FEED

(2) GOODMAN: COUPLER VAULTS 0 # 11, & # 05

CANO: (3) CUT CASINGS & SET UP FOR TOMMORROW DRILLING -

TAKE NEW BACTI ON N # 10

MICKEY BERNARD HERE FOR WESTECH FEEDERS

WESTECH - 2

Central - Septic Syst.
M&O - (3) R.W. Insulation
Goodman Move In
[redacted] (3) Equipt Problems - Set Grating
Well #1
Westech: Make Water To Curwell
R.V. Drank it Start Well #9

2-1-12 Wed 7:00/5:00 36/54 45
Procher (3) Backfill R.W. standpipes
Clean up.
(2) Anderson: High Cul Pump Sta
[redacted] Ground in Well #1
DHM - Air Release C.O.
[redacted] Well #2 Casing
Goodman - Valve Vaults Well #1
AAC (Paul) Gen Controls
Central (3) Septic Syst.
Start Well #8 @ 1:00±
3 Wells Pumped 335,580 Today
Tim & Don added .25# Cul @ 7:30
@ 7.0 (
Tim & Westech Plan: Thurs PM Disinfect
Cur Well @ Low Level, bake all night
& Raise To overflow Friday
Test Mon, Tues.

2-2-12 Thur 6:00/4:30 36/55 45
Procher (3) Spread Rock, Clean up,
compact B.F. @ R.W./Aerator
DHM: (1) Misc Piping
Anderson (2) - Clean up punch items
AAC - 1 (late)
M&O - Complete RW Insulation
[redacted] Old #2, move equipt
to Laydown
Westech - (3) Left Clearwell Full
Goodman - Complete Vault Well #1, install
vaults old #2
Central: Complete Septic install

2-3-12 Fri 6:00/4:30 36/57 45
Procher: Clean up, Exc Septic
Eject Feed.
Anderson (2) Cell Phone Antenna,
Septic Hook up
[redacted] (2) - Ground Fied Well #1
[redacted] - 0 -
DHM 1 - Valve Vaults, Chem Feed
Goodman (3) Valve Vaults, 2, 3, & 11 (old)
.7 Rain last nite

2-4-12 Sat 7:30/11:30 30
Check plant / paperwork, / Add 1# Cal Slurry To N#10 After draining vault To
Well. Opened out valve & pushed mix
To Well.

2-8-12 WED. 6:00/4:30 28/33 45

PROCHER(1) CO-ORD

DHM: CHEM FEED

ANDERSON: 2 - CELL PHONE AUP & MISC

WESTECH: 2 - MISC INC RC INSPECT.

CAHOY (3) - PREP FOR NEW #5

REYNOLDS: DRILL #5: HAD TO STOP

DUE TO CAVING #10 BACT

CITRIC DELIVERED GOOD

GOODMAN -0-

2-9-12 THURS 6:00/4:30 25/40 45

PROCHER(1) CO-ORD

DHM(1) CHEM FEED, PLANT WATER.

ANDERSON(2) SEPTIC TANK,

WESTECH: 2 SCADA & CHEM FEED

CAHOY(3) PLATFORM 0#11

GOODMAN(3) - TEMP ROADS 0#3 & 0#11, ROCK

PAD 0#5

START UP PULSAFEEDERS

PUMP FROM #10 BEELMAN ± 4 LOADS 3"

2-10-12 FRI 6:00/5:30 45

PROCHER(1) 2 HOURS

SET UP 2 FLUSHING HYD & PUMP CLR

WELL DOWN FROM 11.82 TO 5'

(196,300 GAL.) ADDED 11.5# GRAN

TO CHL 18.225 G TO 50 MG/L

2-10 (CON'D)

CAHOY(3) FINISH PLATFORM & GROUT

0#11 - MOVE TO 0#3

GOODMAN (3) MOVE SPOIL TO #3#11

FILL LOCATIONS. LEVEL & BUILD PAD

NEW #6.

BEELMAN DELIVERED 16 LOADS 3"

TRUCK #1155 HIT POWER LINES ±10:30

NOTIFIED TERM MGR & CHATHAM

(SHANE) FOR REPAIR. SHUT DOWN

WELLS 10, 9, 8 UNTIL REPAIR COMPL.

