GZA GEOENVIR		NEW YORK		PACKER	TEST LOG		4W-31/T-1
440 NINTH AVENU		ILT TORK	EN	TERCY	ана на на К	BORING NO JTEST NO SHEET	1 OF 1
NEW YORK, NEW	/ YORK 10001			IPEC		FILE NO.	
SCIENTISTS AND	ENGINEERS	1				PROJECT LOCATION	BUCHANAN NY
CONTRACTOR	AQUIFER.	D. ST. 1.	<i>ic</i>	BORING COORD		<u>N</u> E	
FOREMAN	D. WOOD	· · · · · · · · · · · · · · · · · · ·		GROUND SURF		DATUM	
SZA ENG.	P. MAHON			FINAL BORING D	EPTH (FT)	90.0 DATE START/END	1/16/06
DIAMETER OF DRILLE	D BOREHOLE	4	INCH	GROUND WATER		<u>32.8 ±</u> ft	
I.D. C						PACKER INFLATION PRESSURE	FLOW RATE
TESTED	TIME	ELAPSED	OF DEPTH TO	DRAW	RECOVERY		× ×
INTERVAL		TIME	WATER	DOWN	RATE		
FROM / TO (FT)	(HR:MIN:SEC)	(Δt MIN)	(FT)	(ΔH FT)	(ΔH/Δt)	HI HI	
79.9-90.0	11:19	· · ·	<u>55</u> .7	(START	PUPGE)		
(~10 CAL.)	11:34	0	18.7	(END PUR	CE)	=  =  =  =  =	▲ ≢//=//
	11:44	10	38.9		·	GROUND SURFACE ELEVATION	
	11:54	20	48.3				
	12:04	30	52.7	· · · · · · · · · · · · · · · · · · ·			H2
	12:14	40	54.D			WATER FLOW DIRECTION	
	17:24	.50	54.4	·			GWT
	12:34	60	54.4	ļ		4 · · · · · · · · · · · · · · · · · · ·	
	12:44	70	54.5			•	
	12:54	80	54.6	· · · · ·			
	13:0Z	83	54.6	······			D
						J 4 88	
			· · · · · · · · · · · · · · · · · · ·				
						INFLATABLE	
			· · · · ·			PACKERS	
					·		
				1		in the second second	
		´		+			
			· · ·			PERFORATED	
						PIPE	→ 6 ↓
				· ·			
•						1. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	BP
					•		
					******		
	TAL LENGTH OF TES					= 10.1 FT	2
	DTAL LENGTH OF TO DTAL LENGTH OF BO					= 2.5 ft = NA ft	54.9
	TANCE BETWEEN G					= NA FT = 79.9 FT	TO UPPER TD,
PIP - P	ACKER INFLATION F	RESSURE (D PS	+ 50 PSI)			= 140 PSI	2 · · · ·
	STANCE BETWEEN					= 87.9 FT	
	STANCE BETWEEN ( M ( $M$ ) * C			ND WATER TABLE	÷ 5	= 32.8± FT	
u = V(	)L/TIME = (ΔΗ/Δt) * C			•		= 0.65 GAL/MIN	
GZA	ALL	- DEPTHS	FROM	T.O.C.		BORING NO. /TEST NO.	4W-31/T-1
							1
				· · ·		• •	

DAMETER OF DRILLED BOREHOLE     H     INCH     GROUND WATER DEPTH     32.8 ±     FT       LD. OF DRILLING RODS     Z     MCH     GROUND WATER DEPTH     32.8 ±     FT       LD. OF DRILLING RODS     Z     MCH     GROUND WATER DEPTH     32.8 ±     FT       TESTED     TIME     ELAPSED     DEPTH 36     DRAW     RECOVERY     RAKER INFLATION PRESSURE     FLOW       TESTED     TIME     ELAPSED     DEPTH 36     DRAW     RECOVERY     NTROCEN SUPPLY LINE     H       TSTERD     TIME     CALRET INFLATION PRESSURE     HI     IF/// IF//////// I/// I/// I/// I/// I/		<u></u>		· · · · · · · · · · · · · · · · · · ·	- DAOKED	TFOTIOO		·····
HAD NITH AVENUE, 18th FLOOR   EXTEC   SHEET   Intervent     SCENTISTS AND ENGINEERS   BORING COORDINATES   PROJECT LOCATION   EUC     SCENTISTS AND ENGINEERS   DORING COORDINATES   PROJECT LOCATION   EUC     SCENTISTS AND ENGINEERS   DORING COORDINATES   PROJECT LOCATION   EUC     SCENTISTS AND ENGINEERS   DORING COORDINATES   PROJECT LOCATION   EUC     SCENTISTS AND ENGINEERS   C. UP CODE   GROUND SURFACE ELLT)   PROJECT LOCATION   EUC     SZENS   C. MATCA AND ASSEMUT   FINAL BORNO COORDINATES   PROVENTION   TOTAL LENOT PRESSURE   PROVENTION     SZENS   TIME   DORING TO ANTER LEVEL DEPTH   TOTAL END PRESSURE   FLOV     TESTED   TIME   ELAPSED   DEPTH 36   DRAW   RECOVERY   NTROGEN SUPPLY LINE   HI     TESTEC   THE ROW DRECTON   TESTEC   CF   NTROGEN SUPPLY LINE   HI   HI     TS:16   Z.S.   HG. Y   VALUE   HI   HI <th></th> <th></th> <th></th> <th></th> <th>PACKER</th> <th>IEST LOG</th> <th>· · · · · · · · · · · · · · · · · · ·</th> <th>). MW-31/T</th>					PACKER	IEST LOG	· · · · · · · · · · · · · · · · · · ·	). MW-31/T
LEW YORK, NEW YORK 10001     TPEC     PLE NO       COUNTIEST AND ENGINEERS     EXTRACTOR     A.01/1/F/2     £2.4Tr., 1./2     BORINS COORDINATES     N     EXTRACTOR     BORINS COORDINATES     DATE STARTERD     \/1.177     MULTIC STARTERD     \/1.177     BORINS COORDINATES     N     BORINS COORDINATES     EXTRACTOR     BORINS COORDIN			NEW TORK		TERCY	·		
