PACKER TEST LOG

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18th FLOOR
NEW YORK, NEW YORK 10001
SCIENTISTS AND ENGINEERS

ENTERGY
IPEC

BORING NO./TEST NO. MW-31 / T-1
SHEET 1 OF 1
FILE NO.
PROJECT LOCATION BUCHANAN NY

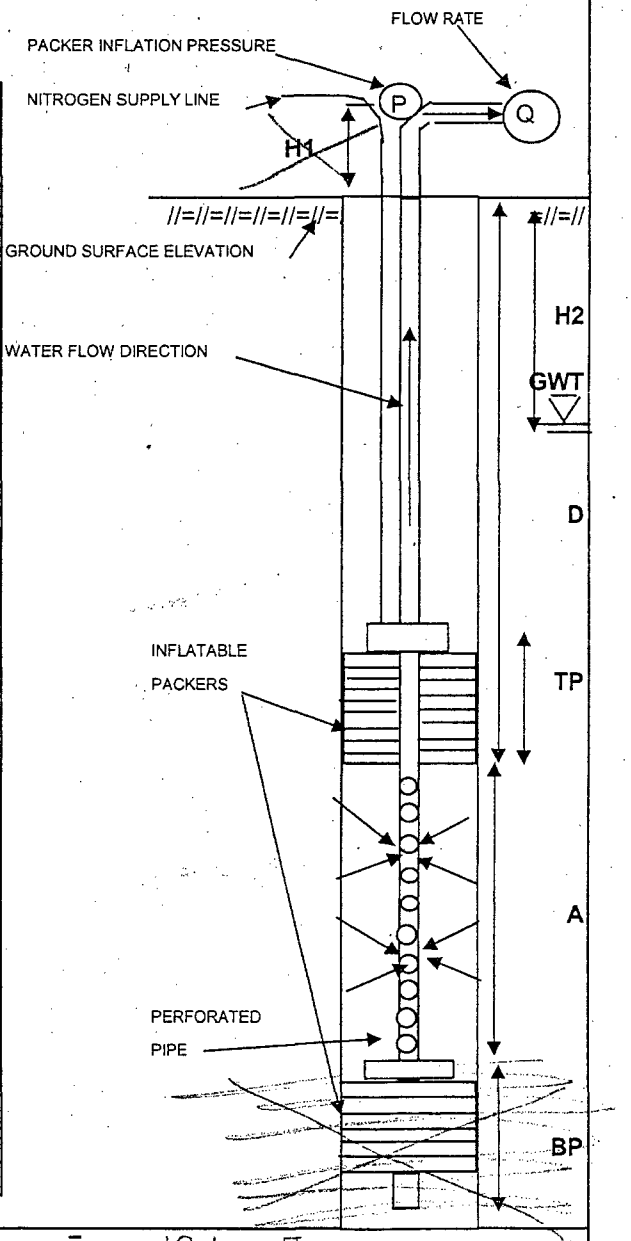
CONTRACTOR AQUIFER D. & T. INC
FOREMAN D. WOOD
GZA ENG. P. MAHON

BORING COORDINATES N E
GROUND SURFACE EL.(FT) DATUM
FINAL BORING DEPTH (FT) 90.0 DATE START/END 1/16/06

DIAMETER OF DRILLED BOREHOLE 4 INCH
GROUND WATER DEPTH (STATIC WATER LEVEL DEPTH) 32.8 ± FT

I.D. OF DRILLING RODS 2 INCH

TESTED INTERVAL FROM / TO (FT)	TIME (HR:MIN:SEC)	ELAPSED TIME (Δt MIN)	DEPTH TO WATER (FT)	DRAW DOWN (ΔH FT)	RECOVERY RATE (ΔH/Δt)
79.9-90.0	11:19	—	55.7	(START	PURGE)
(~10 GAL.)	11:34	0	18.7	(END PURGE)	
	11:44	10	38.9		
	11:54	20	48.3		
	12:04	30	52.7		
	12:14	40	54.0		
	12:24	50	54.4		
	12:34	60	54.4		
	12:44	70	54.5		
	12:54	80	54.6		
	13:02	88	54.6		



