Mt. With Joe Alonso Quaker Oats 1:30 PM

On city H2O stopped well use - water had bad taste had test run on it - showed negative -

US EPA RECORDS CENTER REGION 5
531221

I. P. C.

Overtoir

Elevation of river?

depth of river?

amount of people on municipal H_2O?

" " " " "100's" private wells?

what side of road on magnolia are the water lines and services?

Where can we get H_2O for drilling?

aquifer?

Well logs? How many aquifers?

confining layer?

40 wells for city

are main on west side of street.

15' 18' off property line two mains on Magnolia - east one under curb or fire lane.

wells in radius 4, 18, 15, 11,

water interconnected for whole city

water pressure boundary on ~~west~~ east side of ~~bound~~ radius.

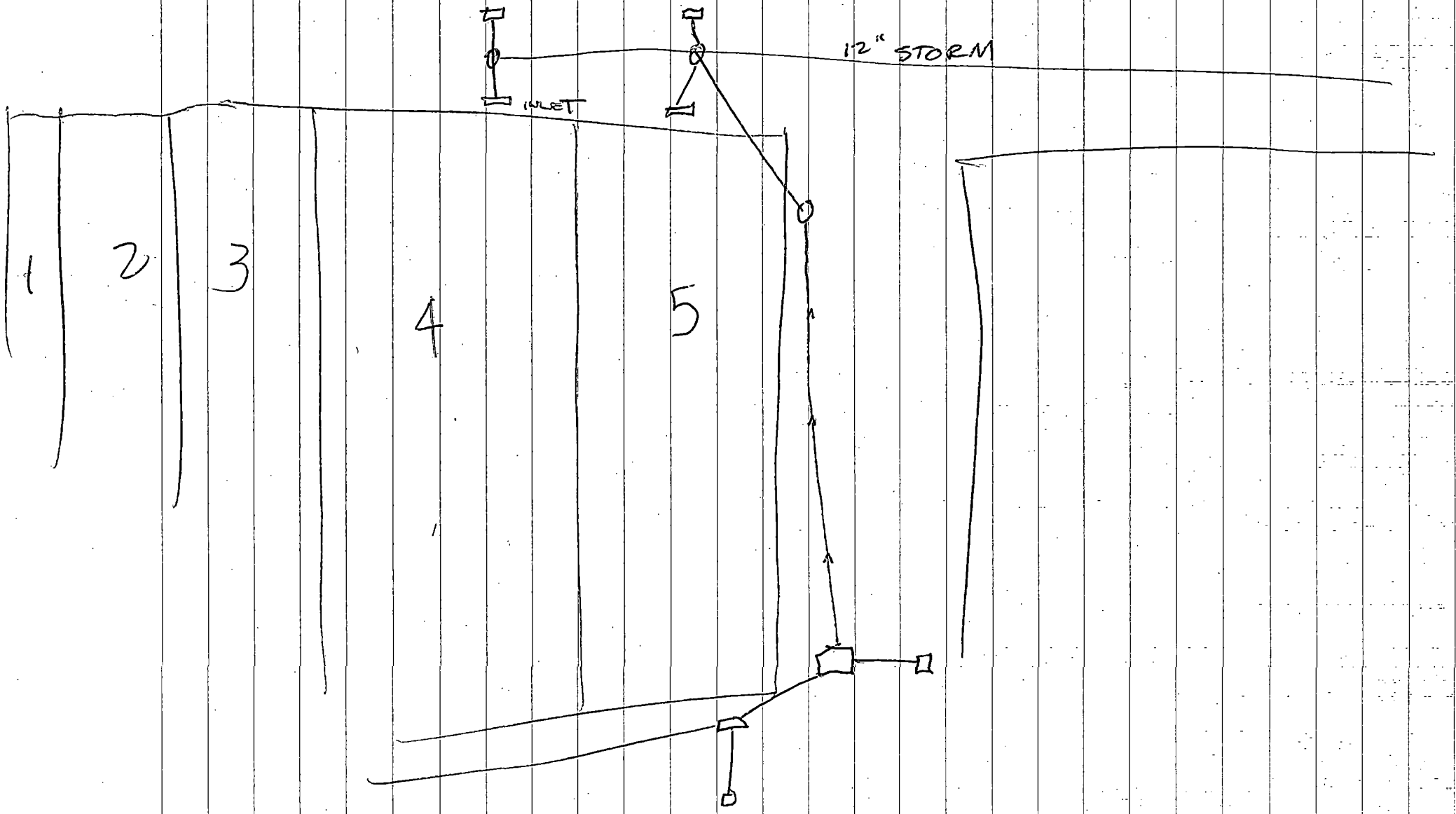
~~most~~ factory are ~~on~~ private wells. for industry and drinking

continuous clay layer under land fill

drift overlying Saint Peter Sandstone.

State - ~~US~~ GS Tan book.

12" SAN
IPC
265'
10" SAN
144
10" SAN


12" STORM
INLET
1
2
3
4
5

IL-OIII-19 ①

TUES.

K. PHILLIPS 1-22-85 [illegible]

J. KODITIEK PEOPLES AVE

R. RAU CANONIE CONSTRUCTION CO.

RIG - MOBILE B-61

MW-1B DEEP QUAKER OATS PROPERTY

DRILLED TO 41½' 1-21-85

TUES 1-22-85 DRAGER - NO COLOR

7:00 CAN. ARRIVES. FIX PISTONS ON PUMP.

7:30 E&G " GET READY FOR ROTARY

40' OF AUGER IN GROUND SAMPLING @ 5' INT.

8:30 BEGIN DRILLING USING REVERT (AMER. COLLOID - VARIFLO)

DRILL TO 71½' @ 12:00

BELL TEL. SHOWED @ 10:30
ADD 5' AUGER. TOT = 45'

12:00-12:30 LUNCH

12:30-1:00 GET H_2O FROM Q.O.

1:00 RESUME. MIX REVERT, REPAIR WIRELINE HOOK

2:00-4:30 DRILL & SAMPLE TO 110½'

4:30-5:30 DRAIN HOSE, SECURE HOLE

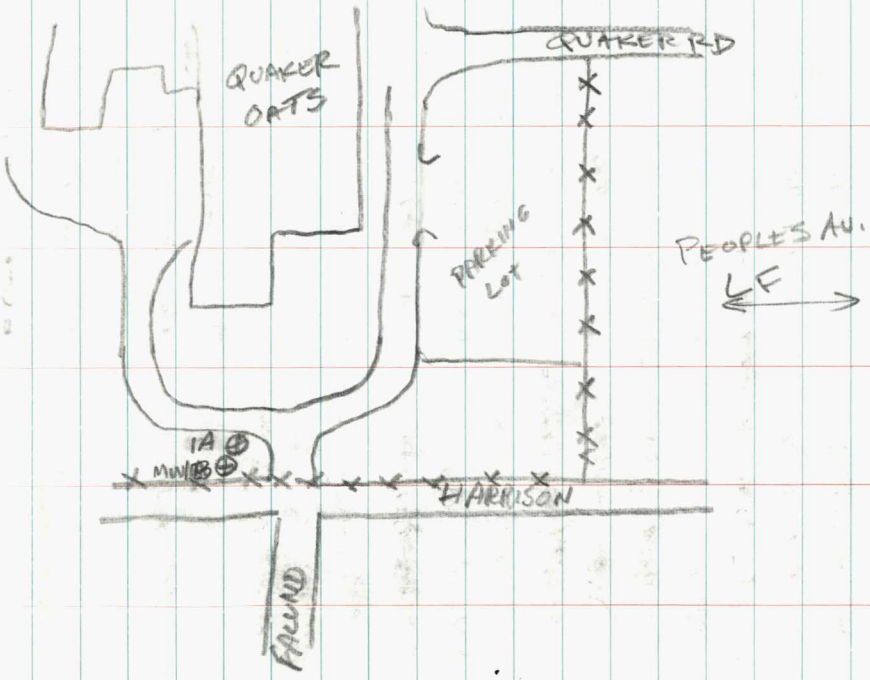
5:30 LEAVE SITE

USED 7/60 GAL. TUBS/REVERT

NO LEACHATE OBSERVED.

HNu 0.4 ppm BACKROUND. NOTHING ABOVE WHILE DRILLING

DIETZGEN NO. 386-3


QUAKER ARTS
QUAKER RD
PARKING LOT
PEOPLES AV.
1A
MW1B
HARRISON
FALLAND

K. PHILLIPS
E&E

WED.
1-23-85

(2)

7:00 CAN. ARRIVES 7:20 E&E ARRIVE

GET WATER, SET UP

7:45 BEGIN DRILLING W. 100' SAMPLE

HNU 0.4 ppm BACKGROUND

DRAGER HCN – NO COLOR CHANGE

NOTHING ABOVE FROM HOLE

9:30 TOOK 115-116½' SAMPLE. PULLED

RODS & PUT BIT ON. WENT DOWN W.

BIT, HOLE HAD CAVED TO ~100' & LOST

MUD, PUMPED ½ TUB MUD IN HOLE W.

NO RETURN. POSSIBLE SOLUTION CAVITY

BEDROCK? ~115'

PENETRATED BY SPOON, SUCKED DOWN

MUD & MATERIAL FROM WALL.

SPOON SHOWED FRAGS. OF V. WEATHERED

V. FRAC. DOLOMITE. RODS PLUGGED

10:00 MIX ANOTHER TUB. GO BACK DOWN.

HOLE CAVED TO 55'. RODS PLUGGED.

12:00 - 1:00 LUNCH

1:00 - 3:00 TRIED TO GET HOLE DOWN.

RODS KEEP PLUGGING, HOLE KEEPS

CAVING TO ~60' NO MUD RETURN

AFTER 3 - 60 GAL TUBS SINCE 10:00

DIETZGEN NO. 386-3

10' SECTION PVC = 10.05'

12 SECTIONS = 120.6'

PVC SCREEN = 5.3'

MW-1B

4 @ 10.05 = 40.20

1 @ 5.05

1 @ 5.30

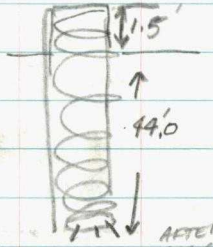
TOT PVC 50.55

S.U. − 5.50

TIP @ ~~45.05~~' FROM SURFACE 44.05' AFTER WELL CAME UP

S.U. = ~~2.5~~' AFTER CUTTING 2.3

TOT PVC MW-1B = ~~47.55~~' 46.35



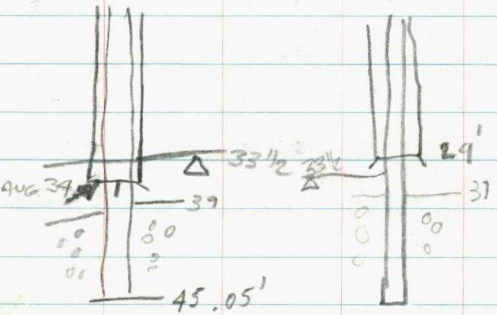


FIG 1 FIG 2

3:00 CAN'T GET HOLE DOWN WITHOUT ANY RETURN. HOLE @ 55'. V. DIFFICULT DRILLING SITUATION - LOSING MUD AND S&G BLOWING UP INTO RODS. JERRY THINKS THIS IS A LOST CAUSE AND SUGGESTS WE MAKE THIS THE SHALLOW WELL. I AGREE. WE ALREADY HAVE 45' AUGER IN SO WE CAN PUT WELL IN THERE (DTW ~36') FLUSH HOLE BELOW AUGER W. 200 GALS. CLEAN WATER TO INSURE CAVE IN AND A SOLID BASE FOR WELL. AFTER FLUSHING HOLE OPEN TO 63' (19' BELOW AUGER). HOOK UP AUGER & REAM - HOPEING SAND WILL FALL & FILL 19' VOID. THIS WORKS! BOTTOM OF AUGER @ 44' SAND CAVES TO 44' ALSO. LEAVE HOLE UNTILL TOMORROW. DRILLERS DON'T HAVE CEMENT FOR GROUTING

4:00 HOLE IS SECURED. LEAVE SITE

TOTAL DRILLED TODAY = 6½'

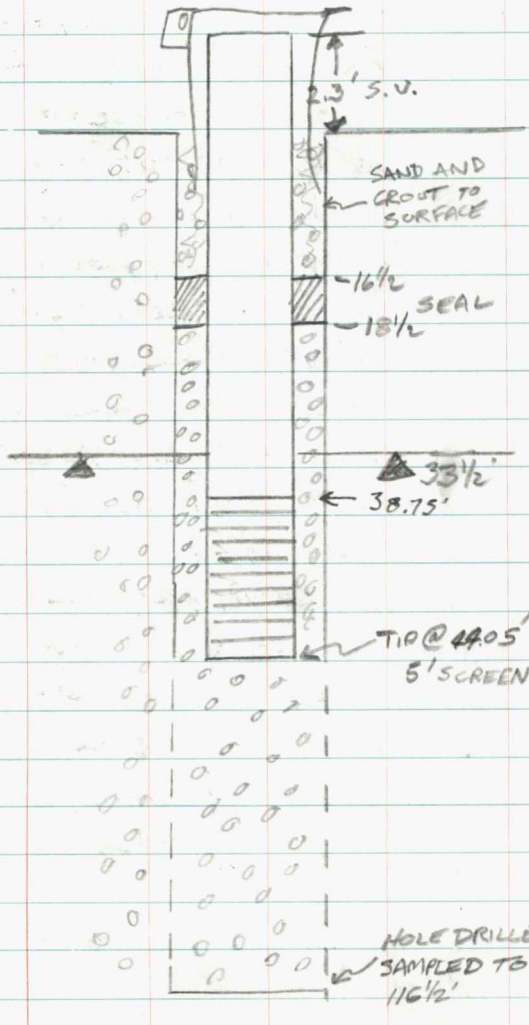
THIS WILL BE MW-1B - SHALLOW WELL. BLIND DRILL TO ~100' FOR MW-1A - DEEP.

HOW WILL PAYMENT FOR XTRA FOOT BE WORKED OUT?