CIENTISTS AND ENGINEERS     PROJECT LOCATION     RUC - MA       ONTRACTOR     A.G.U.1F.F.2     D.A.T., LOC, D. U.G.O.P.     GROWNS SUFFACE ELET)     PROJECT LOCATION     RUL OF CONDUCTION       ZA ENG     C. MAHON     FINAL BORNS DEPTH (T)     D.C.C.C.     DATUM     TATUM       MATTER OF DRILLED BOREHOLE     H     INCH     GROUND WATER LEPETH (BTATIC WATER LEVEL DEPTH)     D.C.C.C.     DATUM     TATUM     TATUM       I.D. OF DRILLING RODS     Z.     NCH     GROUND WATER LEVEL DEPTH (BTATIC WATER LEVEL DEPTH)     GROUND SUFFACE ELEVATION     TATUM     TATUM <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td>			,					
DELVAN     D. UODD     ORDUND SURFACE ELLF1     DATUM       ZA ENG     (?. MAHCHN)     FINAL BORING DEPTH (FT)     90.0     DATE STARTEND     1/1.7/       AMETER OF DRILLED BOREHOLE     H     INCH     ORDUND WATER DEPTH (FT)     32.8 ±     FT       I.D. OF DRILLED BOREHOLE     H     INCH     ORDUND WATER DEPTH (FT)     32.8 ±     FT       TESTED     TIME     ELAPSED     DEPTH 20     DRAW     RECOVERY     INTROSEN SUPPLY LINE     FLOV       TESTED     TIME     ELAPSED     DEPTH 20     DRAW     RECOVERY     INTROSEN SUPPLY LINE     H							PROJECT LOCATIO	N BUCHANAN
ZA ENG     F.I. MAHLEN     FINAL BORING DEPTH (FT)     90.0     DATE STARTERNO     1/17/1       AMETER OF DRILLED BOREHOLE     H     INCH     GROUND WATER DEPTH (STATIC WATER LEVEL DEPTH)     32,8 ±     FT       I.D. OF DRILLING ROOS     Z     INCH     GROUND WATER LEVEL DEPTH)     32,8 ±     FT       I.D. OF DRILLING ROOS     Z     INCH     GROUND WATER LEVEL DEPTH)     TACKER INFLATION PRESSURE     FLOW       TESTED     TIME     ELAPSED     DEPTH 70     DRAW     RECOVERY     NTROBEN SUPPLY LINE     PLOY       TESTED     TIME     ELAPSED     DEPTH 70     DRAW     RECOVERY     NTROBEN SUPPLY LINE     PLOY       STERNAL     INFRMINSECO     (ALINN)     (FT)     (ANHA)     INTROBEN SUPPLY LINE     PLOY     H1     III/II/II/III/III/III/III/III/III/III/	ONTRACTOR	AQUIFER	D.ST. 1.	)C,	BORING COORD	INATES	N E	· · · · · · · · · · · · · · · · · · ·
AMETER OF ORLILED BOREHOLE   H   INCH   GROUND WATER LEVEL DEPTH   32.8 ±   FT     I.D. OF DRILLING ROOS   Z   INCH   INCH   GROUND WATER LEVEL DEPTH   32.8 ±   FT     TESTED   TAME   ELAPSED   DEPTH 26   DRAW   RECOVERY   NITROGEN SUPPLY LINE   PLOK     TESTED   TAME   ELAPSED   DEPTH 26   DRAW   RECOVERY   NITROGEN SUPPLY LINE   PLOK     TOTAL LENGTH OF THEST SECTION (FT)   TAME   VATER   DOWN   RATE   GROUND SURFACE ELEVATION     I.S. OR   Z.O.   H4.4   H   H   H   H   H   H     I.S. OR   Z.O.   H4.4   H	DREMAN	D. WOOD			GROUND SURF	CE EL.(FT)		
(STATIC WATER LEVEL DEPTH)       FLOW       ID. OF DRILLING ROOS	ZA ENG.	P. MAHON	7		FINAL BORING	EPTH (FT)	90-0 DATE START/EN	<u> 1/17/06</u>
OF     PACKER INFLATION PRESSURE       TESTED     TIME     ELAPSED     DEPTH 30     DRAW     RECOVERY       NTROGEN SUPPLY LINE     TIME     WATER     DWN     RATE       PROVITO (T)     (HRMINSEC)     CALE     (AHAD)     NTROGEN SUPPLY LINE     H1       723.4 - 82.0     H1:H2      H2.2     (STAET     PURCE)     GROUND SURFACE ELEVATION       15:08     2.0     H6.0     H2.6     GROUND SURFACE ELEVATION     IF=II=II=II=II=II=II=II=II=II=II=II=II=I	AMETER OF DRILL	ED BOREHOLE	Н	INCH	•			
OF     PACKER INFLATION PRESSURE       TESTED     TIME     ELAPSED     DEPTH 30     DRAW     RECOVERY       NTROGEN SUPPLY LINE     TIME     WATER     DWN     RATE       PROVITO (T)     (HRMINSEC)     CALE     (AHAD)     NTROGEN SUPPLY LINE     H1       723.4 - 82.0     H1:H2      H2.2     (STAET     PURCE)     GROUND SURFACE ELEVATION       15:08     2.0     H6.0     H2.6     GROUND SURFACE ELEVATION     IF=II=II=II=II=II=II=II=II=II=II=II=II=I	 I.D.	OF DRILLING RODS	Z	INCH				FLOW RATE
TESTED     TIME     ELAPSED     DOENTAR     DRAW     RATEWAL     NTROGEN SUPPLY LINE     PD       NTERVAL     (IAMIN)     (IAM					_		PACKER INFLATION PRESSURE	$\sim$
INTERVAL FROM/TO (FT)     INATER (HRMINSEC)     INATER (all MR)     OOWN (FT)     RATE (AHET)     OHION (AHET)     HI       133,4-82,0     141:42     -     152,02     141:42     -     141:42     -     141:42     -     141:42     -     -     141:42     -     -     141:42     -	······································	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	T		۔ ۲	
FROW TO (FT)   (AHAN)   (FT)   (AHAD)     73, H - 82, O   H4, H2		TIME						