(± 1:15) & RE-STARTED. TERM MGR

MICK BUTLER INSPECTED SITE &

CONFIRMED ACCIDENT.

DAN & R.V. STARTED V.F. @ 1:20

CALLED WESTECH WITH CONCERN OF

AUTO B.W. WITH HI CHL WATER.

DAN EXTENDED CYC TO 90 MIN

& SHUT DOWN @ 80 MIN TO CONFER.

PERRY/CODY: CAN BW WITH

HI CHL WATER (NOT ADVISABLE). AFT

BW BESURE TO RUN FILTERS ±

10 MIN TO COMPLETELY RINSE

HIGH CHL FROM MODULE.

17/22 4

2-11-12 SAT 9:00/2:00 (NL) 30

CAHOY (3) CASING & PLATFORM 0

#4

R.V. CMOILS, TIME & EXPENSES, PUNCH OFFICES & CHEM ROOMS & MASONRY IN OPERATIONS. MAKE UP 2 EXPERIMENT HAND HOLDS FOR WELLS. DRAFT CLEARWELL DRAIN & FILL REVAMP

2-12-12 SUN 9:00/11:00 30

CAHOY (3) N WELL #6 WELD CASING & SET PLATFORM.

22/32

2-13-12 MON 6:00/4:30 (LITE SNOW) 45

PLOCHER > MASONRY & PREPAINT PUNCH L.

PLOCHER (2) CO-ORD. CUTOUT & PATCH BED JOINTS, CLEAN CHEM ROOMS

DHM (1) BLEND LINE CHEM CHK VALVES

ANDERSON (1) FENCE GROUND

AETNA (1) PAINT TROLLEY BEAMS

CAHOY (3) GROUT N#4 (2), CASING & PLATFORM N#6 NOTE O#4 discuss

GOODMAN -O-

MET W G. KUNTZMAN & P HEISENGER & SURVEY CREW PRELIM ROAD LOCATIONS & TREE ID

ISSUED SKETCH TO ALL CONCERNING CLR WELL FILL & DRAIN CHANGE

30/40 5

2-14-12 TUES 6:00/4:30 30

PLOCHER (2) CO-ORD & CLEANUP.

HEADLAND 1 - SPINKLE MAIN

DHM (1) REPLUMB BLEND LINE, DRILL S.E. FOR CLAVALL, TAP MFI IN PIT.

ANDERSON (1/2) - FENCE GROUNDING

DESIGN TANKS (1) BRINE START UP

AETNA (1) CUT IN WALLS TO FLOOR, MISC TOUCH UP.

M&O INSULATE DUCT WORK

CAHOY: SET PUMP N#6, GROUT CASING. - CREWS LEFT MID MORNING

GREEN & BRADFORD (3) SURVEY ROADS

36/42

2-15-12 WED 6:00/4:30 30

PLOCHER (1) - CLEAN UP, CO-ORD

AAC - (2) IN P.M. HIGH SERV PUMPS PLC SCREENS

DHM (1) EARLY DRILL S.E. FOR CLA-VAL

ANDERSON -O- → HOOK INTO SPINKLE MAIN

STARTED U.F @ 8:14. DAN OPERATED MANUALLY RUN BANK 1 & 2 & BACKFLUSHED. DISC BANK 3 HAD ALARM TO do WITH VFD. AT 10:15 CORY TOLD DAN HOW TO RE-SET ALARMS & GET SYST TO RUN

7'± WATER IN HIGH CHL. VANDERWATER START UP HIGH CHL PUMPS

PUMP LAGOONS DOWN ±9" - PUMP #1 NOT RUNNING PROP

IEPA

37/43 6

2-16-12 THUR 6:00/4:30 30

PLOCHER: H.C. SIGN, pump down LAGOONS, CLEAN UP

DHM(1) - NEW CURWELL FILL, FIN FIRE MAN

ANDERSON(1) COMPLETE GROUNDING

A.A.C. (2) RADIO CONNEX W/CHATHAM

GOODMAN (3) COMPLETE PADS. W/CA-6,

HEARTLAND (1). TEST SPRINKLER F.A. SUYSTEM 200# PRESSURE: ROCHESTER DEP CHIEF.