DIETZGEN NO. 386-3

MW-1B
FINAL

LOCK # 2429



K. PHILLIPS
E&E

THURS.
1-24-85

KODITEK
RAU
CANONIE

(4)

PEOPLES AVE (QUAKER OATS)

7:00 CANONIE ARRIVES 7:15 E&E ARRIVES

GET WATER, SET-UP

9:00 HOLE CAVED TO 39½' (5 FT. IN AUGERS) WASH OUT SAND TO 45'. SET WELL TIP @ 45.05'. PULL 10' AUGER (LEAVING 35½' IN HOLE). FLUSH WELL W. CLEAN ~100 GAL H_2O TO REMOVE ANY REVERT & FORM NATURAL GRAVEL PACK. DTW = 33½'. SEE FIGS. PAGE 2. AFTER TRYING TO SND PACK FROM 37' TO 33' SND BRIDGES IN AUGER AT 20'. PULL ALL 30' AUGER HOLE CAVED @ 18½'. WELL CAME UP 1' WHEN AUGERS WERE PULLED DUE TO BRIDGED SAND. TIP NOW @ 44.05'. CUT ~1' OFF THE TOP LEAVING 2.3' STICK UP. PUT IN 2' PELLETS 18½'-16½'. GROUT — GOING INTO S&G. PUMPED DOWN 2 TUB V. THICK GROUT (~120 GALS. 4 BAGS CEMENT / 1½ BAG BENTONITE), WILL NOT COME TO SURFACE. HAVE TO BACKFILL W. CLEAN SAND & CONCRETE PLUG AT SURFACE. PROTECTIVE CASING

LEAVE 2.3' STICK UP

DIETZGEN NO. 386-3

MW-1A

BEFORE CUTTING

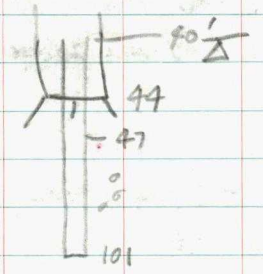
105.8 PVC TOT.

- 4.3 SU

* 101.5' BELOW SURFACE *

+ 2.5' S.U. AFTER CUTTING

104.0' TOT PVC



FRI 1-25-85 RON ST. JOHN SAYS BENTONITE PELLET SEALS AND GROUTING ARE NOT NEEDED DUE TO SAND & GRAV. MATERIAL FROM SURFACE AT FUTURE BORINGS. LET HOLE CAVE, INSTALL GROUT-CEMENT PLUG AT SURFACE.

K. PHILLIPS / PEOPLES AVE 1-24-85 (5)

SET ON WELL, LOCKED

12:00 - 1:00 LUNCH

1:00 PULL TRUCK 10' NE & BEGIN MW-1A

AUGER DOWN TO 44' W. PLUG

3 5/8" ? ROLLER BIT

DTW = 38.75' FROM SURFACE

ROTARY DRILL W. REVERT 44' - 102'

NO PROBLEMS. COBBLES 90' - 95'

PULL RODS OUT. CAP ~~THE HOLE~~

DRAIN HOSES.

5:30 LEAVE SITE

FRI. 1-25-85

7:00 CANONIE ARRIVE 7:30 ~~GAE~~

DTW MW-1B = 40.3'. SET UP. GET H_2O

MIX MUD. FLUSH HOLE TO MAKE SURE

ITS OPEN.

9:00 INSTALL 2" PVC WELL. TIP @ 101.5'. 5'

PVC SCREEN. FLUSH WELL WITH ~300

GALS. CLEAN WATER - FORCE OUT REVERT

AND COLLAPSE HOLE AROUND SCREEN.

HOLE CAVES TO 47' (3' BELOW AUGERS).

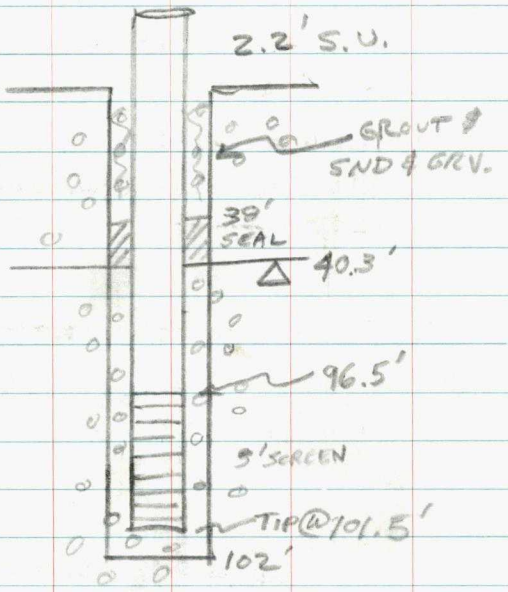
PULL 1 AUGER. MEASURE AGAIN. AUG. AT 39'

SAND AT 39'. HOLE CAVING AS AUGERS ARE REMOVED TAKE OFF 1 MORE AUG.

(LEANING 34'). HOLE OPEN TO 40'

DIETZGEN NO. 386-3

MW-1A LOCK # 2429
FINAL
DTW: 40.3'



NOTE: PUT LOCK # 3833 ON SAHLSTROM GATE TO ACCESS MW-4A/B. GAVE 1 KEY TO HIM, I KEPT THE OTHER

INSTALL BENT. PELLET SEAL 40'-38'.
FILL AUGERS W. GROUT (2 BAGS CEMENT, 1 BAG BENT). PULL ALL AUGERS. BACKFILL W. SND & GRAV.
INSTALL PROTECTIVE CASING.
LOCK #2429
3:00 LEAVE SITE

START MW-2A MON.
1-28-85

8:00 I HAD TO GO TO OFFICE TO GET BLOOD TEST, PICK UP LOCKS ETC.
9:00-10:00 WENT TO WAREHOUSE TO GET LEVEL, TRIPOD, ROD, TAPE
10:00-11:30 TVL
11:30 ARRIVE AT PEOPLES AVE. BIEZE & GIFFORD AT SITE SINCE 8:00 W. DRILLERS. BALLARD ELEC.
12-1:00 LUNCH
1:00-3:00 GOT BENCH MARK FROM ROCKFORD DPW. WENT TO RUBIN STEEL FOR PERMISSION TO DRILL (CALL BACK TUES.). WENT TO MURPHY FREIGHT → DAVE CUNNINGHAM ON

DIETZGEN NO. 386-3

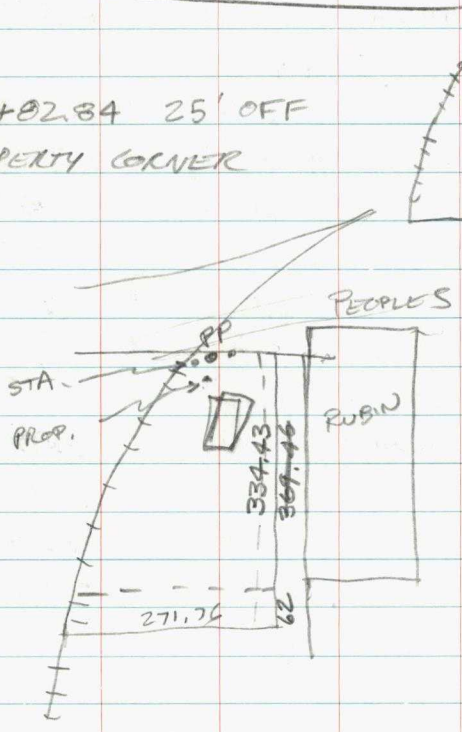
BENCH MARK — SNOW BURIED

FROM JERALD CRADY / ENGINEER, ROCKFORD DPW, TEMP. BM TIED IN TO USGS = 132.61'

+ 603.38'

735.99' "X" CUT ON TOP OF INLET SLAB NW COR. HARRISON AND MAGNOLIA

30+82.84 25' OFF PROPERTY CORNER



VACATION. WILL GIVE HIM INDEMNITY AGREEMENT NEXT MON.

3:00 - 5:00 BACK AT SITE. DRILLERS DRILLED 0' - 111½' TODAY SAMPLED @ 5' FROM 0 - 20', 10' FROM 20' - 100', 5' FROM 100' - 110'. DTW = 47'. ALL S&G SO FAR - NO LEACHATE OBSERVED. USED AUGERS TO 50'. ROTARY W. REVERT BELOW 50'

5:00 LEAVE SITE

K. PHILLIPS
M. GIFFORD

TUES.
1-29-85

PEOPLES AVE
BALLARD ELEC

7:00 CANONIE ARRIVES. GET H_2O, THAW EQUIP, MIX MUD.

7:30 E&E ARRIVE

8:15 BEGIN DRILLING FROM 111½'

4:15 DRILLED TO 161½' ALL S&G SAMPLED EVERY 5'. LOOKING FOR TILL LAYER - SHOULD HAVE BEEN @ 120'

4:45 LEAVE SITE

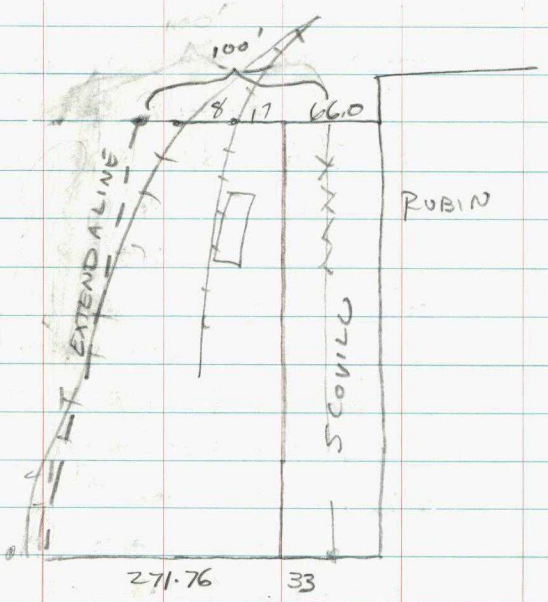
DIETZGEN NO. 386-3

TEMP. BENCH MARK U.S.G.S. TIED

@ MAGNOLIA & QUAKER

POWER POLE SWX R.R. SPIKE

736.84



NORTH LINE

MEASURE 95'-100' @ 1° FROM FENCE

SOUTH LINE

271.76' + 33' @ 9° FROM FENCE

396.00' SOUTH ALONG FENCE

K. PHILLIPS WED. PEOPLES AVE (B)

MW-2A 1-30-85 (BALLARD ELEC.)

7:00 CANONIE ARRIVE. MIX MUD, THAW OUT ETC

7:15 E&E ARRIVE

8:30 READY TO DRILL. WAITING FOR PACHOWITZ TO GET HERE TO SAMPLE & REVERT. HE SAID HE'D BE HERE AT 8:00. MEANWHILE HELPER GOES TO WELDER TO FIX SLIP-RING.

- STANDBY TIME FROM 8:30 – 10:00

WENT OVER OTHER LOGS, IL. ST. GEO SURVEY BULLETIN THIS MORNING. INDICATES WE MAY BE WEST OF CLAY LAYER - THEREFORE MISSING IT. WILL DRILL TO 560' MSL. (~170) THIS IS BELOW LOWEST ELEV. FOR BOTTOM OF CLAY LAYER FROM AVAIL. INFO WELL 43N1E - 3.2S FROM I.S.G.S. SHOWS NO CLAY LAYER. THIS WELL IS PROBABLY AROUND COM. ED. PROP. DIRECTLY S. OF MW-2A.

10:00 PACH. NOT HERE. PUT REVERT IN 2-56AL. BUCKETS, START DRILLING @ 161½'

DIETZGEN NO. 386-3

TOTAL PVC = 196.25 (BEFORE CUTTING)

— 11.40 S.U "

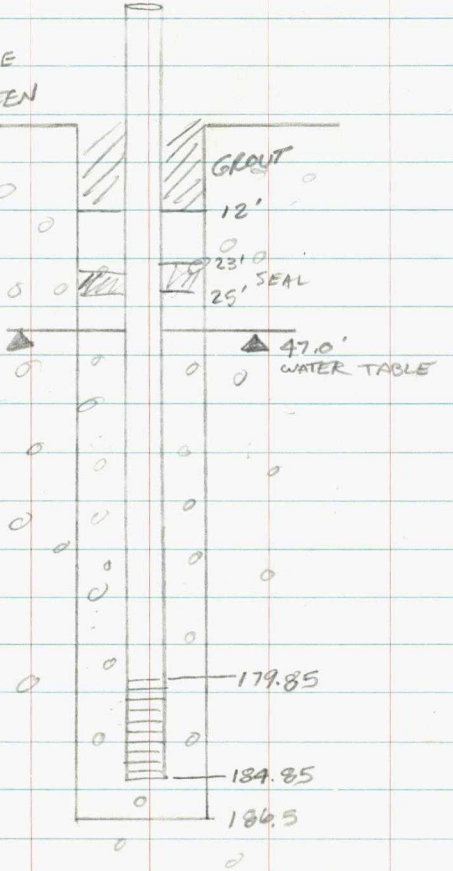
TIP @ 184.85' BELOW SURFACE

2.5' STICK-UP AFTER CUTTING

TOT. PVC = 187.35'

MW-2A
2" PVC PIPE
5' PVC SCREEN

LOCK # 2429
CUT NOTCH
IN PVC



MW-2A
K. PHILLIPS

1-30-95 (9)

DRILL TO 186½ W. 5' SAMPLES

1:00 E.O.B. @ 186½'. NO CLAY.

PACHOWITZ COMING TOMORROW.

BREAK RODS. GO FOR MORE PVC

2:00 BEGIN WELL INSTALLATION

2:40 WELL TIP IN @ 184.35' BELOW SURFACE.

GO GET H_2O TO FLUSH WELL. S&G

IS V. DENSE - WILL TRY LOW H_2O

PRESSURE WHEN FLUSHING TO BRING

OUT REVERT BEFORE S&G CAVES.

THIS WORKS. FLUSH W. 200 GALS.

CLEAN WATER UNTIL RETURN RUNS

CLEAR. HOLE CAVED @ 61'

4:00 (~10' BELOW AUGERS). REMOVE ALL

AUGERS. HOLE CAVES TO 25'

FILL W. S&G FROM HOLE TO

~15'. SECURE WELL

5:00 LEAVE SITE

DRILLED 25' TODAY. SET

187.35' PVC TOT.

DIETZGEN NO. 386-3

K. PHILLIPS THURS. 1-31-85 PEOPLES AV. BALLARD ELEC. (15)

7:00 CANONIE ARRIVES.

7:30 E&E. ITS -5°F WINDCHILL -45°!. THAW EQUIP. GROUT IN PROTECTIVE CASING FROM 12' GROUT GANG INTO S&G FORMATION. WILL HAVE TO DO AGAIN.