LEGEND:				
A - TOTAL LENGTH OF TEST SECTION (FT)	=	10.1	FT	
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY	=	2.5	FT	
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY	=	NA	FT	
D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE	=	79.9	FT	54.9 TO UPPER T.D.
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)	=	140	PSI	
H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE	=	87.9	FT	
H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE	=	32.8 ±	FT	
Q = VOL/TIME = (ΔH/Δt) * CONV FACTOR (0.653 GAL/FT)	=		0.65 GAL/MIN	

GZA ALL DEPTHS FROM T.O.C.

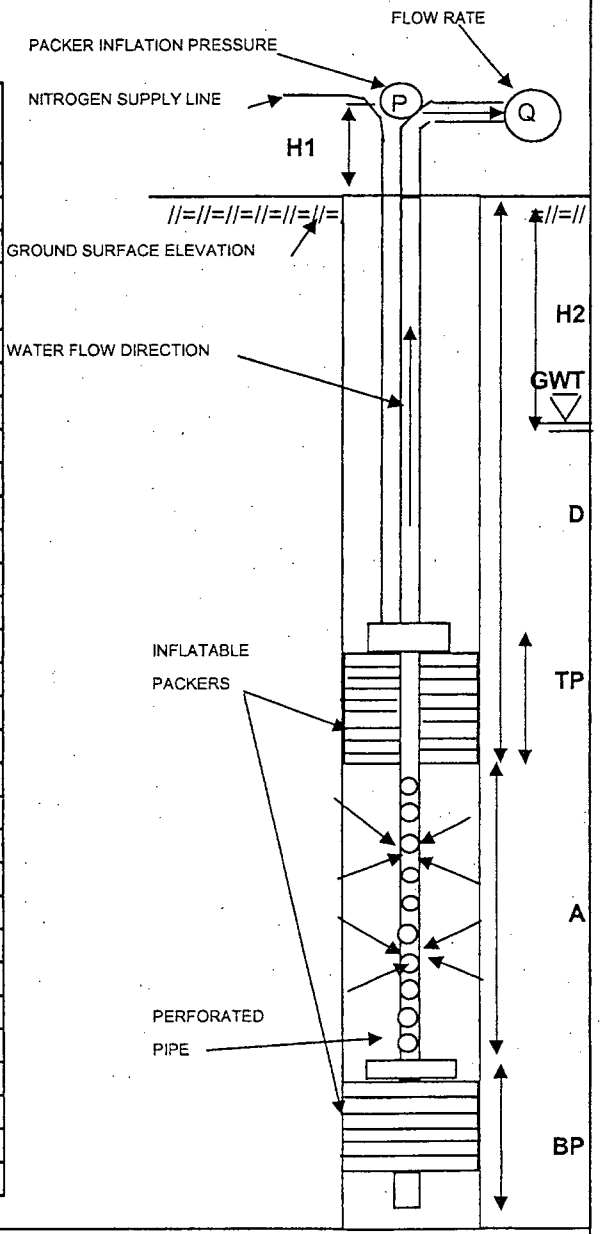
BORING NO./TEST NO. MW-31 / T-1

PACKER TEST LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	ENTERGY IPEC	BORING NO./TEST NO. MW-31 / T-2 SHEET 1 OF 1 FILE NO. PROJECT LOCATION BUCHANAN, NY

CONTRACTOR	AQUIFER DST, INC.	BORING COORDINATES	N E
FOREMAN	D. WOOD	GROUND SURFACE EL.(FT)	DATUM
GZA ENG.	P. MAHON	FINAL BORING DEPTH (FT)	90.0 DATE START/END 1/17/06
DIAMETER OF DRILLED BOREHOLE	4 INCH	GROUND WATER DEPTH (STATIC WATER LEVEL DEPTH)	32.8 ± FT
I.D. OF DRILLING RODS	2 INCH		