35/45

2-17-12 FRI 6:00/4:30 40

PLOCHER (2) LOAD OUT, CLEAN UP, CALK JOINTS

ANDERSON (1) FIRE ALARM

ANDERSON (2) WELL PLATFORMS

DHM: (1) POTABLE, FLUSH HYDRANT & VALV, PLANT WATER LINE, WATER TO HEAD, SINK IN BRK

GOODMAN: POTABLE HYDRANT, CA-6 BASE OVER 3" @ WELL SITES

2-18-12 SAT 8:00/10:00 30

WELL PLANNING (#4A)

28/40 7

2-20-12 MON 6:00/4:30 40

PLOCHER (2) CLEAN & PRESS WASH FLOORS

1 DHM: SINK & FAUCETS IN LAB

2 ANDERSON: CLEAN UP

M&O INSULATE ABOVE CHEM ROOMS

GOODMAN - GRADE AROUND PADS, TURN @ 9

[redacted] - BRACKETS & GROUNDING

[redacted]

FILL CURWELL W/CHATHAM WATER & ADDED 1½# GRANULAR

34/40/42

2-21-12 TUES 6:00/4:30 65

SSWC MTNG @ PLANT

PLOCHER - CO-ORD

DHM - FAB PIPE STAND

ANDERSON - PREP FOR GEN START

RUN HSP # 5 for 2 HRS ± EARLY & MID

C1 DM - TAKE BACT TO LAB 12:00 NOTE CURWELL IS OVERFLOW - HIGH CHL

ANDY W/TONKA: START UF SYST LATE P.M. RUN CURWELL FROM 6.8 TO 9.5. DET TANK down TO 6.6. NOTE WELLS did NOT START. ~~WED~~ AUTO [redacted] WELLS N 10 & 9

2-22-12 WED 40/55 6:00/6:00 N.L. 8 60

WELLS did NOT RESTART ON AUTO. ACKNOWLEDGED ALARM & START WELL PROCESS TO START. ALL 4 PUMPING AVE 244 GPM. STARTED AT 6:17 AM. PROCHER: LAG 2 & 2 LAG 1 dropped OFF AT 7:45 - LEAD dropped OFF @ 12.2' START HSP 5 @ 9:45 CLR WELL 10.7'. RAN MOST OF DAY.

START UP GEN/XSFR SWITCH SYSTEM. ISSUE WITH EXERCISING XSFER RFI. TO COME. NOTE AC WILL NOT RESTART W/O. MANUAL RESET.

PROCHER: 1/2 CO-CRD

DHM: 1 WORK W/ WESTECH & TONKA

(2) ANDERSON: WORK W/ CUMMINS / S&C

CHOTHAM: 4 WORK W/ CUMMINS / S&C.

PROBLEM WITH WESTECH PROVIDING PRESS TO TONKA. DISCOVERED INCOMPLETE B.W. CYCLES DUE TO LACK OF AIR. CORY/FRANK/ANDY WORKED WITH UNTIL 7:30 P.M. TONKA GOT RE-GEN OF S#4. TOOK BACT TO P.A. FOR C-2 (CLR WELL) @ 12:00±. NOTE GOOD RESULTS FOR C-1

AAC-(2) WORK WITH TONKA & WESTECH

CAHOY: 2 - DETAIL WELL # N8

WESTECH-1

TONKA-1

2-23-12 THUR. 40/57 6:00/4:30 45 9

START DET TANK @ 12.0 CLR WELL @ 8.3. ANDY NOTED CLAVAL WILL HAVE TO BE MOUNTED HORIZ. ALSO NOTE THAT ANDY INDICATED SI LINE WILL ALWAYS DRAIN TO CLR WELL SINCE S.E. LINE IS AT SAME ELEVATION.

FLUSHED SUMPS OUT OF DET TANK LOTS OF MUD/IRON

BEELMAN: 14 LOADS CA-6, 2 LOADS 3" - 15'-3" BRACE TO FLOOR 12'-6" BRACE TO WATER = 2'-9" WATER IN HIGH CHL

REGEN RAN LATE 2400 GAL PER TANK TO HIGH CHL !!

PROCHER -0-

DHM-0

CAHOY-0

ANDERSON -1 AS BUILTS

ANDERSON -2 WELL N#1

GOODMAN-1 GRADE ROADWAYS INC LEACH + PUSH UP ROCK

WESTECH - 1 CHEMFEEDS

TONKA - 1: REGEN

?