10:00 DRILLERS LEAVE SITE - TO COLD TO WORK. TOM PARKOWITZ (E&E) AND I MIX 5 GALS OF REVERT FOR SAMPLING. USE H_2O FROM QUAKER OATS WHERE WE'VE BEEN GETTING OUR H_2O SAMPLES TAKEN:

1 SOIL = DRY REVERT [2/3 oz. & 6 VOAS]

1 TAP WATER [1 GAL. 1 LITER 2 VOAS]

2 REVERT (MIXED W. H_2O) [1 GAL 1 ℓ. 2 VOA'S) ONE REVERT SAMPL SET SAVED AND TAKEN TO WAREHOUSE TO BE ANALYZED AFTER IT BREAKS DOWN.

OTHER SAMPLES SHIPPED FROM O'HARE BY TOM TO CONTRACT LABS

DIETZGEN NO. 386-3

55.72
4.85
7

55.72
54.20
1.52

DTW 48.00
5.3
5.4

55.72
2.50
53.22
- 48.00
$5.32

K. PHILLIPS 1-31-85 PEOPLES NY (11)

11:30-12:00 LUNCH

12:00-2:30 MEASURE PROP. LINES AT RUBIN STEEL CORP. & TRY TO FIND SPOT FOR UPGRADIENT WELL

2:30 LEAVE SITE

FRI.
2-1-85

TOO COLD AGAIN
— NO WORK —

NO WORK ON MONDAY 2-4-85. DRILLER NOT HERE. - ON VACATION.

NO WORK TUES, WED. DRILLER CAUGHT IN ALABAMA ICE STORM

THURS.
2-7-85

7:00 DRILLERS ARRIVE. TRY TO START TRUCK

7:30 E&E ARRIVE | PULL 7' NORTH FOR MW-2B. DTW (NOT DEVELOPED) = 49' IN MW-2A. SET UP RIG

8:30 BLIND DRILL TO 56'. SAME SOILS AS IN MW-2B (SEE LOG). ALL SAG.

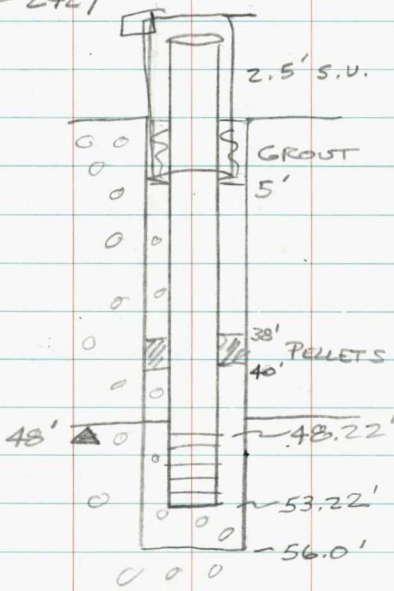
11:15-11:30 SET 2" PVC W. 5' SCREEN AT 53.22'

DIETZGEN NO. 386-3

MW-2B

2" PVC, 5' PVC SCREEN

LOCK # 2429



K. PHILLIPS PEOPLES AVE 2-7-85 (12)

11:30 PULL ALL AUGERS, LET S&G CAVE AROUND SCREEN. HOLE CAVES TO 40'. POUR IN ~2' BENTONITE PELLETS TO PREVENT GROUT FROM GETTING AROUND SCREEN. BACK-FILL W. S&G TO 5'.

12:00 LUNCH

1:30 DRILLERS RETURN AFTER GETTING CEMENT, PROTECT. CASING ETC. GROUT IN CASING, LOCK UP, CLEAN UP SITE, SECURE DRUMS (W. CUSTODY SEALS)

3:30 MOVE RIG TO MW-3A ON SAHLSTROM PROPERTY BY ABANDONED MUNICIPAL WELL #14. BORINGS ~30' EAST OF WELL. CLOSE AS WE CAN GET. SET-UP RIG.

4:00 DRILL W. H.S. SAMPLE @ 2.5' INTERVAL TO 18.5'. TYVEKS WORN HNU BACKGROUND = 0.6 ppm. NO READING ABOVE BR. IN HOLE

4:45 LEAVE SITE

DIETZGEN NO. 386-3

1 110.55

0'sc. 121.15

+5 126.15

5.15 SU @ 121'

126.15
− 5.50
120.65

K. PHILLIPS

PEOPLES AV.

MW-3A

FRI.
2-8-85

7:15 CANONIE / E&E ARRIVE AT SITE.
(CON'T. DRILLING MW-3A TODAY)
-7°F THIS MORNING. DRILLERS WAITING
TILL IT WARMS UP A LITTLE

8:00 START DRILLING @ 8.5'

12:00 LUNCH

4:30 DRILLED TO 116.5' SAMPLES @
5' INTERVALS FROM 10'. ALL SAG
NO CLAY YET.

4:45 LEAVE SITE

MON.
2-11-85

28° HEAVY SNOW

7:00 CANONIE ARRIVE. MIX MUD. SET UP

7:30 E&E ARRIVE

8:00 BEGIN DRILLING @ 116.5'. HIT
SILT @ 121'. DRILL TO
125 & SAMPLE AGAIN TO MAKE SURE

9:30 PULL RODS GET READY FOR WELL
INSTALLATION

9:45-10:45 GET MORE PVC PIPE

10:45-12:00 INSTALL 2" PVC WELL W. 10'
PVC .010 SCREEN @ 120.65'. WASH

DIETZGEN NO. 386-3

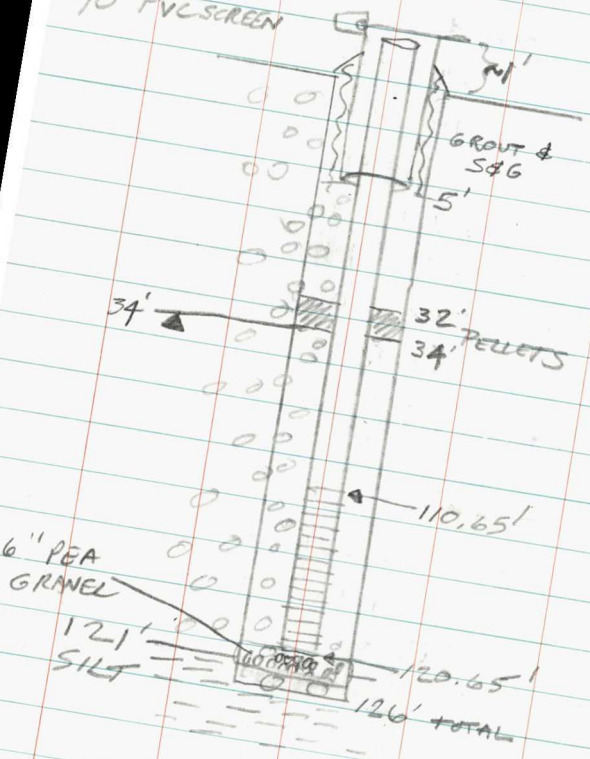
MW-3A

LOCK #2429

2" PVC

10' PVC SCREEN

"3A" CARVED IN GROUT



MW-3A PEOPLES AVE. (4)

CUT REVERT W. CLEAN WATER. TILL IT RUNS CLEAN. DRILLED SECTION (12'-12'6") OF SILT CAVED & FILLED W. SAND WHEN FLUSHING WELL. ADDED 6" CLEAN PEA GRAVEL BELOW SCREEN FOR SOLID BASE (IN SILT)

12:-12:30 LUNCH

12:30 PULL ALL AUGERS. HOLE CAVES TO 37'. BACKFILL W. S&G SPOILS FROM HOLE. PELLETS @ 34'-32' GROUT IN PROTECTIVE CASING. LEAVE 1' STICK-UP SO THAT TRUCKS CAN STRADDLE WELL. (THIS IS A LOADING DOCK AREA THAT I JUST FOUND OUT TODAY THAT IS STILL OCC. IN USE)

1:45 COMPLETED WELL/CASING INSTALLATION. PULL 6' NORTH FOR SHALLOW WELL MW-3B. BLIND DRILL TO 44'

4:00-4:15 SET 2" PVC WELL 44.1' PELLETS @ 20'-19'. BACKFILLED W. S&G FROM HOLE. 5' SCREEN.

4:30 LEAVE SITE AFTER SECURING WELL W. PROTECT. CASING

DIETZGEN NO. 386-3

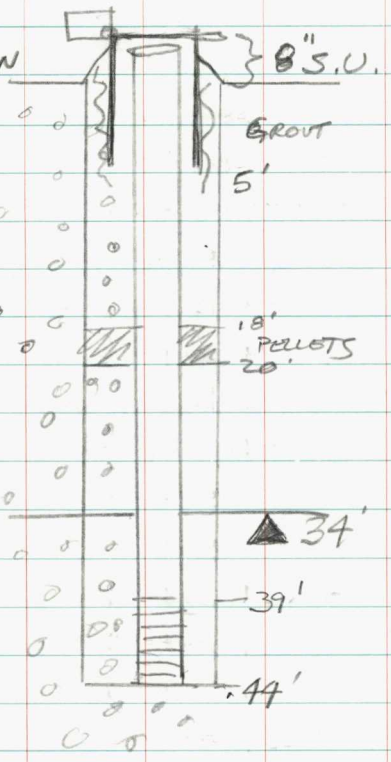
MW-3B

LOCK #2429

2" PVC

5' PVC SCREEN

.010 SCREEN



K. PHILLIPS TUES V. COLD (15)
PEOPLES AVE 2-12-85 SNOW
SAHLSTROM PROP.

7:00 CANONIE ARRIVE. GROUT IN PROT. CASING MW-3B. GET READY TO MOVE

8:00 TO 9:30 - STANDBY TIME - WAITING TO GET SNOW PLOWED FOR ACCESS TO MW-4A & B BEHIND SAHLSTROM OFFICE

9:30 MOVE & SET UP AT MW-4A

10:30 BEGIN DRILLING. HOLLOW STEM TO WATER TABLE (DTW = 38.5) TOTAL AUGERS USED = 45' SAMPLE @ 5' INTERVALS - SEE LOG. SWITCH TO ROTARY FOR 45' SAMPLE

12:45 GO GET H_2O. MIX MUD. THAW PUMP

1:30 BEGIN ROTARY DRILLING. DRILL TO 116½' 5' SAMPLE INTERVAL TO 50' 10' INT 50'-110'. THEN 5' INT. TO 116½' HIT CLAYEY SILT @ 113 - 116½'

4:30 STOP DRILLING. PACK UP

4:45 SECURE HOLE. LEAVE SITE

DIETZGEN NO. 386-3

10 @ 10.05 100.5

1 @ 5.05 5.05

2 SCREEN @ 10.6 10.60

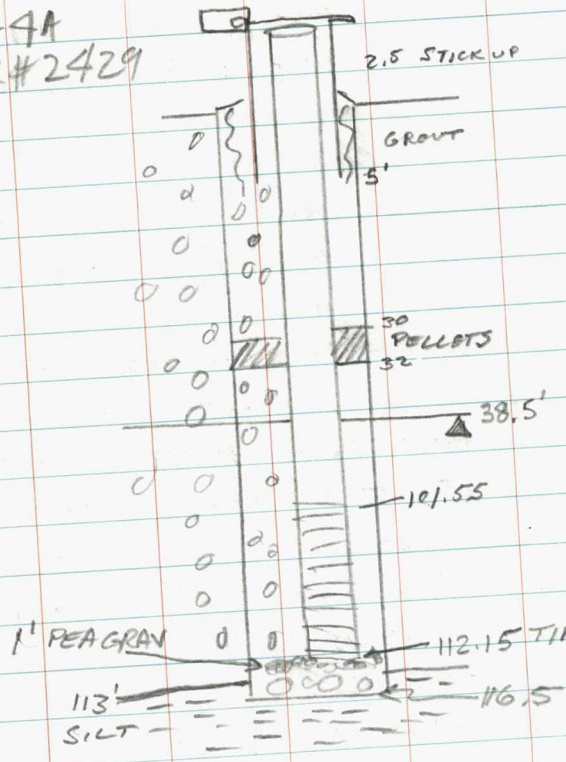
116.15

− 4.00' SU BEFORE CUTTING

112.15

MW-4A

LOCK #2429



K. PHILLIPS WED. 20° (16)
PEOPLES AVE 2-13-85 SUNNY
MW-4A

7:00 CANONIE ARRIVE. GET SET-UP
7:30 E&E ARRIVES
8:45 REAM HOLE W. ROVERO TO MAKE SURE IT STAYED OPEN TO 115'
PULL RODS ETC.
9:15 BEGIN WELL INSTALLATION. 2" PVC W. 10' SCREEN. TIP @ 112'. ADD 1' OF PEA GRAVEL TO BRING BOTTOM OF HOLE UP TO 112'. BOTTOM ORIGINALLY @ 115' S&G CAVED TO 113' THEN PEA GRAV TO 112'
10:00 WELL INSTALLED. PULL ALL AUGERS. BACKFILL W. S&G FROM HOLE. PELLETS @ 30'-32' S&G TO 5'. GROUT IN PROTECTIVE CASING.
11:00 MOVE SOUTH ~6' FOR MW4B SET-UP
12-12:30 LUNCH
12:30 BLIND DRILL W. HOLLOW STEM TO 50'
1:45 INSTALL 2" PVC WELL W. 5' SCREEN

DIETZGEN NO. 386-3

4 @ 10.05 40.2

1 @ 5.05 5.05

1 SCREEN 5.30

50.55

− 2.5 S.U

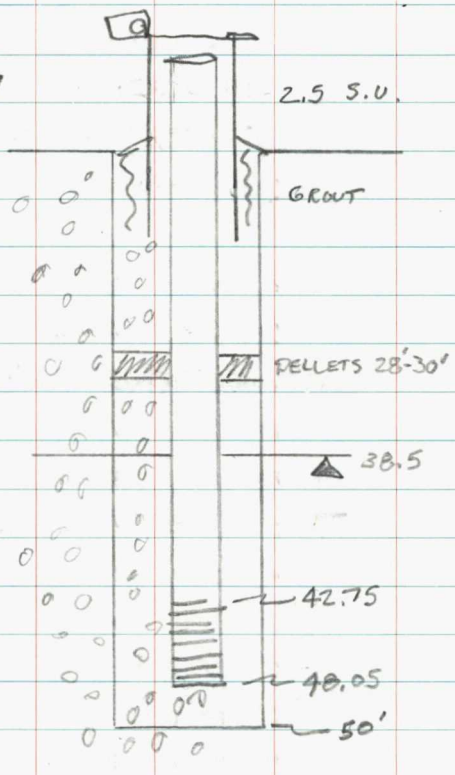
48.05

MW-4B

LOCK #2929

2" PVC

5' PVC SCREEN



MW-4B PEOPLES AVE. (17)

@ 48.05' S&G BACKFILL W. PELLETS
~30'-28'. GROUT IN PROTECTIVE
CASING

2:15 FINISHED WELL. CLEAN-UP
SITE. PACK TO MOVE

3:00 DRILLING WORK COMPLETED.