73.41-82.0   141:42    15.2   (START   PJRGE)     141:42    15.2   (Exp Pt) SKE)   (Fille)     15:08   20   46.0    (Fille)     15:16   2.8   H4.4       16:17   2.8   H4.4       17:16   2.8   H4.4       18:17   2.9        19:17          19:17 <td></td> <td>(HR:MIN:SEC)</td> <td></td> <td>1</td> <td></td> <td></td> <td>Н</td> <td>1       [</td>		(HR:MIN:SEC)		1			Н	1       [
CS.S.CAL.)   14:46   0   28.5   (END PLOKEL)     14:56   10   43.6   GROUND SURFACE ELEVATION     15:08   20   46.0   H.4.4     15:16   28   44.4   H.4.4     15:16   28   44.4   H.4.4     10   15:16   10   H.4.4     10   10   10   10     11   10   10   10     11   11   10   10     11   10   10   10     11   11   10   10     11   11   10   10     11   11   11   10     11   11   11   10     11   11   11   11     11   11   11   11     11   11   11   11     11   11   11   11     11   11   11   11     11   11   11   11     11   11   11   11     11				1			<b>1</b> . ·	↓       `
14:56     10     43.6     GROUND SURFACE ELEVATION       15:08     2.0     46.0     Height and the second and the s			0.	28.5			//=//=//=//=//=	- <i>l</i> /=
IS:08     ZO     46.C       IS:16     Z8     44.4       WATER FLOW DIRECTION     WATER FLOW DIRECTION       IS:16     Z8     44.4       IS:16     Z8     44.2       IS:16     Z8     Z8       IS:16     Z8       IS:16     <	<u>~_</u> _					[	-	~
15:16 28 H4. H   WATER FLOW DIRECTION WATER FLOW DIRECTION   Image: State of the state of th							]	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TEST SECTION (FT)							]	
ESEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOTOP PACKER AND ASSEMBLY EFT CTAL LENGTH OF DOTOP PACKER AND ASSEMBLY TP - TOTAL LENGTH OF DOTOP PACKER AND ASSEMBLY TT - TOTAL LENGTH OF DOTOP PACKER AND ASSEMBLY TP - TOTAL			·					
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A E A - TOTAL A - TOT							]	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A - TOTAL ASSEMBLY EGEND: A - TOTAL A - TO								
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A E A - TOTAL A - TOT							]	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A E A - TOTAL A - TOT								
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A E A - TOTAL A - TOT								
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A - TOTAL ASSEMBLY EGEND: A - TOTAL A - TO								
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A - TOTAL ASSEMBLY EGEND: A - TOTAL A - TO							<b>]</b>	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A - TOTAL ASSEMBLY EGEND: A - TOTAL A - TO			•		·			
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EFT - TOTAL COTAL BACKER AND ASSEMBLY EFT - TOTAL BACK							INFLATABLE	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A							PACKERS	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A								
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A					1		] . \	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL A	-						] . \	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY E 4.2 FT								
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP AC								
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP AC							]	
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY E 4.2 FT							] \	
EGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY     BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY     =   4.2     FT							]	
EGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY     BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY     =   4.2     FT		·						
EGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY EGEND: A - TOTAL							PERFORATED	\  ā
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY = 4.2 FT 6		<u> </u>					PIPE	
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY = 4.2 FT 6								\
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY = 4.2 FT 6								*
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY = 4.2 FT 6								
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY = 4.2 FT 6	····							
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY = 4.2 FT								
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY = 4.2 FT 6							= 8.6 FT = 2.5 FT	
					Y		= 4.2 FT	69.9
							= 73.4 FT	
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI) = ZOO PSI						·		
			2					. 00.