TESTED INTERVAL FROM / TO (FT)	TIME (HR:MIN:SEC)	ELAPSED TIME (Δt MIN)	DEPTH TO WATER (FT)	DRAW DOWN (ΔH FT)	RECOVERY RATE (ΔH/Δt)
73.4 - 82.0	14:42	—	48.2	(START PURGE)	
(~5.5 GAL.)	14:48	0	28.5	(END PURGE)	
	14:58	10	43.6		
	15:08	20	46.0		
	15:16	28	46.4		



LEGEND:				
A - TOTAL LENGTH OF TEST SECTION (FT)	=	8.6	FT	
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY	=	2.5	FT	69.4
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY	=	4.2	FT	TO UPPER TP.
D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE	=	73.4	FT	
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)	=	200	PSI	
H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE	=	81.2	FT	86.2
H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE	=	32.8±	FT	TO LOWER TP.
Q = VOL/TIME = (ΔH/Δt) * CONV FACTOR (0.653 GAL/FT)	=		0.65 GAL/MIN	

GZA ALL DEPTHS FROM T.O.C.

BORING NO./TEST NO. MW-31 / T-2

PACKER TEST LOG

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18th FLOOR
NEW YORK, NEW YORK 10001
SCIENTISTS AND ENGINEERS

ENTERGY
IPEC

BORING NO./TEST NO. MW-31/T-3
SHEET 1 OF 1
FILE NO.
PROJECT LOCATION BUCHANAN, NY

CONTRACTOR ADT
FOREMAN D. WOOD
GZA ENG. P. MAHON

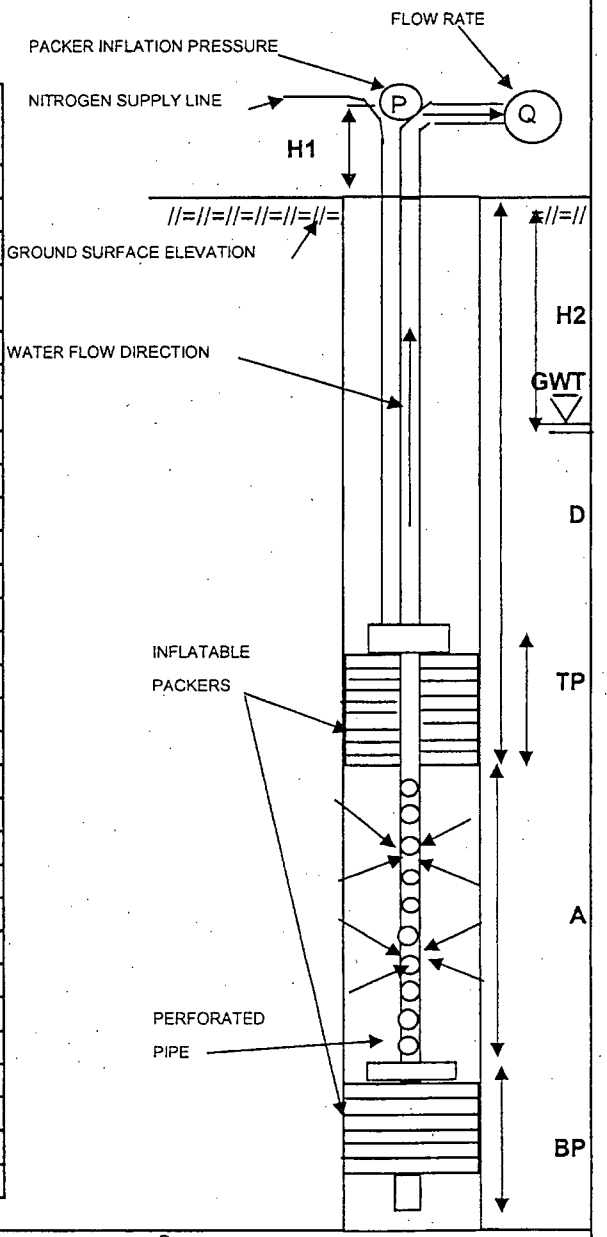
BORING COORDINATES N E
GROUND SURFACE EL.(FT) DATUM
FINAL BORING DEPTH (FT) 90.0 DATE START/END 1/18/06