3:30 LEAVE SITE

THURS.

MW-5A 2-14-85

7:00 WAIT FOR SNOW TO BE
MOVED FROM MW-5A LOCATION
@ CRUMB-COLTON BLOCK CO.

9:30 MOVE TO MW-5A, SET-UP

10:30 BEGIN DRILLING, HOLLOWSTEM
TO 50'. DTW = 42'. SAMPLES:
5' INTERVAL 0-50', 10' INT.
50'-110'. 5' INT AGAIN 110-115'
DRILLED/SAMPLED TO 117'
HIT SILT & CLAY @ 115'
ROTARY W. REVERT BELOW 45'

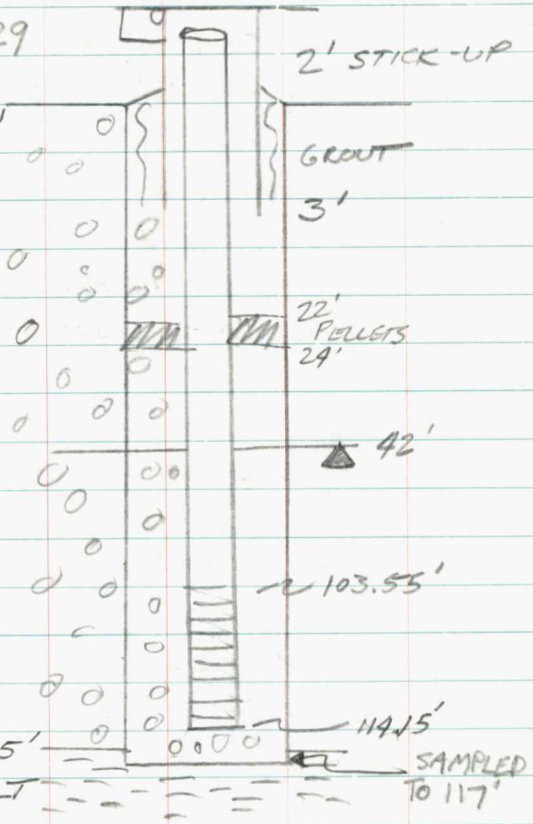
5:00 LEAVE SITE. SECURED HOLE

DIETZGEN NO. 386-3

10' SCREEN 10.6
10 @ 10.05 100.5
1 @ 5.05 5.05
116.15
- 2.00 S.U.
114.15

I.D. H.S. 3 3/4"
BIT USED ~3 1/4"
O.D. PVC 2 3/8"
O.D. H.S. ± 7"

MW-5A
LOCK #2429
2" PVC
10' PVC SCREEN



K. PHILLIPS FRI -25° (15)

PEOPLES AVE 2-15-85 SUNNY

MW-5A/5B

7:00 CANONE & E&E ARRIVE, GEORGE ROCK FROM CANONE BRINGS UP MORE PVC, 3/4" PVC TO DEVELOPE WELLS ETC. GET SET UP TO INSTALL WELL. HOLE STAYS OPEN TO 115'

9:00 BEGIN INSTALLATION. 2" PVC WITH 10' PVC SCREEN. TIP @ 114'. FLUSH W. CLEAN WATER UNTIL REVERT IS OUT AND WATER RETURN RUNS CLEAR (AS BEFORE.)

10:30 WELL IN, FLUSHED. REMOVE ALL AUGERS. HOLE CAVES TO 24'. PELLETS 24'-22'. BACKFILL W. S&G SPOILS. LEAVE 2' PVC STICK-UP.

CUT NOTCH IN 5A

11:30 MOVE 4' ~~WEST~~ EAST FOR MW-5B

12:00 BEGIN BLIND DRILLING W. HOLLOW STEM. DRILL TO 52'.

2:00 PUT IN 2" PVC WELL W. 5' SCREEN. TIP @ 51.55'

DIETZGEN NO. 386-3

4@ 10.05 40.25 5@" 50.25

1@ 5.3 5.3 1@" 5.3

1@ 5.05 5.05 55.55

50.55 -4.

-1.50

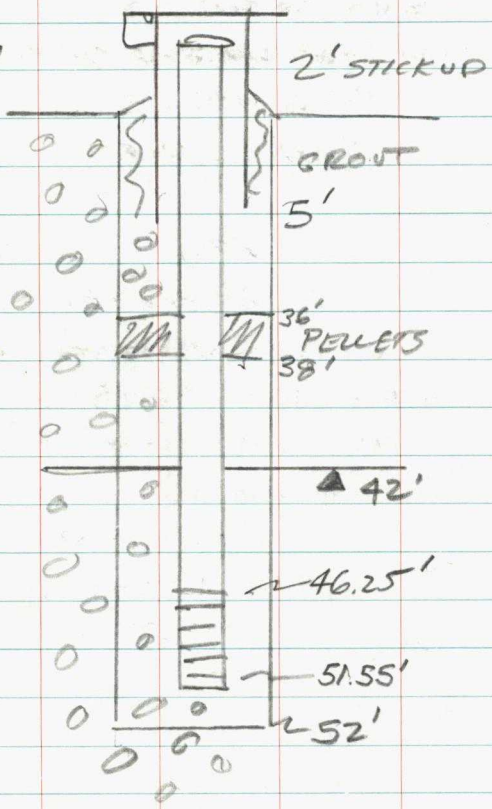
49.05

MW-5B

LOCK#2429

2" PVC

5' PVC SCREEN



MW-5B PEOPLES AV. 2-5-85 (19)
K. PHILLIPS

PULL ALL AUGERS. HOLE CAVES AROUND PVC TO 38'. PELLETS 38'-36'. BACKFILL W. 5 & 6 SPORS FROM HOLE. GROUT IN PROTECTIVE CASING FOR MW-5A AND 5B.

3:00 INSTALLATION COMPLETE. PACK UP

3:30 LEAVE SITE

MON 6' = 1 GAL
2-18-85

WELL DEVELOPMENT

MW-2A DTW = 48.8' } BEFORE DE.
MW-2B DTW = 49.6'

8:00 ARRIVE AT WELL. E&E TAKES DTW. DO 2A FIRST

184.85 - 48.8 = 136.05' OF H_2O

$\frac{136.05}{6}$ = 22.7 GALS = 1 VOL.

10 VOLS. = 220.7 GALS. = 45 BUCKETS @ 5 GAL/BUCKET

DIETZGEN NO. 386-3

FIGURES FOR DEVELOPMENT

MW-2A — SEE NOTES

MW-2B DTW = 49.6

53.22' − 49.6' = 3.6' H_2O

3.6 ÷ 6 = .6 GALS = 1 VOL

10 VOL = 6 GALS

MW-3A DTW = 33'

120.65 − 33 = 87.65' H_2O

87.65 ÷ 6 = 14.6 GALS = 1 VOL

10 VOL = 140.6 GALS = 28 BUCKETS

3B DTW = 33'

44' − 33' = 11' H_2O

11 ÷ 6 = 1.8 GALS = 1 VOL

10 VOL = 18 GALS = ~4 BUCKETS

MW-4A DTW = 37.2

112.15 − 37.2 = 74.9' H_2O

74.9 ÷ 6 = 12.5 GALS = 1 VOL

10 VOL = 125.0 GALS = 25 BUCKETS

4B DTW = 37.4

48.05 − 37.4 = 10.6' H_2O

10.6 ÷ 6 = 1.8 GALS = 1 VOL

10 VOL = 17.7 GALS = 3.5 BUCKETS

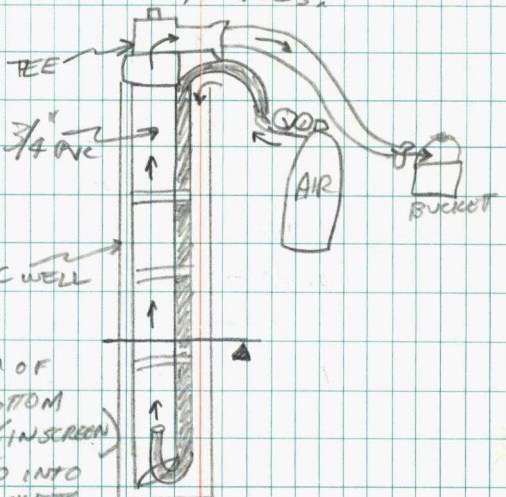
K. PHILLIPS 2-13-85

PEOPLES AV

8:10 BEGIN PUTTING PIPE IN. 3/4" PVC W. 1.85'
1/4" I.D. HOSE TAPED TO OUTSIDE AND
1' INSERTED INTO BOTTOM SECTION

8:30 PVC IS IN. PRESSURIZE @
USED BREATHING AIR. GRADE E 63 psi TO BRING WATER OUT
WATER IS GREENISH YELLOW

9:30 TOOK OUT 10 VOLS.



PUT BOTTOM OF
3/4" TO BOTTOM
OF WELL (IN SCREEN)
BLOW H_2O INTO
5 GAL. BUCKETS
TO MEASURE AMOUNT REMOVED

9:45 REMOVE 3/4"
10:00 3/4" INTO MW-2B. TOO LITTLE
H_2O TO BLOW OUT. MUST BE
BAILED

DIETZGEN NO. 386-3

MW 5A DTW = 43.0

114.15 − 43.0 = 71.15' H_2O

71.15 ÷ 6 = 11.8 GALS = 1 VOL

10 VOL = 118.5 GAL. = 23.7 BUCKETS

5B DTW = 43.2

51.55 − 43.2 = 8.4' H_2O

8.4 ÷ 6 = 1.4 GAL = 1 VOL

10 VOL = 14 GAL = 2.8 BUCKETS

MW-1A DTW = 40.4'

101.5 − 40.4 = 61.1' H_2O

61.1 ÷ 6 = 10.2 GALS = 1 VOL

10 VOL = 102 GALS = 20.4 BUCKETS

1B DTW = 40.9'

44.05 − 40.9 = 3.15' H_2O

3.15 ÷ 6 = .5 GAL = 1 VOL

10 VOL = 5 GAL = 1 BUCKET

10:15 3/4" OUT. WRAP UP HOSE. GO TO MW-3A/B

10:20 TAKE DTW @ 3A & B

DTW - 3A = 33' 3B = 33'

10:30 BEGIN PUTTING IN PIPE

10:45 PRESSURE @ 40 psi. H_2O COMES OUT. GREENISH COLOR

11:30 TOOK OUT 10 VOLS. MW-3A PUT PVC IN 3B. CAN ONLY GET 5 GALS. OUT. SHOULD BAIL OUT MORE. (GOT 6 GALS OUT)

12:00 DONE @ 3A & B LUNCH

12:30 MOVE TO 4A/B TAKE DTW.

12:40 PUT PVC IN. BLOW OUT H_2O W. 40 psi. TOOK OUT 10 VOLS.

1:15 TRY MW-4B W. AIR. NO GOOD. HAVE TO BAIL IT LATER

1:30 GO TO MW-5A/B TAKE DTW

1:45 PUT PVC IN. BLOW H_2O OUT 50 psi. ONLY GET 20 GALS. OUT. THEN RUN OUT OF AIR. WILL DO AGAIN WHEN D'ING WATER

DIETZGEN NO. 386-3

2-19-85

WELL	PVC TOP CASING	GRND	DTW	H_2O ELEV
G101	739.46	736.86	45.95	693.51
G102	742.11	739.12	48.59	693.52
G104	738.31	736.40	45.22	693.09
MW 1A	732.58	730.27	42.2	690.38
1B	732.28	730.27	42.00	690.28
2A	741.43	738.90	50.62	690.81
2B	741.34	738.90	50.78	690.56
3A	725.08	724.67	32.62	692.46
3B	725.20	724.67	32.71	692.49
4A	731.81	729.98	38.60	693.21
4B	732.16	729.98	38.96	693.20
5A	737.32	735.70	43.96	693.36
5B	737.61	735.70	44.29	693.32

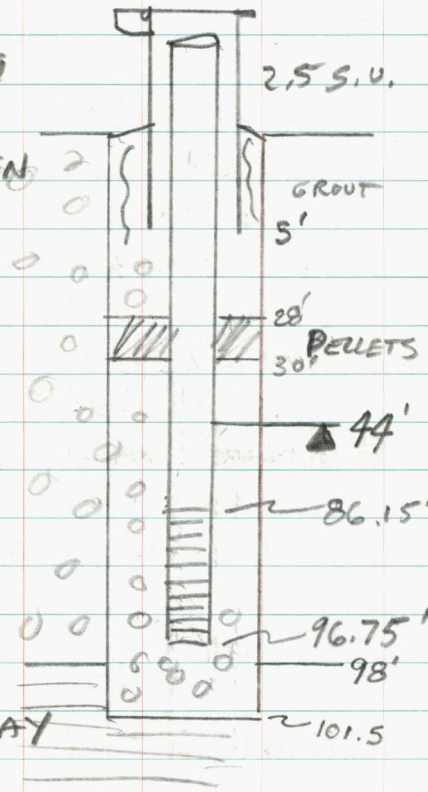
K. PHILLIPS PEOPLES AVE (22)

WELLS. WE ARE BAILING MW-5B.
3:00 MOVE TO 4B, 3B, 2B TO
BAIL W. BAILER. REMOVE
10 VOLS FROM EACH
4:30 DONE BAILING
LEAVE SITE
8 1/2 HR. DEVELOPING TODAY
TUES
2-19-85
7:00 E&E ARRIVES
7:20 CANONIE ARRIVES
DEVELOPE MW-1A & 1B
7:45 PIPE GOES IN. CAN'T FIND
TEE, HOSE ETC.
8:30 BEGIN BLOWOUT, ALSO
BAIL 20 VOLS FROM MW-1B.
WON'T BAIL CLEAR. V.
PUNGENT ODOR. 0.6 ppm
ABOVE BACKROUND ON HNU
GRAY COLOR
9:30 TOOK 10 VOL FROM MW-1A.
DONE HERE. GO PACK CPRIG
@ MW-5A
9:15 TIM McDERMOTT & KEVIN SOBOSKY