	<u></u>	<u></u>		PACKER	TEST LOG		·····		
GZA GEOENVIR	ONMENTAL OF	NEW YORK					ORING NO./TEST NO.	MW-31/T-3	
440 NINTH AVEN	UE, 18th FLOOR		ENT	ERGY		SHEET ( OF			
NEW YORK, NEW	W YORK 10001		IF	EC		]	FILE NO.		
SCIENTISTS AND	DENGINEERS						PROJECT LOCATION	BUCHANAN NY	
CONTRACTOR	ADT			BORING COORD	INATES	N	E		
FOREMAN	REMAN D. WOOD			GROUND SURF	ACE EL.(FT)		DATUM		
GZA ENG.	P. MAMO	N		FINAL BORING	EPTH (FT)	90.0	DATE START/END	1/18/06	
DIAMETER OF DRILL	ED BOREHOLE	4	INCH	GROUND WATE	R DEPTH	32.8±	FT	·	
				(STATIC WATER	LEVEL DEPTH)				
I.D.	OF DRILLING RODS	2	INCH		• . • .			FLOW RATE	
			OF			PACKER INFLAT			
TESTED	TIME	ELAPSED	DEPTH JO	DRAW DOWN	RECOVÉRY	NITROGEN SUP	PLY LINE	A P A	
FROM / TO (FT)	(HR:MIN:SEC)	(Δt MIN)	(FT)	( AH FT)	(ΔH/Δt)	1	H1		/
65.4-74.0	9:09	·	41.3	(START	PURGE)			♥	
(~7GAL.)	9:19	0	. 14.1	(END PU			//=//=//=//=//=//	=	://=//
	9:29	10	30.2			GROUND SURFAC			
	9:39	. 20.	37.0	· · ·		1			
	9:49	30	39.9			1			H2
	9:58	39	40.4	1		WATER FLOW DIR	ECTION		
· · ·						1			wr
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						4	INFLATABLE		
	+	·····	·			-			TP
						4	PACKERS		
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	<u> </u>								
	· · · · · · · · · · · · · · · · · · ·					-	PERFORATED		
				· ·		- · · .	PIPE		
				1		4			
				<u> </u>		4			
·				<u> </u>		4			BP
	· ·	1	I	<u> </u>	<u>l</u>	1			
		•	···				6		
	OTAL LENGTH OF TE					=	8.6 FT 2.5 FT		
	TOTAL LENGTH OF B			Y			4.2 FT	61.4	
	STANCE BETWEEN						65.4 FT	TO UPPER T.C	D,
	PACKER INFLATION					. =	160 PSI		
1 · · · · · · · · · · · · · · · · · · ·	ISTANCE BETWEEN						74.0 FT	79.0 TO CONTR T.	5
	OISTANCE BETWEEN OL/TIME = (ΔΗ/Δt) * C			NU WATER TABLE			32.81 FT 0.65 GAL/		٣.
GZA	ALL	DEPTHS	TROM T	10,01			BORING NO. /TEST N	0. MW-31 / T-3	

ORE WAN     D. W Gog	074 050511/10				PACKER	TEST LOG		
VEW YORK (000)     Image: Construction			NEW YORK	FN-	TERGY	•		
APT     BORRA CORDINATES     N     E       DU-USOP     GRUND WATER LOD TO THE STATE     BATUM       DATE STATE AND			:			<del></del>	• • • • • • • • • • • • • • • • • • • •	
ORE WAN     D. W Gold     BROWD SURFACE L.PT     D. MAIN       224 ENd.     P. MANKON     FRALLBORND DEFINICE     MAIN     D. C. D. C. E. STATUSO     V 1.8 / D.G.       MARTER OF DRILLED BODENCLE     MAIN     GROUDD SURFACE BLEPTH     GROUDD SURFACE BLEPTH     GROUDD SURFACE BLEPTH     T       I.D. OF DRILLING ROOS     Z     MAIN     GROUDD SURFACE BLEPTH     GROUDD SURFACE BLEPTH     GROUDD SURFACE BLEPTH     FLOGER RELATION RESSURE     F	SCIENTISTS AND	ENGINEERS					PROJECT LOCATION	BUCIERNAN NY
228 ENG.   P. 4/A HQ N)   FANL BORNG DEPTA (PT)   92.0   DATE START/RHD   //1.3/05.     DIMMETER OF DRULED BOREHOLE   H   Inclustera DEPTA (STATE WATER LEVEL DEPTH)   32.0   C   FT     ILD. OF DRULED BOREHOLE   H   Inclustera DEPTA (STATE WATER LEVEL DEPTH)   32.0   C   FT     ILD. OF DRULED BOREHOLE   H   Inclustera   FT   FT   FT     ILD. OF DRULED BOREHOLE   H   Inclustera   FT   FT   FT     ILD. OF DRULED BOREHOLE   TAKE   FT   FT   FT   FT   FT     TESTED   TAKE   BLAPSED   DEMAN   RECOVENTY   FT   FT <td< td=""><td>CONTRACTOR</td><td>ADT</td><td>·····</td><td></td><td>BORING COORD</td><td>INATES</td><td>N E</td><td></td></td<>	CONTRACTOR	ADT	·····		BORING COORD	INATES	N E	
DAMETER OF DRULED BOREHOLE	FOREMAN				GROUND SURFA	CE EL.(FT)		
(STATIO WATER LEVEL DEPTHY     I.D. OF DRLLING ROOS	GZA ENG.	Р. МАН.	ON .		FINAL BORING D	EPTH (FT)	· · · · · · · · · · · · · · · · · · ·	1/18/06
I.D. OF DRILLING RODE		ED BOREHOLE	. 4	INCH			<u>32,8±</u> FT	
OF     ON     RECOVERY     Introdes supply Line     OP       INTERVAL     TIME     EAAPSED     DDAWI     RECOVERY     INTRODES SUPPLY LINE     INTRODES S	I.D. (	OF DRILLING RODS	2	INCH		•		FLOW RATE