DIAMETER OF DRILLED BOREHOLE 4 INCH
GROUND WATER DEPTH (STATIC WATER LEVEL DEPTH) 32.8± FT

I.D. OF DRILLING RODS 2 INCH

OF

TESTED INTERVAL FROM / TO (FT)	TIME (HR:MIN:SEC)	ELAPSED TIME (Δt MIN)	DEPTH TO WATER (FT)	DRAW DOWN (ΔH FT)	RECOVERY RATE (ΔH/Δt)
65.4-74.0	9:09	–	41.3	(START	PURGE)
(~7 GAL.)	9:19	0	14.1	(END PU	RGE)
	9:29	10	30.2		
	9:39	20	37.0		
	9:49	30	39.9		
	9:58	39	40.4		



LEGEND:				
A - TOTAL LENGTH OF TEST SECTION (FT)	=	8.6	FT	
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY	=	2.5	FT	
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY	=	4.2	FT	61.4 TO UPPER T.D.
D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE	=	65.4	FT	
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)	=	160	PSI	
H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE	=	74.0	FT	79.0 TO LOWER T.D.
H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE	=	32.8±	FT	
Q = VOL/TIME = (ΔH/Δt) * CONV FACTOR (0.653 GAL/FT)	=	0.65	GAL/MIN	

ALL DEPTHS FROM T.O.C.

GZA

BORING NO./TEST NO. MW-31/T-3

PACKER TEST LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	ENTERGY IPEC	BORING NO./TEST NO. MW-31/T-4 SHEET 1 OF 1 FILE NO. PROJECT LOCATION BUCHANAN NY

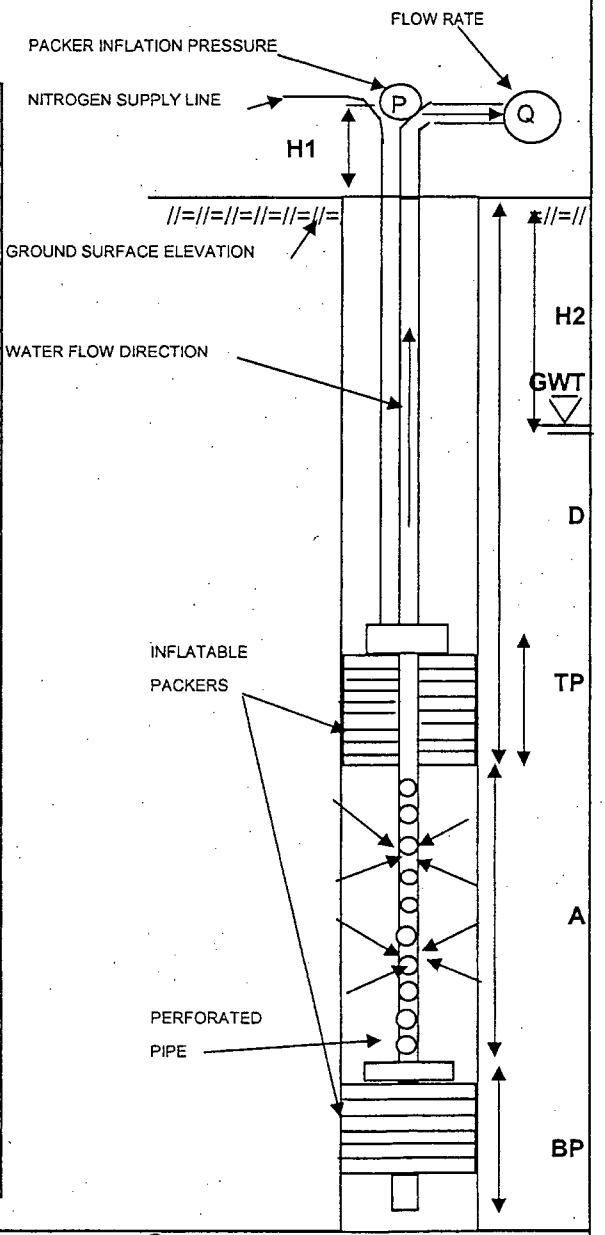
CONTRACTOR	ADT	BORING COORDINATES	N	E	
FOREMAN	D. WOOD	GROUND SURFACE EL.(FT)		DATUM	
GZA ENG.	P. MAHON	FINAL BORING DEPTH (FT)	90.0	DATE START/END	1/18/06