DIETZGEN NO. 386-3

80.4 101.05
5.05
10.60
96.05

MW-6
LOCK #2429
2" PVC
10' PVC SCREEN



K. PHILLIPS
2-19-85

PEOPLES AN
IPC

(2)

FROM E&E ARRIVE TO SHOOT ELEV.
ON EXISTING WELLS. I TAKE THEM
AROUND AND SHOW THEM LOCATIONS

10:15 MOVE RIG TO MW-6 NEXT TO
IEPA WELL 6104 ON QUAKER OATS
PROPERTY. SET UP RIG

10:45 BEGIN DRILLING MW-6

12-12:30 LUNCH

4:30 STOP DRILLING. HIT CLAY @
~98'. SAMPLED 5' INT 0-50
10' INT 50'-100'

4:45 LEAVE SITE

TODAY { DRILLED/SAMPLED TO 101.5'
DEVELOPED MW/A/B & 6104
TOOK H_2O LEVELS & SHOT ELEV. —
T. McDERMOTT, K. SOBNOSKY

WED.
2-20-85

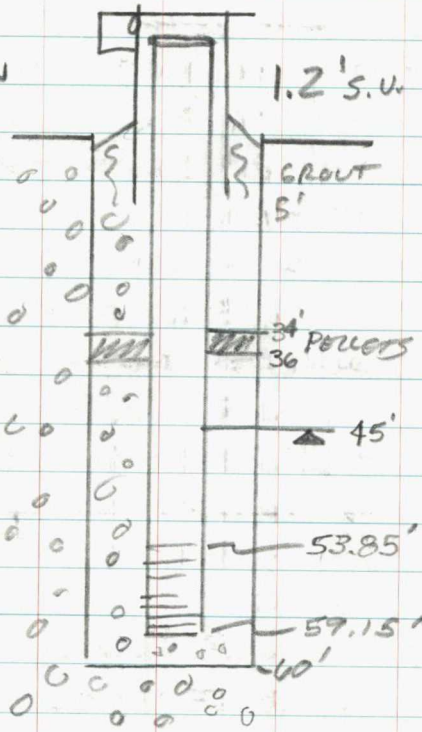
7:00 CANONIE ARRIVES. GETS SET UP
MIX MUD. REAM HOLE TO 100'

8:00 E&E ARRIVES

DIETZGEN NO. 386-3

5 @ 10.05
1 @ 5.3
1 @ 5.05
60.35

MW-7
Lock # 2429
2" PVC
5' PVC SCREEN



K. PHILLIPS PEOPLES AVE 7-20-95 (24)
MW-6

8:30 PUT IN 2" PVC WELL. FLUSH W. CLEAN WATER AS BEFORE

9:00 PULL ALL AUGERS. HOLE CAVES TO 30'. PELLETS 30'-28'. BACK FILL W. S&G SPOILS. GROUT IN PROT. CASING FROM 5'. LEAVE 2.5' ST. UP.

10:15 PACK UP TOOLS TO MOVE

10:30 MOVE TO MW-7 ON QUAKER OATS PROPERTY (BY GUARD HOUSE)

10:45 WAIT FOR CAR TO BE MOVED OUT OF THE WAY

11:20 MOVE ONTO MW-7

12:00 BEGIN BLIND DRILLING. DRILL TO 60' W. H.S.

1:30 PUT IN 2" PVC WELL. PULL ALL AUGERS. HOLE CAVES TO 36' PELLETS 36'-34'. BACKFILL W. S&G SPOIL. GROUT IN PROT. CASING.

2:30 WELL IN. BAIL OUT 10 VOLS. W. BAILER TO DEVELOPE WELL

3:30 DONE DEVELOPING. PACK UP, GET READY TO MOVE TOMORROW

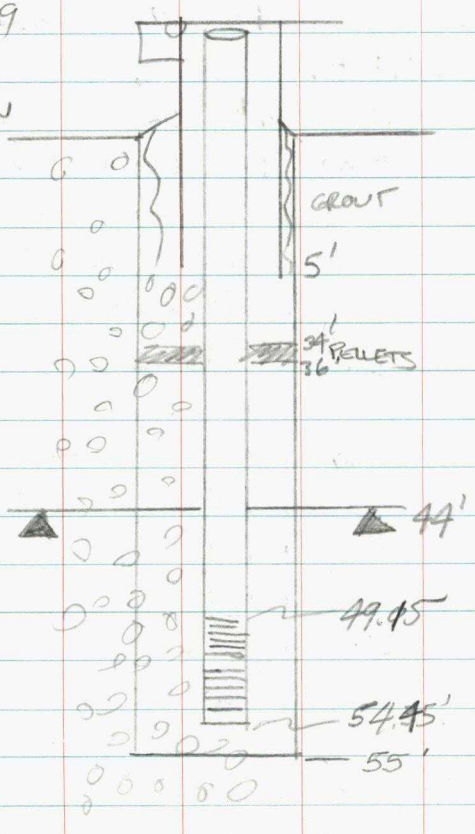
4:00 LEAVE SITE

DIETZGEN NO. 386-3

5 @	10.05	50.25	54.45
1 @	5.3	5.3	5.3
1 @	5.05	5.05	49.15

60.65' TOT. PVC
− 6.20 S.U.
54.45 TIP DEPTH

MW-8
LOCK #2429
2" PVC
5' PVC SCREEN



K. PHILLIPS
MW-8

PEOPLES AVE.

(25)

THURS. 2-21-85

— RAIN - OUT —

MW-8
LOCATION IS IN
CITY OWNED STREET
NOT YET PUT IN.
O.K'D BY TOM TULLOCK D.P.W. ROCKFORD

FRI
2-22-85

8:00 MEET AT RIG. MOVE TO
NORTH SIDE OF GUNITE POND
(MW-8)

8:15 SET UP. CAN'T GET RIG
STARTED. SHORTED WIRE

10:00 START RIG CON'T. SET-UP

10:30 BEGIN DRILLING W. H.S.
SAMPLES TAKEN (NOT KEPT)
@ 5' INTERVALS. SEE LOG

1:00 DONE DRILLING. BEGIN WELL
INSTALLATION (2" PVC, 5' PVC
SCREEN). TIP @ 54.45' DTW=44'

1:10 PIPE IN. PULL ALL AUGERS
HOLE CAVES TO 36'. PELLETS 36'-34'
BACKFILL W. S&G SPOILS TO 5'
GROUT IN PROTECTIVE CASING

3:30 WELL INSTALLED. PACK-UP

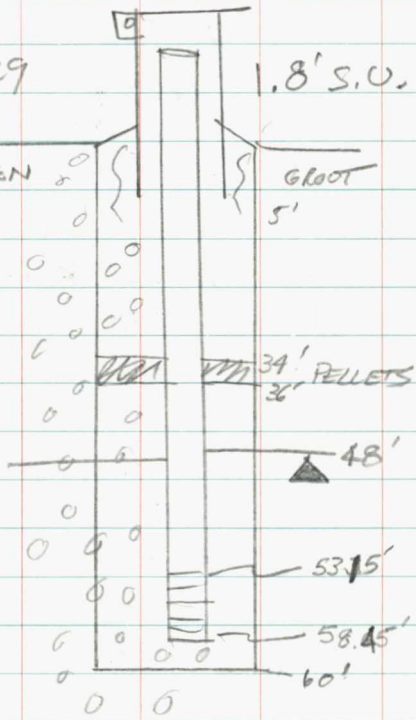
4:00 LEAVE SITE

DIETZGEN NO. 386-3

5 @ 10.05
1 @ 5.3
1 @ 5.05

60.65 TOT PVC
− 1.80
58.45

MW-9
LOCK #2429
2" PVC
5' PVC SCREEN



K. PHILLIPS

CLOUDY 40's

(26)

MW-9

MON
2-25-85

7:00 CANONIE ARRIVES. GET H_2O

7:30 E&E ARRIVES

7:40 MOVE TO MW-9. SET UP ON AIR MANAGEMENT SUPPLY PROPERTY SOUTH OF HARRISON ST.

8:30 BEGIN BLIND DRILLING W. H.S. NO SAMPLES. DRILL TO 60'

10:15 PUT IN 2" PVC WELL W. 5' PVC SCREEN (0.010) PULL ALL AUGERS. TIP @ 58.45'

10:45 ALL AUGERS OUT. HOLE CAVES TO 36' PELLETS 36'-34'. BACKFILL WITH S&G SPOILS TO 5'

10:50 GO FOR CEMENT

11:00 MIX GROUT. INSTALL PROTECTIVE CASING

11:10 CASING IN. PACK UP TO MOVE BACK TO QUAKER OATS PARKING LOT TO LEAVE RIG

12:00 - 12:30 LUNCH

DIETZGEN NO. 386-3

K. PHILLIPS PEOPLES AN/IRC (7)
2-25-85

12:30 BAIL 10 VOLS. FROM MW-8
DTW = 43.5'
54.45 - 43.5 = 10.95' H_2O
10.95 ÷ 6 = 1.82 GALS = 1 VOL
10 VOL = 18.25 ÷ 3.6 BUCKETS

1:15 DONE DEVELOPING MW-8.
WATER WAS V. DRK BRN W.
OILY SHEEN. WOULDNT COME
CLEAN. MOVE TO MW-6

1:45 BEGIN DEVELOPE. MW-6
DTW = 43.3'
96.75' - 43.3 = 53.45' H_2O
53.45' ÷ 6 = 8.9 GALS = 1 VOL
10 VOLS = 89 GALS = 17.8 BUCKETS

2:10 DONE DEVELOPING MW-6, USED
3/4" PVC W. 1/4 TUBING AS BEFORE
BLEW OUT WATER W. 30 psi.
GRADE E BREATHING AIR.
REMOVED 10 VOLS. WATER WAS
CLEAR AFTER 1ST 10 GALS.

2:15 BEGIN BAILING MW-9
DTW = 45.5
58.65 - 45.5 = 13.15' H_2O
13.15 ÷ 6 = 2.19 GALS = 1 VOL
10 VOL = 22 GALS = 4.4 BUCKETS

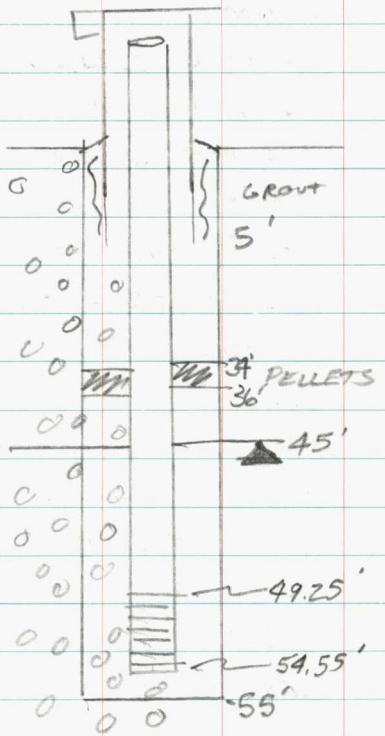
DIETZGEN NO. 386-3

2-26-95 @ 9:30AM.

MET W. A. BECKSTRAND, ATTORNEY FOR GUNITE - WILL GET BACK TO ME BY FRI. 2-29 ABOUT ACCESS. NEEDS INDEMNITY AGREEMENT SENT TO HIM.

60.65 TOT. PVC
- 6.10 S.U. TIP
54.55

MW-10
LOCK #2429
2" PVC
5' PVC SCREEN



3:15 DONE DEVELOPING

3:30 LEAVE SITE

TUES
2-26-85

7:00-8:30 MOVE DRUMS WITH SPOILS
TO DESIGNATED SPOT AT QUAKER OATS
PROPERTY

* 8:30 STANDBY TIME
TO WAIT FOR UTILITIES TO CLEAR
11:15 MW-10 AT MURPHY FREIGHT LINES

11:15 SET UP FOR MW-10 IN PARKWAY
BY MURPHY FREIGHT.

11:30 BEGIN DRILLING. BLIND DRILL TO 55'
NO SAMPLES DTW = 45'. HOLLOW STEM

12-12:30 LUNCH

12:30 - 1:00 FINISH DRILLING TO 55'

1:00 BEGIN WELL INSTALLATION. 2" PVC
5' PVC SCREEN. TIP @ 54.55'. PULL
ALL AUGERS. HOLE CAVES TO 36'

1:30 PELLETS 36'-34'. BACKFILL W. S&G
SPOILS TO 5'

1:30 - WELL IN. GROUT IN PROTECTIVE
1:40 CASING

DIETZGEN NO. 386-3

2:15 MOVE TO MW-11 ON IPC
PROPERTY SET UP RIG
2:40 BEGIN DRILLING. SAMPLES @ 5' INT.
SEE LOG HOLLOWSTEM
4:30 DONE DRILLING FOR THE DAY. DRILLED
SAMPLED TO 46.5' DTW = 44'
4:45 LEAVE SITE.