INTERVAL     TIME     WATER     DOWN     RATE       SPR. 47–67.0     IO: 140     -     34. 4f     (START     PUACE)       III: 25     -     4.5.2     (EASTART     PUACE)     ROUND SURFACE ELEVATION       III: 34     O     19.0     (EASTART     PUACE)     ROUND SURFACE ELEVATION     H1       III: 324     O     19.0     (EASTART     PUACE)     ROUND SURFACE ELEVATION     III: 14//       III: 324     O     19.0     (EASTART     PUACE)     ROUND SURFACE ELEVATION     IIII: 4//       III: 52     18     32. 4f     IIII: 4//     IIII: 4//     IIII: 4//     IIIII: 4//     IIIII: 4//     IIIII: 4//     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				OF		•	PACKER INFLATION PRESSURE	
Inductor   Image: Ministry   Image: Ministry   Image: Ministry   Image: Ministry     SR_M - GZO   IO: 100   -   34. M   (STACT PURCE)     SR_M - GZO   IO: 100   -   34. M   (STACT PURCE)     III: 34   O   18.0   (EAMN)   (EAMN)   (EAMN)     III: 34   O   18.0   (EANN)   (EANN)   (EANN)     III: 34   O   18.0   (EANN)   (EANN)   (EANN)     III: 34   O   18.0   (EANN)   (EANN)   (EANN)     III: 34   O   18.0   (EANN)   (EANN)   (EANN)   (EANN)     III: 400   III: 52   18   32. M   (EANN)   (EANN)   (EANN)   (EANN)     III: 52   18   32. M   (EANN)   (EAN	TESTED	TIME	ELAPSED	DEPTH TO	DRAW	RECOVERY		
SR, 4-670   IO: 40   -   34. 4' (START PURCE)     II: 26   -   6.52   (EEXTAT PURCE)     II: 34   O   19.0   (EAD PURCE)     II: 41   10   20.0   EEVTON     II: 34   O   19.0   (EAD PURCE)     II: 34   O   19.0   (EAD PURCE)     II: 32   16   32.4'   Water PLOW DRECTON     II: 32   16   32.4'   Water PLOW DRECTON     II: 32   16   32.4'   Water PLOW DRECTON     II: 32   III: 32   IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				WATER				
COBCAL:     ID:52     -     41.9     (EAD PU 22E)     //=//////////////////////////////////							. н1	<u>↓</u>
III: 2.6     -     6.5:2     (E2.5 TA 5T     PURCO*       III: 2.4     O     IS.O     (E.J) P.V. R21     GROUND SURFACE ELEVATION       III: 144     I.O     29.O     WATER PLOW DIRECTION     H2       III: 152     18     32.4     WATER PLOW DIRECTION     D       III: 152     18     32.4     D     D       III: 152     18     32.4     TP       III: 152     18     32.4     TP       III: 164     III: 164     IIII: 164     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						<u> </u>		
III: 34     O     18.0     (EADP R-) Retained       III: 44     IC     29.0     III     III     III     III     III     IIII     IIII     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	(~BCAL.)				· · · · · · · · · · · · · · · · · · ·		1 7	<b>↑ *</b> //=//
III 14/4   10   Z9.0     III 22   18   32.4     WATER FLOW DRECTION   WATER FLOW DRECTION     III 22   18   32.4     III 22   18   19     III 22   18   10     III 22   18   10     III 22   10   10     III 22   18   10 </td <td>· · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>GROUND SURFACE ELEVATION</td> <td></td>	· · ·						GROUND SURFACE ELEVATION	
III-52     18     32.4       III-52     18     19       III-52     18     19       III-52     18     10       IIII-52     18     11       IIII-52     18     11       IIII-52 </td <td></td> <td></td> <td></td> <td></td> <td>LENDYU</td> <td>INCE)</td> <td></td> <td></td>					LENDYU	INCE)		
LEGEND: A · 10TAL LENGTH OF PEST SECTION (FT) T · TOTAL LENGTH OF TEST SECTION (FT) T · TOTAL LENGTH OF TEST SECTION (FT) T · TOTAL LENGTH OF DETS SECTION (FT) S · TOTAL LENGTH OF DETS SECTION (FT) T · TOTAL LENGTH OF DETS SECTION (FT) T · TOTAL LENGTH OF DETS SECTION (FT) S · TOTAL SECTION (FT)								
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) T - TOTAL LENGTH OF TEST SECTION (FT) T - TOTAL LENGTH OF TEST SECTION (FT) T - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY BP - TOTAL LENGTH OF FOOT MACKER AND ASSEMB		11:52	18	3619				
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF FORT MARKER AND ASSEMBLY BP - TOTAL LENGTH OF FORT MARKER AND ASSEMBLY D - DISTANCE BETWEEN REQUIND SURFACE AND TOP OF THE TEST ZONE HP - PACKER INFLATION PRESSURE (C) PSI + 50 PSI HP - PA						· · · · · · · · · · · · · · · · · · ·		
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF FORT MARKER AND ASSEMBLY BP - TOTAL LENGTH OF FORT MARKER AND ASSEMBLY D - DISTANCE BETWEEN REQUIND SURFACE AND TOP OF THE TEST ZONE HP - PACKER INFLATION PRESSURE (C) PSI + 50 PSI HP - PA						· · · · ·		│ │ │ │ ↓ ★ 🖂