DIAMETER OF DRILLED BOREHOLE 4 INCH

GROUND WATER DEPTH (STATIC WATER LEVEL DEPTH) 32.8± FT

I.D. OF DRILLING RODS 2 INCH

TESTED INTERVAL FROM / TO (FT)	TIME (HR:MIN:SEC)	ELAPSED TIME (Δt MIN)	DEPTH TO WATER (FT)	DRAW DOWN (ΔH FT)	RECOVERY RATE (ΔH/Δt)
58.4-67.0	10:40	-	34.4	(START	PURGE)
(~8 CAL.)	10:52	-	4.9	(END PU	RGE)
	11:26	-	65.2	(RESTART	PURGE)*
	11:34	0	18.0	(END PU	RGE)
	11:44	10	29.0		
	11:52	18	32.4		



LEGEND:				
A - TOTAL LENGTH OF TEST SECTION (FT)	=	8.6	FT	
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY	=	2.5	FT	54.4 TO UPPER TP.
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY	=	4.2	FT	
D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE	=	58.4	FT	
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)	=	160	PSI	
H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE	=	67.0	FT	72.0 TO LOWER TP.
H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE	=	32.8±	FT	
Q = VOL/TIME = (ΔH/Δt) * CONV FACTOR (0.653 GAL/FT)	=		0.65 GAL/MIN	

* DUE TO OPERATOR ERROR
ALL DEPTHS FROM T.O.C.