MW-11 CONT. WED. 2-27-85 SUNNY WINDY HIGH 30's

7:00 CANONIE ARRIVES. GET H_2O, SET UP,
MIX REVERT
7:15 E & E ARRIVES
8:00 BEGIN DRILLING ROT./REVERT. @
46.5' SAMPLE 5' INT.
DRILL & SAMPLE TO 106½'. SILT
@ 102'.
12:00 BEGIN WELL INSTALLATION. TIP
@ 100' 2" PVC. 10' PVC SCREEN.
FLUSH W. CLEAN H_2O AS BEFORE
INSTALL PROT. CASING
1:30 DONE W. WELL. PACK UP RIG
THERE ARE 5 BORINGS LEFT

DIETZGEN NO. 386-3

9 @ 10.05
7 @ 10.60
1 @ 5.05

106.1
- 5.95 SU
100.2

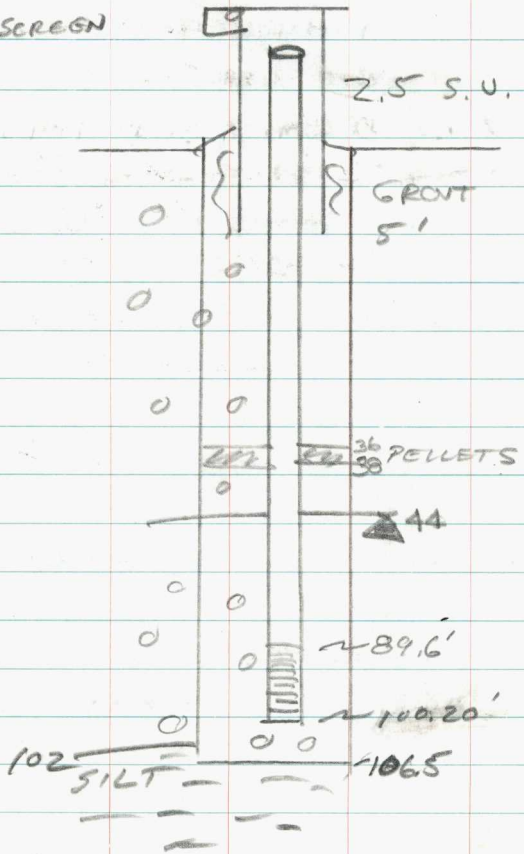
~~26.5' PVC~~ SOLID PIP

MW-11

LOCK #2429

2" PVC

10' PVC SCREEN



R. PHILLIPS
2-27-95
MW-11

IPC

ON GUNITE PROPERTY WHICH WE DON'T HAVE ACCESS TO YET. JERRY & RICK WILL BE LEAVING. ANOTHER CANONSIE CREW WILL DO REMAINING BORINGS WHEN THEY BECOME AVAILABLE. JERRY GOING TO FLORIDA WILL DECON RIG BEFORE LEAVING

2:00 START DECON = STEAM CLEANING
4:30 DONE DECON. CLEAN TRUCKS
4:45 LEAVE SITE

THURS.
3-7-85

PHILLIPS, COZZA, MORALES
E&E MOVE 4 FULL & 1 EMPTY DRUM FROM PEOPLES AVE. DRILLING TO SANDPARK. TOTAL 9 DRUMS @ S.P. ESDA BUILDING @ RIVERSIDE BLVD.
4 DRUM - PEOPLES (MW 1 & 2)
5 DRUM - SANDPARK DRILLING

DIETZGEN NO. 386-3

TOTAL PVC PIPE @ S.P. = 265'

5' = 175

10' = 90'

10 SCREENS ALSO

TAURS.
3-7-85

DRUMS

PEOPLES
- A - 1 WATER SAMPLE
- B - 1 WATER, 1 SOIL SAMPLE
- C - 1 SOIL
- D - GARBAGE & SOME DIRT

S.P.
- E - 1 SOIL SAMPLE
- F - 1 SOIL "
- G - GARBAGE & SOME DIRT
- H - 1 WATER, 1 WATER DUP.
- I - 1 WATER, 1 MATRIX SPIKE

→ 1 EMPTY BARRELL (HAD CLEAN SAG

TOTAL SAMPLES TAKEN
4 WATERS
4 SOILS
1 DUP
1 BLANK
1 MATRIX

ALL DRUMS LEFT ON CEMENT PAD BEHIND BUILDING. ALL EXCEPT EMPTY SEALED AND/OR BOLTED.

DIETZGEN NO. 386-3

SAND PARK WELL SAMPLING
APRIL 1, 1985

PHILLIPS
ALLANS
NELSON

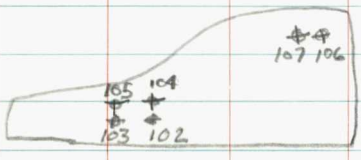
	1-9-85			4-1-85		
	DTW	TOT. PVC	H_2O ELEV.	DTW	TOT PVC	H_2O ELEV.
G107	22.63	45.75	724.23	21.59		725.27
G106	22.69	62.38	724.32	21.68		725.33
G105	15.10	19.81	715.17	14.04		716.23
G104	13.63	51.31	715.24	12.46		716.41
G103	14.19	19.43	717.60	13.17		718.62
G102	13.56	19.43	717.62	12.54		718.64

NOTE: G102 SHOULD BE 51.4' TD.

TOP PVC ELEV. 1-9-85

G107 746.86 - 21.59 = 725.27
106 747.01 - 21.68 = 725.33
105 730.27 - 14.04 = 716.23
104 728.87 - 12.46 = 716.41
103 731.79 - 13.17 = 718.62
102 731.18 - 12.54 = 718.64

G106 - NOTCHED - KEY # 2330
G107 - KEY # X2149



R05-8303-16 1L0219 K.PHILLIPS (32)

PURGE VOLUMES 4-1-85

SAND PARK SAMPLING

6107 45.75
-21.59
24.20' H_2O ÷6 = 4 GALS = 1 VOL

5 VOL = 20 GALS

6106 62.38
-21.68
40.70' H_2O ÷6 ≈ 6.6 GALS = 1 VOL

5 VOL = 33.0 GALS

6105 19.81
-14.04
5.77' ÷6 = ~.96 GALS = 1 VOL

5 VOL = 5 GALS

6104 51.31
-12.46
38.85' ÷6 = ~6.5 GALS = 1 VOL

5 VOLS = 32.5 GALS

6103 19.43
-13.17
6.26 ÷6 = ~1 GAL

5 VOL = 5 GAL

6102 19.43
-12.54
6.89 ÷6 = 1.5 GAL

5 VOL = 5 GAL

OVER →

DIETZGEN NO. 386-3

K. PHILLIPS

4-1-85

SAMPLED ALL WELLS FOR PRIORITY POLLUTANTS. USED ROBAIR PURGE SYST. FOR G106, 104, 105, 102, 103. REMOVED 4 VOLS W. PUMP & ONE VOL. W. STAINLESS STEEL BAILER BEFORE SAMPLING. G102, 103 HAD NO CAPS. G102 WAS PLUGGED W. SOMETHING ~20'. LOST PLUMB BOB FROM STEEL TAPE IN WELL (TRYING TO PASS/PUSH DOWN THE OBSTRUCTION). ROBAIR PUMP WAS SUCCESSFUL IN PUSHING DOWN OBSTRUCTION — FELT LIKE PAPER OR A RAG. SAMPLE RESULTS MAY BE SUSPECT. ROBAIR PUMP & TUBING WAS DECONED W. TSP & DISTILLED H_2O BETWEEN WELLS.

ARRIVED @ SITE AT 9:30AM.

LEFT @ 6:45 PM. H_2O LEVELS TEMPS, CONDUCTIVITY & PH MEASURED. ALL WELLS RECHARGED O.K. WATER IS FAIRLY CLEAR.

PHILLIPS
GOODE

MON
4-15-85

11:00 E&E ARRIVES @ Q.O. PARKING LOT. WAIT FOR CANONIE. BEGIN PEOPLES AVE/EPC AGAIN. DRILLING TO BE ON GUNITE PROP.

12:00 CANONIE ARRIVES. WAIT FOR HELPER TO ARRIVE

2:00 BEGIN RIG & TOOL STEAM CLEANING. THEIR STEAM-CLEAN. WON'T WORK. HAVE TO GO TO LOCAL CAR WASH

5:30 DONE DECON.

5:40 LEAVE SITE

PHILLIPS
GOODE

TUES
4-16-85

WINDY MW-12A
60'S

7:30 MOVE RIG TO MW-12A ON GUNITE PROPERTY BY POND. BEGIN SET-UP

8:00 BEGIN DRILLING W. H.S.
HNU BACKGROUND = 0.2 ppm
DRILL TO '44' NO SAMPLES KEPT. LOG FROM AUGERS.

DTW
~40'

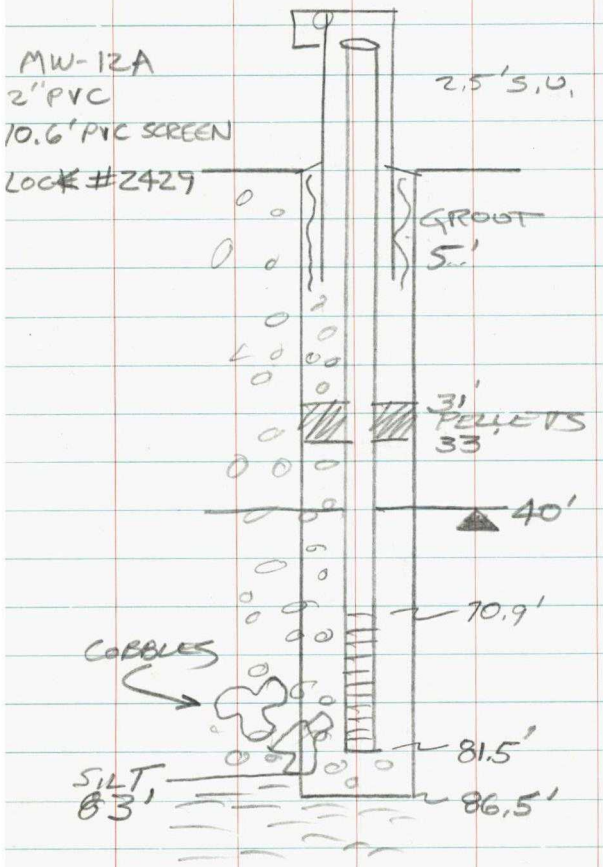
9:15 SET UP FOR ROTARY/REVERT

DIETZGEN NO. 386-3

2 @ 5.3 = 10.6
7 @ 10.05 = 70.35
1 @ 5.05 = 5.05

86' PVC
- 4.5

81.5
10.6
70.9



MW-12A CONT

(4)

USE 3¼" ROLLER BIT

10:00 BEGIN ROTARY DRILLING @ 34' (~10' OF BLOW-UP IN H.S.)

10:30 HIT SILT LAYER @ 83'
SS SAMPLE FROM 85'-86.5'

10:45 PULLED ALL RODS. GO TO PARK FOR PVC. LUNCH

12:15 BEGIN WELL INSTALLATION.
2" PVC PIPE, 10' PVC 0.010 SCREEN
TIP @ 81.5'

12:30 BEGIN TO FLUSH OUT REVERT W. I 200 GALS. CLEAN WATER

1:00 WELL IN AND FLUSHED. S&G CAVED TO BOTTOM OF AUGER (~45') PULL ALL AUGERS.

1:30 ALL AUGERS OUT. HOLE CAVES TO 33'. PELLETS 33'-31'.
S&G SPOILS BACKFILL TO 5'

2:00 GO FOR PEA GRAV. TO FILL HOLE FROM 10' TO 5'. ALSO GET GROUT & WATER.

2:15 START MW-12B. DRILL W. H.S. TO 50'

DIETZGEN NO. 386-3

MW-12A,B PEOPLES / IPC

(35)

PHILLIPS
GOODE

2:30 MW-12A COMPLETE. PROT. CASING IS GROUTED IN.

4:00 BLIND DRILLED 12B TO 50. PUT IN PVC. HOLE BLOWS UP TO ~35' PVC WON'T GO DOWN. TRY LIFTING AUGERS, JETTING WATER AT TIP ETC. WILL NOT GO PAST 45' (DTW = 40'; NEED TIP @ 50') REMOVE AUGER

4:30 PULL OUT PVC. TOMORROW WE WILL USE REVERT TO CLEAN HOLE & INSTALL WELL. 45' AUGER IN HOLE. SET UP FOR ROTARY, PICK-UP TOOLS ETC.

5:00 LEAVE SITE. LOCK GATE

PHILLIPS
GOODE

WED.
4-17-85

CLEAR
60'S

7:00 E&E, CANONIE ARRIVE SITE SET-UP, GO FOR WATER, MIX REVERT FOR MW-12B

DIETZGEN NO. 386-3

5 @ 10.05 = 50.25

1 SCREEN = 5.30

55.55' PVC
5.80
49.75

MW-12B
2" PVC
5' PVC SCREEN
LOCK #2429

MW-12B CONT. PEOPLES/DPS (26)
PHILLIPS
GOODE

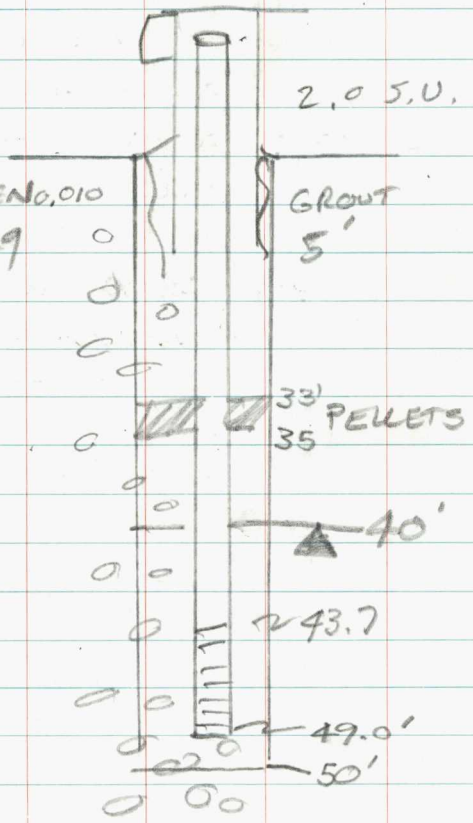
8:00 REDRILL HOLE TO 50' W.
REVERT.
8:15 BEGIN WELL INSTALLATION.
2" PVC W. 5' PVC SCREEN. TIP
@ 49.75'. FLUSH W. ~100 GALS
CLEAN WATER
8:30 REMOVE ALL AUGERS. HOLE
CAVED TO 33'. PELLETS
33' TO 31', S&G SPOILS
BACKFILL TO 5'. GROUT
IN PROT. CASING.
9:00 WELL INSTALLATION COMPLETE
PACK UP TO MOVE TO MW-13
9:30 SET UP ON MW-13 AT
SW COR. GUNITE MAIN PLANT.
9:45 BEGIN BLIND DRILLING
W. H.S. AUGERS. DRILL TO
50'
11:00 BEGIN WELL INSTALLATION.
HOLE CAVED TO 40'. PVC
WON'T GO DOWN. PLAN TO
JET WATER IN W. HOSE
AND LIFT AUGERS.