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF FORT MARKER AND ASSEMBLY BP - TOTAL LENGTH OF FORT MARKER AND ASSEMBLY D - DISTANCE BETWEEN REQUIND SURFACE AND TOP OF THE TEST ZONE HP - PACKER INFLATION PRESSURE (C) PSI + 50 PSI HP - PA	· · · · · · · · · · · · · · · · · · ·					· ·		
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF FORT MARKER AND ASSEMBLY BP - TOTAL LENGTH OF FORT MARKER AND ASSEMBLY D - DISTANCE BETWEEN REQUIND SURFACE AND TOP OF THE TEST ZONE HP - PACKER INFLATION PRESSURE (C) PSI + 50 PSI HP - PA								
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY D - DISTANCE BETWEEN WATER PRESSURE (D PSI + 50 PSI) HI- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BE							· · · · · · · · · · · · · · · · · · ·	
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY D - DISTANCE BETWEEN WATER PRESSURE (D PSI + 50 PSI) HI- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BE								
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY D - DISTANCE BETWEEN WATER PRESSURE (D PSI + 50 PSI) HI- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BE								
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY D - DISTANCE BETWEEN WATER PRESSURE (D PSI + 50 PSI) HI- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BE						· · · · · · · · · · · · · · · · · · ·		
LEGENC: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOST SECTION (FT) TO UPPER TO UPPER TO, PP - PACKER INFLATION PRESSURE (AUG SAND SURFACE H2- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND WATER TABLE Q = VOLTIME = (AHBI) CONFERTOR (ESCALFT) TP D_E TTO OPERATOR (ESCALFT)								
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R							PACKERS	
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R								
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R								
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R								
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R								
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R								
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R				·····				
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R				· · · · · · · · · · · · · · · · · · ·				
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R								
LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TEST SECTION (FT)   =     BP   =     J.LEGEND:   A - TOTAL LENGTH OF TEST SECTION (FT)     TP - TOTAL LENGTH OF TOF PACKER AND ASSEMBLY   =     D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY   =     PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)   =     H1- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE   =     H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE   =     Q = VOLTIME = (AH/AI) · CONV FACTOR (0.653 GAL/FT)   =     X DUF. TO OPERATOR E280R   E280R	· · · ·	· · · · · · · · · · · · · · · · · · ·					PERFORATED	
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY D - DISTANCE BETWEEN GROUND SURFACE AND ASSEMBLY PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI) H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND WATER TABLE Q = VOLITIME = (AH/AI) * CONV FACTOR (0.653 GAL/FT) * DV F. TZ O PERATOR ERROR			· · ·			<b> </b>		→ð I I
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI) H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE Q = VOL/TIME = (AH/AI)* CONV FACTOR (0.653 GAL/FT) $\mathcal{A}$ DUE. TO OPERATOR ERROR		·				,		
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI) H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE Q = VOL/TIME = (AH/AI)* CONV FACTOR (0.653 GAL/FT) $\mathcal{A}$ DUE. TO OPERATOR ERROR								
LEGEND: A - TOTAL LENGTH OF TEST SECTION (FT) TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI) H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND SURFACE H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE Q = VOL/TIME = (AH/AI)* CONV FACTOR (0.653 GAL/FT) $\mathcal{A}$ DUE. TO OPERATOR ERROR							,	BP