GZA

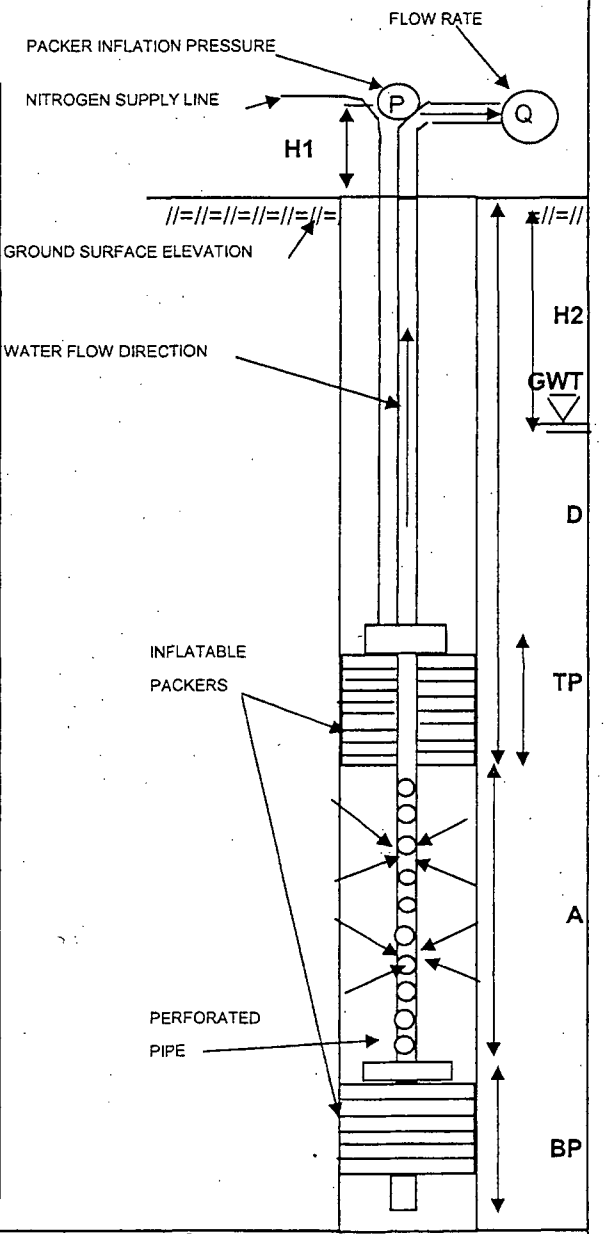
BORING NO./TEST NO. MW-31/T-4

PACKER TEST LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	ENTERGY IPEC	BORING NO./TEST NO. MW-31 / T-5 SHEET 1 OF 1 FILE NO. PROJECT LOCATION BUCHANAN NY

CONTRACTOR	ADT	BORING COORDINATES	N	E	
FOREMAN	D. WOOD	GROUND SURFACE EL.(FT)		DATUM	
GZA ENG.	P. MAHON	FINAL BORING DEPTH (FT)	90.0	DATE START/END	1/18/06
DIAMETER OF DRILLED BOREHOLE	4 INCH	GROUND WATER DEPTH (STATIC WATER LEVEL DEPTH)	32.8 ±	FT	
I.D. OF DRILLING RODS	2 INCH				

TESTED INTERVAL FROM / TO (FT)	TIME (HR:MIN:SEC)	ELAPSED TIME (Δt MIN)	DEPTH TO WATER (FT)	DRAW DOWN (ΔH FT)	RECOVERY RATE (ΔH/Δt)
50.9 - 59.5	12:08	-	26.5	(START	PURGE)
(~6 GAL)	12:20	0	19.3	(END PU	RGE)
	12:30	10	26.3		
	12:40	20	26.3		



LEGEND:				
A - TOTAL LENGTH OF TEST SECTION (FT)	=	8.6	FT	
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY	=	2.5	FT	46.9 TO LOWER TP.
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY	=	4.2	FT	
D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE	=	50.9	FT	
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)	=	160	PSI	
H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE	=	59.5	FT	64.5 TO LOWER TD.
H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE	=	32.8±	FT	
Q = VOL/TIME = (ΔH/Δt) * CONV FACTOR (0.653 GAL/FT)	=		0.65 GAL/MIN	

GZA ALL DEPTHS FROM T.O.C.