DIETZGEN NO. 386-3

9@ 5.05 = 45.45
1@ 5.3 = 5.3
50.75
1.25
44.00

50.50
5.3
55.8
- 3.0
52.8

MW-13
2" PVC
5' PVC SCREEN 0.010
LOCK #2429



GOODE
MW-13

PEOPLES/IPC

(37)

11:15 GO FOR WATER
11:30 PVC GOES DOWN TIP @ 49'
12:45 WELL INSTALLATION
COMPLETE. CLEAN UP SITE
1:15 WASH AUGERS
1:30 MOVE TO MW-14. UNLOCK GATE.
GO TO PARK FOR PVC. LUNCH
3:00 START TO DRILL MW-14.
BLIND DRILL W. H.S. TO 50'
DTW ~ 43'. S&G BLOWUP
TO 45. ROTARY W. REVERT
45'-55'.
5:00 BEGIN WELL INSTALLATION
HOLE CAVED TO ~51'. (WE
SHOULD HAVE CLEANED HOLE
BETTER) TIP @ 52.8'. FLUSH
PVC W. ~100 GALS CLEAN H_2O.
PULL 45' H.S. LEAVE HOLE
W. H.S. OVER IT UNTIL
TOMORROW. A PROT. CASING
BEING BROUGHT OUT.
6:00 LEAVE SITE

DIETZGEN NO. 386-3

PHILLIPS
KODITEK

WELL DEVELOPS.
MW-11, 10, 13
4-18-85

MW-11
DTW = 42'

100 - 42 = 58' H_2O

58 ÷ 6 = 9.6 GALS = 1 VOL.

10 VOLS = 96 GALS = 19 5 GAL BUCKETS

MW-10 DTW = 43'

54.5' - 43' = 11.5'

11.5 ÷ 6 = 1.9 GALS = 1 VOL

10 VOL = 19 GALS = 3.8 BUCKETS

MW-13 REMOVED 20 GALS.

PHILIPS GOODE PEOPLES/IPC CLEAR 70's (32)

4-18-85

7:00 E&E, CANONIE ARRIVE GET EQUIP. FOR WELL DEVEL. & PROTECT CASING REPAIR

8:15 BEGIN WELL DEVELOPMENT. WILL DO MW-11, 10 & 13 TODAY. THIS LEAVES MW-12A B, MW-14 STILL TO DO. MUST WAIT FOR REVERT TO BREAK DOWN 1ST. THIS IS ONLY DAY 2 FOR MW-12A, B. USE FORCED AIR SYST. AS BEFORE FOR MW-11. BAIL MW-10, 13. WILL REMOVE 10 VOLS.

REMOVING 4.5 GALS PER MIN. AT 32 PSI

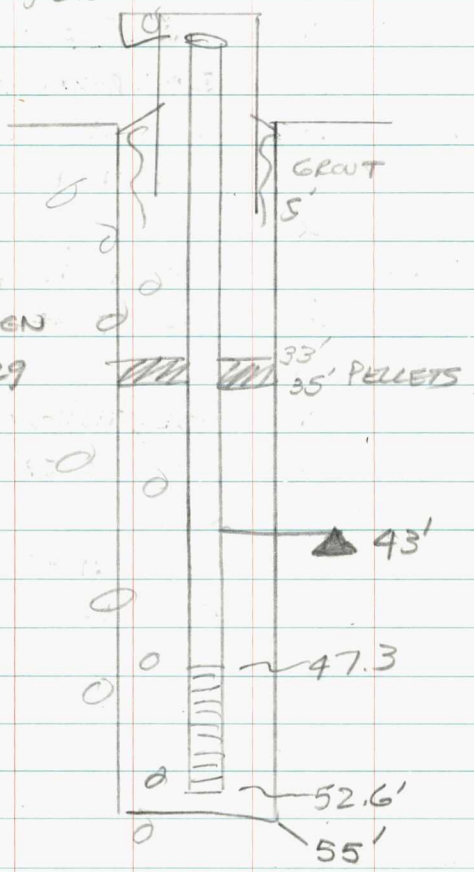
9:30 DEV. DONE FOR CANONIE BY J. GOODE (E&E) BAILS MW-10/13 CANONIE GOES TO SAND PARK TO LOAD UP TRAILER, GET PROT. CASING ETC.

12:00 RETURN TO MW-14. PULL OUT LEAD AUGER, CON'T. WELL INSTALLATION

DIETZGEN NO. 386-3

10 @ 5.03 = 50.3
1 @ 5.3 = 5.3
55.6
3
52.6

MW-14
2" PVC
5' PVC SCREEN
LOCK #2429



MW-1A CONT
PHILLIPS
GOODE

PEOPLES/IPC
4/8/85

12:15 HOLE CAVED TO 43'. BACKFILL
W. S&G SPOILS TO 35'
PELLETS 35'-33'. BACKFILL
TO 5'. INSTALL PROT. CASING
12:45 WELL INST. COMPLETE
CLEAN UP SITE PACK UP
RIG.
1:00 GO TO REPAIR GROUT
PLUGS AROUND MW-2A, 4A+B
5A+B
2:30 DONE W. REPAIR. GO TO
CAR WASH. TO STEAM CLEAN
AUGERS
3:30 DRILLING JOB COMPLETE
LEAVE SITE.

DIETZGEN NO. 386-3

PURGING DATA

PEOPLES/IPC

4-22-85

WELL	DEPTH (FROM SURFACE)	DTW	GALS. REMOVED	ROBAIR USED	H_2O ELEV
1A	101.5	41.05	50	X	691.53
1B	44'	40.84	2.6		691.44
2A	184.8	49.48	113	X	691.95
2B	53.2	49.53	3.3		691.81
3A	120.6	31.43	74	X	693.65
3B	44'	31.56	10.8		693.64
4A	112.15	37.46	62.5	X	694.35
4B	48	37.82	8.3		694.34
5A	114.15	42.84	60	X	694.48
5B	51.5	43.16	6.5		694.45
6	96.75	43.98	44.1	X	
7	59.15	48.11	9.2		
8	54.45	43.86	8.3		
9	58.45	46.16	10		
10	54.55	45.24	7.5		
11	100.2	44.45	55	X	
12A	81.5	40.94	99	X	
12B	49.75	41.16	19.5		
13	49	41.32	19.5		
14	52.6	43.83	22.5		
6101	~ 50	44.73	4		694.73
6102	~ 50	46.20	3.3		695.91
6103	~ 50	43.79	6		
6104	~ 50	43.07	6		694.48

PHILLIPS PEOPLES/IPC (95)

4-22-85

MONITORING WELL SAMPLING

8:15 ARRIVE TO BEGIN PURGING WELLS. PURGE 5 VOLS. FROM ALL WELLS: 1A, 1B, 7, 2A, 2B 3A, 3B, 8, 9, 10, 6101, 6102, 6103, 6104. USED ROBAIR SYSTEM FOR PURGING 1A, 2A, 3A, BAILED ALL OTHERS W. STAINLESS STEEL BAILERS. USED DEDICATED ROPES AND ROBAIR PVC & TUBING, PLUGS. DECONED BAILERS AND FOOTVALVES, USED GRADE D/E BREATHING AIR & POLYETHYLENE TUBING. PURGED A TOTAL OF 14 WELLS TODAY. ALSO TOOK H_2O LEVELS FOR ALL WELLS.

6:00 LEAVE SITE

THE TEAM MEMBERS:
PHILLIPS
GOODE
BAHNICK
JAQUETTE
BACH
VAUGHN

DIETZGEN NO. 386-3

PHILLIPS
GOODE
VAUGHN
BAHNICK
JARUGA
BACH

PEOPLES/IRC

(41)

4-23-85

8:00 ARRIVE @ SITE TO FINISH PURGING. PURGE 12A, 6, 11, 5A, 4A W. ROBAIR SYSTEM. BAIL 12B, 13, 5B, 14. REMOVE 5 VOLS. SAME EQUPT. AS YESTERDAY EXCEPT HAD TO GO TO ROCKFORD FIRE DEPT. TO REFILL MSA TANKS W. AIR TO FINISH ROBAIR PUMPING. REMOVED 13-15 VOLS. FROM 12A, 12B, 13, 14 - THEY HAD NOT BEEN DEVEL. YET DUE TO RECENT USE OF REVERT.

4:00 LEAVE SITE

WED.

4-24-85

8:00 ARRIVE TO SAMPLE 12 WELLS GET SET UP. BOY MORE PAPER TOWELS, BAGGIES ETC.

9:15 START SAMPLING. PHILLIPS/VAUGHN IS TEAM 1. GOODE/JAG IS TEAM 2. BAHNICK IS SAMPLER BACH STAYS TO HELP BAHNICK

DIETZGEN NO. 386-3

SAMPLING CONT. PEOPLES/IPC (42)

SAMPLE THE FOLLOWING WELLS AFTER REMOVING ~4 BAILERS OF H_2O: 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B, 7, 8, 9, 10. DUP @ 1B, SPIKE @ 7.

SAMPLE FOR ALL ORGANICS, INORGANICS AND CYANIDE.

3:00 TAKE SAMPLES TO FED. EXP. FOR SHIPPING

3:15 LEAVE

THURS.

4-25-85

8:00 ARRIVE TO CONTINUE SAMPLING. USING SAME PROCEDURE AS YESTERDAY SAMPLE WELLS 12A, 12B, 13, 14, 11, 6, 6101-104, 5A, 5B. ALSO DUPLICATE @ 6101. NO MATRIX SPIKE TAKEN. MIKE SLATTERY FROM GUNITE EXPRESSED SOME CONCERN ABOUT USING POND AREA FOR SAMPLING BASE.

DIETZGEN NO. 386-3

PHILLIPS PEOPLES / IPC.

4-25-85 CONT.

I APOLOGIZED & SAID WE WOULD BE LEAVING SHORTLY. NO HARM WAS DONE, HE WAS JUST GRIPEING

2:30 LEFT SITE AFTER CHECKIN LOCKS ON ALL WELLS.

SAMPLES TAKEN TO FED. EXP. FOR SHIPMENT.

~3:00 SAMPLES TURNED OVER TO FED. EXP.

SAMPLING TASK COMPLETE

THURS

5-2-85

9:30AM. PHILLIPS, MORALES, SOBOSKY ARRIVE TO TAKE ELEV. ~~AT~~ 11 MONITORING WELLS NOT SHOT IN BY T. McDERMOTT 2-19-85 AFTER TRING 1 SURVEY LOOP AND 3 CHECKS OF THE INST. IT IS DECIDED THAT INST. NEEDS CALIBRATION AND

DIETZGEN NO. 386-3

PHILLIPS
MORALES, SOCNOSKY

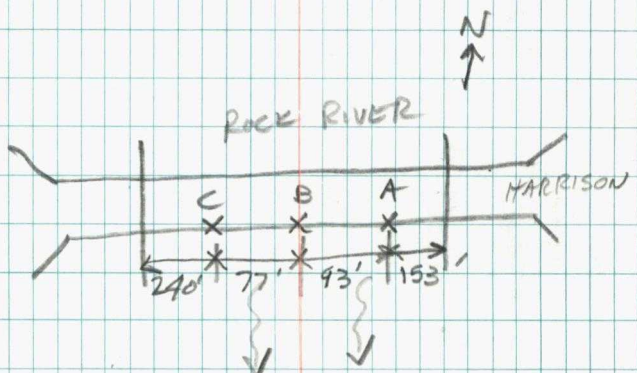
PZC LEVELS
5-2-85

MW-1A	41.63
1B	41.45
2A	49.97
2B	50.06
3A	31.70
3B	31.81
4A	37.66
4B	37.99
5A	43.01
5B	43.35
6	44.38
7	48.67
8	44.09
9	46.73
10	45.54
11	44.72
12A	41.20
12B	41.40
13	41.57
14	44.02
G-101	44.98
G-102	47.06
G-103	44.27
G-104	44.21

IS NOT FIT FOR USE TODAY
(CLOSED 0.17 OFF AFTER LOOP
OF 5 SHORT SHOTS).
WILL HAVE TO COME BACK
AGAIN TO DO THIS WORK.

1:00 TAKE H_2O LEVELS @
ALL 24 WELLS

3:00 DO DEPTH PROFILE OF
ROCK RIVER FROM HARRISON
ST. BRIDGE. OBTAINED
FOLLOWING INFO:

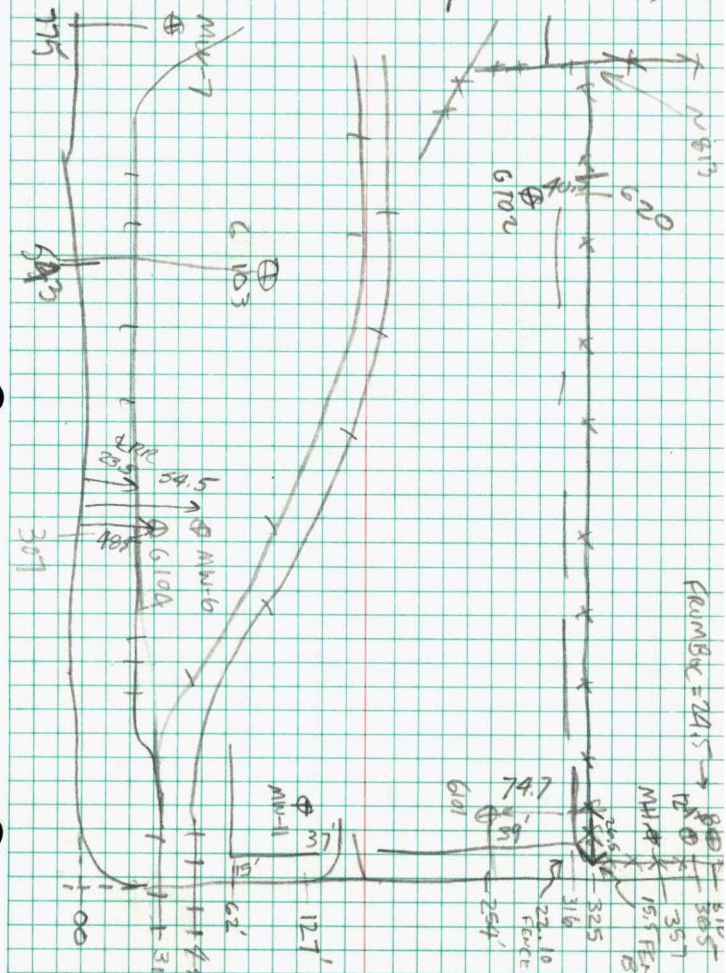


DEPTH @
A = 6.5'
B = 7.0'
C = 7.3'

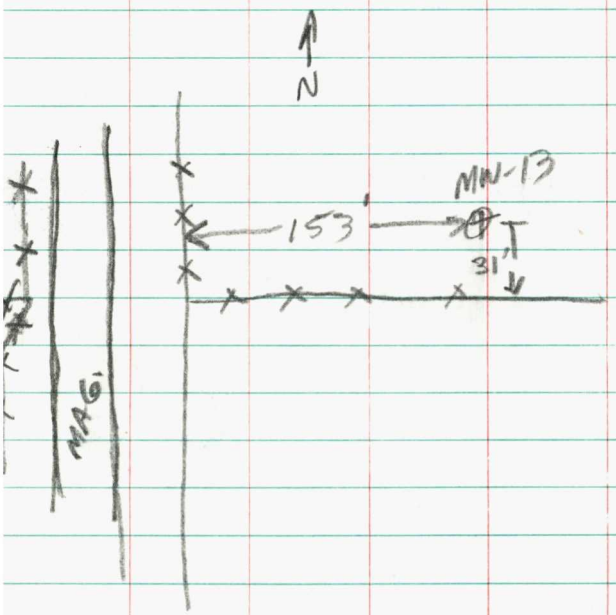
4:00 LEAVE SITE
COME BACK FOR
MW-ELEV., RIVER ELEV
POND ELEV.