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY= $2.5$ FT $54.4$ BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY= $4.2$ FT $50.4$ D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE= $58.4$ FT $TO$ UPPER TP.PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)= $160.$ PSIH1 - DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE= $67.0$ FT $72.0$ H2 - DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE= $32.8\pm$ FT $TO$ LOWER TP.Q = VOLITIME = (AH/AI)* CONV FACTOR (0.653 GAL/FT)= $0.65$ GAL/MIN $0.65$ GAL/MIN								
TP - TOTAL LENGTH OF TOP PACKER AND ASSEMBLY= $2.5$ FT $54.4$ BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY= $4.2$ FT $50.4$ D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE= $58.4$ FT $TO$ UPPER TP.PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)= $160.$ PSIH1 - DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE= $67.0$ FT $72.0$ H2 - DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE= $32.8\pm$ FT $TO$ LOWER TP.Q = VOLITIME = (AH/AI)* CONV FACTOR (0.653 GAL/FT)= $0.65$ GAL/MIN $0.65$ GAL/MIN					· · · · · · · · · · · · · · · · · · ·	•		
BP - TOTAL LENGTH OF BOTTOM BACKER AND ASSEMBLY= $4.2$ FT $51.7$ D - DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE= $58.4$ FT $TO$ UPPER TP.PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)= $160.$ PSIH1 - DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE= $67.0$ FT $72.0$ H2 - DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE= $32.8\pm$ FT $TO$ LOWER TP.Q = VOLITIME = (AH/AI)* CONV FACTOR (0.653 GAL/FT)= $0.65$ GAL/MIN $0.65$ GAL/MIN								
D-DISTANCE BETWEEN GROUND SURFACE AND TOP OF THE TEST ZONE PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI) H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE Q = VOL/TIME = ( $\Delta H/\Delta I$ ) · CONV FACTOR (0.653 GAL/FT) $\mathcal{A}$ DUE: TO OPERATOR ERROR					,			
PIP - PACKER INFLATION PRESSURE (D PSI + 50 PSI)= $160$ PSIH1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE= $67.0$ FT $72.0$ H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE= $32.8 \pm$ FT $70$ LOW FR TD,Q = VOL/TIME = (DH/DI)* CONV FACTOR (0.653 GAL/FT)= $0.65$ GAL/MIN $0.65$ GAL/MIN					· .			TO UPPER TO.
H1- DISTANCE BETWEEN WATER PRESSURE GAUGE AND GROUND SURFACE = 67.0 FT /2.0 H2- DISTANCE BETWEEN GROUND SURFACE AND GROUND WATER TABLE = 32.8± FT TO LOWER TD, Q = VOLITIME = (AH/AI) * CONV FACTOR (0.653 GAL/FT) = 0.65 GAL/MIN # DUE TO OPERATOR ERROR	PIP - P	ACKER INFLATION F	PRESSURE (D PS	1 + 50 PSI)			<b>Q Q 1</b>	
Q = VOLTIME = (DH/DI) * CONV FACTOR (0.653 GAL/FT) = 0.65 GAL/MIN * DUE TOOPERATOR EROR							= 67.0 FT	
* DUE TO OPERATOR ERFOR					ID WATER TABLE		32.0-	
	<b>u</b> - VC	* D	UE TO OPE	RATOR ER	ROR		- 0.65 GAL/MI	N
	GZA	ALC	- DEPTHS	FROM T	ioic.		BORING NO. /TEST NO.	MW-31/7-4
		· · · · · · · · · · · · · · · · · · ·				····· · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<u></u>

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			lin i e th	PACKER	TEST LOG				<u>.</u>
GZA GEOENVIR		NEW YORK					·	MW-31/T-5	
440 NINTH AVEN NEW YORK, NEV				TERG-1 PEC	· · ·		SHEET FILE NO.	OF I	
SCIENTISTS AND		· · · .	<u>_</u>	1		PROJE	CT LOCATION	BUCHANAN NY	
CONTRACTOR	ADT			BORING COORD	INATES	<u>N</u>	Ê		
FOREMAN	D. WOOD			GROUND SURF			DATUM		
GZA ENG.	P. MAHO.			FINAL BORING D	EPTH (FT)		E START/END	1/18/06	
DIAMETER OF DRILL	ED BOREHOLE	4	INCH	GROUND WATE		32,8±	FT	• •	
i.D.	OF DRILLING RODS	2	INCH					FLOW RATE	
			· · OF	=		PACKER INFLATION P	RESSURE		
TESTED	TIME	ELAPSED	DEPTHING	DRAW	RECOVERY	NITROGEN SUPPLY LI			2
INTERVAL FROM / TO (FT)	(HR:MIN:SEC)	TIME ( At MIN)	WATER (FT)	DOWN ( AH FT)	RATE (ΔΗ/Δt)		H1		シー
50.9-59.5	12:08	-	26.5	(START	PURGE)	4		<b>↓</b>	
(~6 CAL)	12:20	0	19.3	(END PU		//=/	//=//=//=//=/	/=	<b>*</b> //=//
	12:30	. 10	26.3			GROUND SURFACE ELEN	VATION /		
	12:40	. 20	26.3						
		· · · · · · · · · · · · · · · · · · ·				4			H2
· ·····						WATER FLOW DIRECTION	v —		CIART
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	1	L	1	<u> </u>	1	J			
LEGEND: A - TO	TAL LENGTH OF TES	ST SECTION (FT)				= 8,6	FT		
TP-T	OTAL LENGTH OF TO	OP PACKER AND	ASSEMBLY			= 2.5	FT	46.9	
	OTAL LENGTH OF B					= 4.2		TO LOVER T	P.