BORING NO./TEST NO. MW-31 / T-5

PACKER TEST LOG

GZA GEOENVIRONMENTAL OF NEW YORK
440 NINTH AVENUE, 18th FLOOR
NEW YORK, NEW YORK 10001
SCIENTISTS AND ENGINEERS

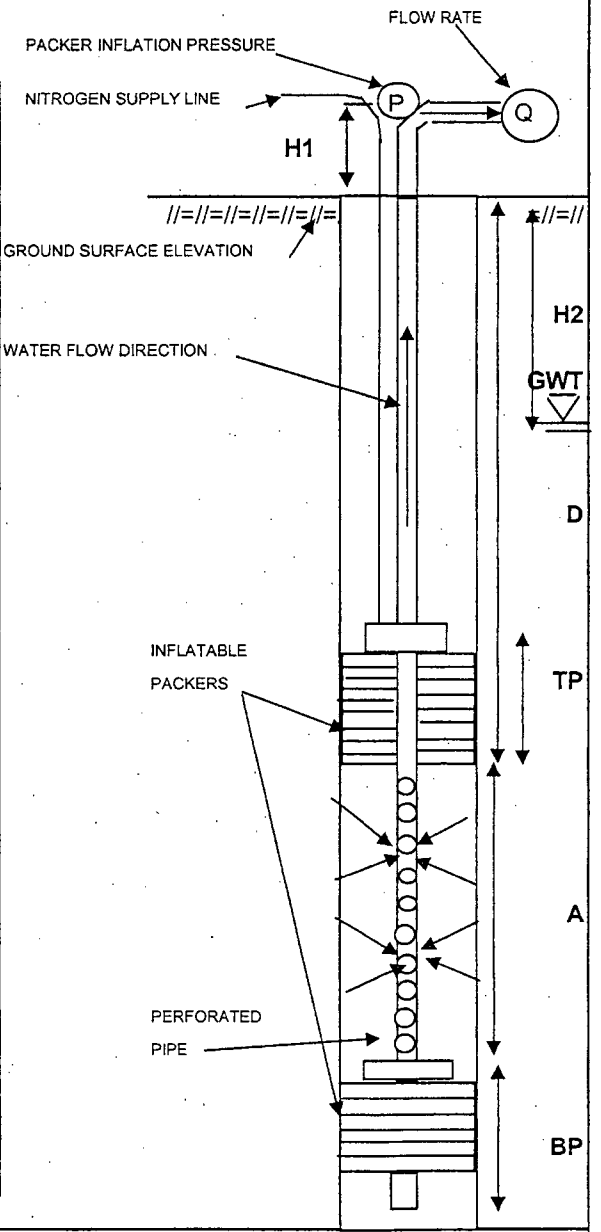
ENTERGY
IPEC

BORING NO./TEST NO. MW-31 / T-6
SHEET 1 OF 1
FILE NO.
PROJECT LOCATION BUCHANAN, NY

CONTRACTOR	ADT	BORING COORDINATES	N	E	
FOREMAN	D. WOOD	GROUND SURFACE EL.(FT)		DATUM	
GZA ENG.	P. MAHON	FINAL BORING DEPTH (FT)	90.0	DATE START/END	1/18/06

DIAMETER OF DRILLED BOREHOLE 4 INCH
GROUND WATER DEPTH (STATIC WATER LEVEL DEPTH) 32.8± FT
I.D. OF DRILLING RODS 2 INCH

TESTED INTERVAL FROM / TO (FT)	TIME (HR:MIN:SEC)	ELAPSED TIME (Δt MIN)	DEPTH OF WATER (FT)	DRAW DOWN (ΔH FT)	RECOVERY RATE (ΔH/Δt)
42.9 - 51.5	13:32	–	18.1	(START PURGE)	
(~10 CAL.)	13:48	–	17.4	(START CH TEST)	
	500 mL	/ 6 SEC.			
3X	5 CAL.	/ 3 MIN	50 SEC	X (CH TEST)	
	500 mL	/ 6 SEC.			
	13:52	–	17.4	(END CH TEST)	



LEGEND:				
A - TOTAL LENGTH OF TEST SECTION (FT)	=	8.6	FT	
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY	=	2.5	FT	38.9 TO UPPER TP
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY	=	4.2	FT	
D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE	=	42.9	FT	
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)	=	160	PSI	
H1 - DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE	=	51.5	FT	56.5 TO LOWER TP.
H2 - DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE	=	32.8±	FT	
Q = VOL/TIME = (ΔH/Δt) * CONV FACTOR (0.653 GAL/FT)	=		0.65 GAL/MIN	