DIETZGEN NO. 386-3

MAGNOLIA 37' BOC TO BOC
PEOPLES 37' BOC TO BOC
(MW-13 IS 350' ALONG N/S BASELINE)



DIETZGEN NO. 386-5


N
MW-13
153'
31'
MA6'

103 543 ~~BOC~~ B.L.

130 BOC

40.5 102 TO FEN

775 MW7 B.L

DIETZGEN NO. 386-6

Bibliography

DIETZGEN NO. 386-5

~~BM~~	~~BS~~	HI	FS	EL	
BM	4.09	729.29		725.20	MW-3B
TP1	0.37	712.62	12.04	717.25	
TP2	0.20	703.97	13.85	703.77	
TP3	3.70	699.04	8.63	695.34	
POND			5.88	693.16	SAHLSTROM
TP3	9.79	705.13	3.70	695.34	
TP2	14.35	718.12	1.36	703.77	
TP1	12.06	729.31	0.87	717.25	
BM			4.11	725.20	

DIETZGEN NO. 386-6

DIETZGEN NO. 386-6

DIETZGEN NO. 386 - 5

DIETZGEN NO. 385-5

DIETZGEN NO. 386 - 6

736.58

PHILLIPS
ALLANS

MON.
6-3-85

SURVEYING
PEOPLES/IPC

①

9:45 ARRIVE AT PEOPLES/IPC
TO SURVEY REMAINING
WELLS, RIVER, GUNITE POND.
TEACH ALLANS HOW TO SURVEY

11:00 BEGIN 1ST LOOP, MW-6, 6103,
MW-7. USE T.O.C. 6104
AS BENCHMARK. SPIKE IN
POWER POLE @ COR. QUAKER/
MAG. HAS BEEN REMOVED.
TODAY SURVEYED THOSE WELLS
ABOVE AND MW-11, 12A, 12B.
GUNITE POND, MW-13, 9, 10,
ROCK RIVER → SET POINT
ON HARRISON ST. BRIDGE
FROM WHICH MEASUREMENT
TO RIVER LEVEL CAN BE
MADE

DIETZGEN NO. 386-6

6-5-85

PEOPLES/IPC

741.58
3.11
738.47

B.M

POINT	+ BS	HI	- FS	ELEV	
G104	3.27	741.58		738.31	T.O.C.
G103	5.74	744.21 740.94	3.11	735.2	T.O.C 738.47
MW-7	1.87	744.15 740.88	1.93	739.01	T.O.C 742.28
			3.23	737.71	G.S. 740.52
T.P.1	2.43	740.89 739.44	3.89	737.01	PIN
MW6			2.23	737.21	TOC
MW6			4.36	735.08	GS
			2.41	737.03	
G103	3.24	738.44		735.20	TOC
PIN			3.43	735.01	
MW-6					TOC
	LOOP #1				GS
G104	3.41	741.72	3.41	738.31	TOC
G103	5.41	743.89	3.24	738.48	
MW-7			1.57	742.32	TOC
			3.02	740.87	GS
PIN	2.86	741.16	5.59	738.30	
G104			2.83	738.33	
MW-6			2.65	738.51	TOC
			4.77	736.39	GS

PHILLIPS
ALLANS

MON
6-2-85

SURVEYING (2)
IR/PEOPLES

LOOP#2 USED T.O.C. 6101
AS BENCH MARK = 739.46 AS
DETERMINED BY T. McDERMOTT (ETE

LOOP #3 USED TOP NUT OF
FIRE HYDRANT, S. SIDE
HARRISON BETWEEN MAG.
AND FALUND DR = 740.23.
DETERMINED BY McDERMOT - CALLED
TBM3

7:30 FINISHED WHAT WE COULD.
STILL HAVE MW-8, 14
TO SURVEY IN AND MEASURE
TO FENCES @ GUNITE
& MEASURE RIVER LEVEL
FROM BRIDGE

DIETZGEN NO. 386-5

Point	+ BS	HI	− FS	Elev.	
G101	2.06	741.52		739.46	T.O.C
MW11			2.47	739.05	T.O.C
MW11			5.04	736.48	G.S.
MW12A			5.71	735.81	T.O.C.
MW12A			7.97	733.55	G.S.
MW12B			7.97	733.55	GS
MW12B	2.47	738.45	5.54	735.98	TOC
PIN①	1.93	727.57	12.81	725.64	GOING DOWN TO POND
POND			6.33	721.24	
PIN①	12.51	738.15	1.93	725.64	
PIN②	4.89	739.00	4.04	734.11	E. side MW
MW13			2.97	736.03	T.O.C.
MW13			4.79	734.21	G.S.
PIN③	5.25	~~744.47~~ ~~746~~ 741.41	2.84	736.16 ~~742.92~~	
G-101			1.96	739.45	

PHILLIPS
ALLAWS

6-3-85 4 4 ③
IPC/PEOPLES

DIETZGEN NO. 386-6

POINT	BS	HI	FS	ELEV	
TBM3	0.76	740.39		740.23	FH S.SIDE HARRISON
BOC	4.58	739.42	5.55	734.84	TP 1
MW-19			2.28	737.14	TOC
			4.80	734.62	GS
BOC S.S. HARRISON ~40 E. OF MW	5.60	740.44	4.58	734.84	
TBM3	2.67	742.90	0.21	740.23	FH
SCRATCH BOC					
TP 2	3.82	741.54	5.18	737.72	
MW-9			4.24	737.30	TOC
			5.85	735.69	GS
TP 3	2.21	737.36	12.39	729.15	BOC HAR. & FAL.
TP 4	4.27	726.09	9.50	721.86	
TP 5	7.83	733.55	0.37	725.72	GUARD RAIL
RIVET FROM BRIDGE			1.00	732.55	
TP 5	0.96	726.68	7.83	725.72	
ROCK	7.85	729.44	5.09	721.59	BOC @ ROCK
TP 6	5.11	733.10	1.45	727.99	BOC NW SIDE HAR. & FAL
FH2	5.15	737.32	0.93	732.17	
TP 7	5.11	742.43	0.00	737.32	
TBM3			2.60	739.83	

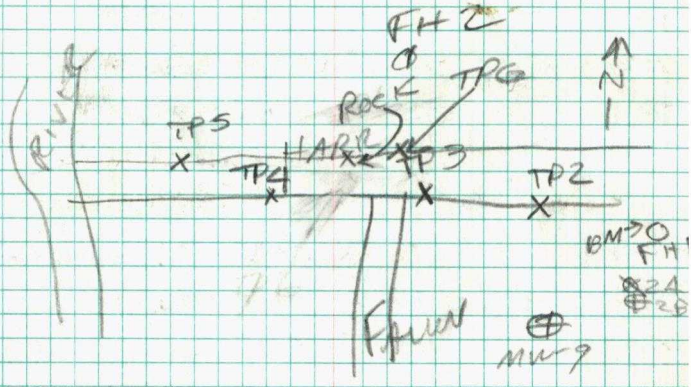
GOOD

CONT

PHILLIPS
ALLAN

6-3-85
PEOPLES/TPC

④



DIETZGEN NO. 386-6

PT	BS	HI	FS	ELEV.	
TBM 3	2.63	742.86		740.23	
TP 2	3.13	740.86	5.13	737.73	
MW-9			3.55	737.31	TOC
					65
FH 2	0.34	732.53	8.67	732.19	
TP ROCK	4.16	726.15	10.54	721.99	
TP GUARD	7.95	733.54	0.56	725.59	
RIVER BRIDGE			2.50	731.04	
TP GUARD	0.60	726.19	7.95	725.59	
TP ROCK	10.31	732.30	4.20	721.99	
FH 2	7.37	739.57	0.10	732.20	
TP 2	5.09	742.84	1.82	737.75	
TBM 3			2.60	740.24	

1.52 – walk to top of bridge.
.2 pipe (faucet)

17 guard rail spikings plus
1.25 ft.

MW-13 42.27
XD 8.27

MW-14 14.30
XD = 9.90

MW-8 - 45.11
XD = 10.38

MW-3B TD = 44
IWL = 32.37
XD

MW-3A TD 120
IWL = 32.27
XD = 9.48

6-6-85

MW- 11
IWL 45.67
XD = 21.40/21.36

DIETZGEN NO. 386-5

MW-14 9-20-85

POINT	BS	HI	FS	ELEV.	
FH N. SIDE PEOPLES	3.84	732.60		728.76	200' WEST RR. @ GUNITE
OLD CURB N.S. PEOPLES	8.90	737.77	3.73	728.87	100 N OF RR
WEST RAIL	4.92	738.39	4.30	733.47	150' N PEOPLES
EAST RAIL	6.91	742.00	3.30	739.09	SPUR TO GUNITE
MW-14			3.46	738.54	T/CASING
"			6.26	735.74	GROUND
EAST RAIL	3.71	738.80	6.91	735.09	SPUR TO GUNITE
WEST RAIL	4.54 3.42	739.01 ~~736.89~~	5.33	733.47	AS BEFORE
OLD CURB	4.11	732.98	9.14	728.87 ~~728.29~~	AS BEFORE
FH			4.22	728.76	
	MW-8				
G102	1.44	743.55		742.11	
TP1 GROUND	4.53	743.99	4.09	739.46	
TP2 GROUND	6.92	744.78	6.13	737.86	E FACE ROCK. COATING
TP3	6.33	749.93	1.18	743.60	NWC, G. POND
TP4 ROAD	5.33	747.07	8.19	741.74	
MW-8			8.29	738.78	T/CASING
MW-8			9.47	737.60	GR
TP4	7.99	749.73	5.33	741.74	
TP3	1.24	744.85	6.12	743.61	
TP5	4.93	743.93	5.85	739.00	
G102			1.82	742.11	TOP/CASING HIGHEST PT.

PHILLIPS THURS.
NOLAN 9-20-85

8:00 - DRIVE TO ROCKFORD TO SURVEY IN MW-14, 8 AT PEOPLES / IPC. ALSO HOUSE COUNT AROUND TIPTON SITE

→ 200' W R.R. TRACKS (W) GUNITE HYDRANT N. SIDE PEOPLES AV. SE CAP BOLT (BLK)

125.38 + 603.38 = 728.76

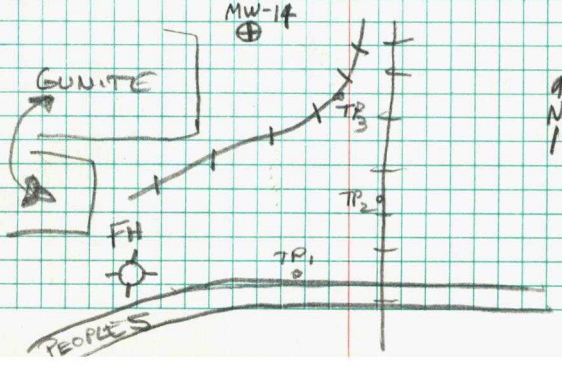
→ CROSS ON CURB EDGE OF SIDEWALK (ON LINE W. W. SIDE OF BRICK BUILDING) CHISLED SQUARE

124.14

CONVERSION 603.38 ← CHECK THIS

CONVERSION TO U.S.G.S.
HANSON ENGINEERING
965-5600 ROCKFORD

ASK PHIL BORROMAN
LOOK IN PEDESTRIAN BRIDGE BOOK



DIETZGEN NO. 386-6

PHILLIPS
NOLAN

[illegible]
9-2[illegible]-85

- NOTICE THAT GUNITE POND
LOOKS LIKE IT MAY HAVE BEEN
DREDGED. 5-6 S & G PILES IN
SW CORNER. ALSO WATER LEVEL
LOOKS V. HIGH

DIETZGEN NO. 386-6

ECKHARDT 11-7-85 0.4 ppm = background

	DTW	
MW-1B	41.30	
1A	41.54	
2A	50.20	
2B	50.27	
3A	32.37	
3B	32.49	
4A	38.62	
4B	39.00	
5A	44.20	
5B	44.51	
6	45.49	
7	49.39	
8	45.59	
9	46.76	
10	46.26	
11	46.01	1.0 ppm ABOVE BACK. IN WELL
12A	42.57	
12B	42.83	
13	42.82	
14	44.88	
G-101	46.33	
102	48.61	1.6 ppm ABOVE BACK. IN WELL
103	45.35	
104	43.41	BROKEN. MEASURED FROM GROUND SURFACE

DIETZGEN NO. 386-3

BURCHARDT 11-6-85

STA	BS	HI	FS	ELEV	REM
BM	0.37	732.65		732.28	TOC MW-1B
TP1A	0.43	721.01	12.07	720.58	STAKE 1
TP2	0.33	712.11	9.23	711.78	R.O.W. MARKER
TP3	1.90	700.32	13.69	698.42	STAKE 2
RIVER			9.64	690.68	
TP3	13.61	712.02	1.91	698.41	
TP2	9.57	721.34	0.25	711.77	
TP1	11.91	732.48	0.77	720.57	
BM			0.20	732.28	

11-7-85
RE-SHOOT RIVER

BM	0.21	711.99		711.78	R.O.W. MARKER
TP1B	1.87	700.23	13.63	698.36	STAKE
ROCK RIVER		[illegible]	9.38	690.85	
TP1B	13.75	712.11	1.87	698.36	
BM			0.33	711.78	

GUNITE POND

BM	2.66	738.47		735.81	T.O.C. MW-12A
TP1	2.16	726.87	13.76	724.71	
POND			10.89	715.98	
TP1	13.87	738.58	2.16	724.71	
BM			2.78	735.80	