1	PACKER INFLATION			LILE I LOI LONE		= 160	PSI		
1	ISTANCE BETWEEN		-			= 59.5		64.5	
	ISTANCE BETWEEN OL/TIME = $(\Delta H/\Delta t) * C$			WATER TABLE		= 32.8 =	→ FT 0.65 GAL/	TO LOUER T.	D,
GZA				T. T. O.C.	-	BOPIN		0. MW-31 /T-5	

GZA GEOENVIR				PACKER	TEST LOG	······	-
A AD NUMPER ALL ALL	:		- 1				MW-31/T-6
440 NIN I H AVEN NEW YORK, NEV	UE, 18th FLOOR	•		TERCY		SHEET FILE NO.	I OF I
SCIENTISTS AND				PEC			BUCHANAN, NY
CONTRACTOR	ADT			BORING COORD		N E	
FOREMAN	D. Wood	, <u> </u>		GROUND SURF		DATUM	······································
GZA ENG.	P. MAHO			FINAL BORING	DEPTH (FT)	90,0 DATE START/END	1/18/06
DIAMETER OF DRILL	ED BOREHOLE	<u> </u>	INCH	GROUND WATE		<u>32.8±</u> FT	
I.D.	OF DRILLING RODS	2	INCH			PACKER INFLATION PRESSURE	FLOW RATE
	· · ·		<u> </u>	=		· · · · · · · · · · · · · · · · · · ·	
TESTED	TIME	ELAPSED	DEPTH	DRAW	RECOVERY		
INTERVAL FROM / TO (FT)	(HR:MIN:SEC)	TIME (Δt MIN)	WATER (FT)	DOWN (ΔH FT)	RATE (ΔΗ/Δt)	H1	T ///
42.9-51.5	13:32	( <u>Li</u> ( <u>iii</u> )	18.1	(START	PURCE)		. 🖌
(~ 10 C.AL.)	13:48		-17.4	(START C		//=//=//=//=/	/=
	SOOML	16 SEC			1/	GROUND SURFACE ELEVATION	
₹¥.	5 GAL.	13 Mint		× (CH	TEST)		
	SOOML	16 SEC.				]	
	13:52		17.4.	(END CH	TEST)		
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	<b> </b>			· · · · ·		INFLATABLE	
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		·				PERFORATED	
		·				PERFORATED PIPE	

an a			· · · · · · · · · · · · · · · · · · ·	PACKER	TESTIOG			
	IRONMENTAL OF	NEW YORK	et an earle earle earle The	FACKER	1231 200	BORING NO TEST NO. MW-31/T-7		
	NUE, 18th FLOOR		FALT	ERCY		SHEET 1 OF (		
	EW YORK 10001			EC.	· · · · · · · · · · · · · · · · · · ·	FILE NO.		
	ND ENGINEERS		<u> </u>	sec.		PROJECT LOCATION BUCLAWAD N'		
	·····							
CONTRACTOR	ADT			BORING COORD		<u>N</u> <u>E</u>		
FOREMAN	· · · · · · · · · · · · · · · · · · ·			GROUND SURF		DATUM		
GZA ENG.	P. MAHI	<u></u>		FINAL BORING	EPTH (FT)	90.0 DATE START/END 1/18/06		
DIAMETER OF DR	LLED BOREHOLE	4	INCH	GROUND WATE	R DEPTH	32.8 <sup>±</sup>		
	-			(STATIC WATER	LEVEL DEPTH)			
	D. OF DRILLING RODS	2	INCH			FLOW RATE		
	D. OF DRILLING RODS					PACKER INFLATION PRESSURE		
· · · ·			OF					
TESTED	TIME	ELAPSED	DEPTH	DRAW	RECOVERY			
INTERVAL		TIME	WATER	DOWN	RATE			
FROM / TO (FT	) (HR:MIN:SEC)	( $\Delta t$ MIN)	(FT)	(AH FT)	(ΔH/Δt)			
34.5-43.	14:19	-	10.5	(START	FURGE)	▼		
(~4.5CAL	) 14:29	0	0.9	CEND PU	RGE.)	//=//=//=//=//=		
	14:39	10	4.3	1		GROUND SURFACE ELEVATION		
	14:49	20	6.1		<u> </u>			
	14:59		9.1	<u> </u>	<u> </u>			
		30			<u> </u>			
	15:09	40	9,0	·				
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			· .					
	TOTAL LENGTH OF TE					= 8,6 FT		
	- TOTAL LENGTH OF T					= 2.5 FT . 30.5		
	- TOTAL LENGTH OF E					= 4.2 FT - mer TD		
1	DISTANCE BETWEEN			THE TEST ZONE				
	- PACKER INFLATION - DISTANCE BETWEEN			GROUND SUBE	ACE	= 160 PSI = 43,1 FT 48,1		
4	- DISTANCE BETWEEN					= 32.65 FT TO LOWER TD		
1	= VOL/TIME = (ΔΗ/Δt) *				 . '	= 0.65 GAL/MIN		
-	(an way)				•			
GZA						BORING NO TESTING MUD-21 / T-7		

All Depths from Top of Casing