GZA

BORING NO. /TEST NO. MW-31 / T-6

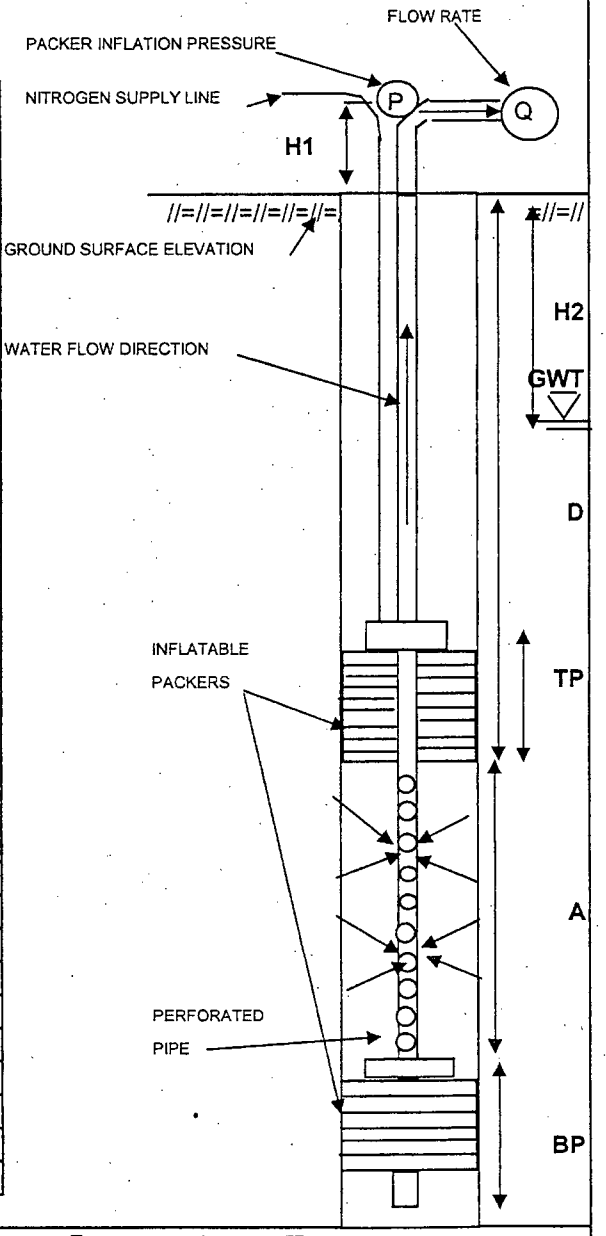
Depths from Top of Casing

PACKER TEST LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	ENTERGY IPEC	BORING NO./TEST NO. MW-31 / T-7 SHEET 1 OF 1 FILE NO. PROJECT LOCATION BUCHANAN, NY

CONTRACTOR	ADT	BORING COORDINATES	N	E	
FOREMAN	D. WOOD	GROUND SURFACE EL.(FT)		DATUM	
GZA ENG.	P. MAHON	FINAL BORING DEPTH (FT)	90.0	DATE START/END	1/18/06
DIAMETER OF DRILLED BOREHOLE	4 INCH	GROUND WATER DEPTH (STATIC WATER LEVEL DEPTH)	32.8 I	FT	
I.D. OF DRILLING RODS	2 INCH				

TESTED INTERVAL FROM / TO (FT)	TIME (HR:MIN:SEC)	ELAPSED TIME (Δt MIN)	DEPTH TO WATER (FT)	DRAW DOWN (ΔH FT)	RECOVERY RATE (ΔH/Δt)
34.5-43.1	14:19	–	10.5	(START PURGE)	
(~4.5 CAL)	14:29	0	0.9	(END PURGE)	
	14:39	10	4.3		
	14:49	20	6.1		
	14:59	30	9.1		
	15:09	40	9.0		



LEGEND:				
A - TOTAL LENGTH OF TEST SECTION (FT)	=	8.6	FT	
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY	=	2.5	FT	30.5
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY	=	4.2	FT	TO UPPER TD
D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE	=	34.5	FT	
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)	=	160	PSI	
H1 - DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE	=	43.1	FT	48.1
H2 - DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE	=	32.8 I	FT	TO LOWER TD
Q = VOL/TIME = (ΔH/Δt) * CONV FACTOR (0.653 GAL/FT)	=		0.65 GAL/MIN	

GZA

BORING NO./TEST NO. MW-31 / T-7

All Depths from Top of Casing