Monitoring Well Abandonment Report Army National Guard Sites at Pelham Range

Fort McClellan, Calhoun County, Alabama

Prepared for:

U.S. Army Corps of Engineers, Mobile District 109 St. Joseph Street Mobile, Alabama 36602

Prepared by:

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Task Order CK05 Contract No. DACA21-96-D-0018 Shaw Project No. 774645

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List of Acronyms _____

ADEM Alabama Department of Environmental Management

CERCLA Comprehensive Environmental Response Compensation and Liability Act

EPA U.S. Environmental Protection Agency

OB/OD Open burn and open detonation

Shaw Environmental, Inc.

SI site investigation

UXO unexploded ordnance

1.0 Introduction

Shaw Environmental, Inc. (Shaw) completed well abandonment activities at Pelham Range at Fort McClellan in Anniston, Alabama. These activities were in support of environmental investigations conducted by Shaw under contract with the U.S. Army Corps of Engineers, Mobile District.

A total of 36 monitoring wells were abandoned at the following six sites on Pelham Range:

- Range 23A, Multipurpose Range, Parcel 109(7)
- Old Water Hole, Parcel 205(7)
- Anniston Army Depot, Former Shell Tapping Area, Parcel 208(7)
- Burial Mound at Rideout Field, Parcel 202Q-RD
- Range 4A, Fog Oil Storage Area, Parcel 123(6)
- Open Burn and Open Detonation (OB/OD) Unit.

The locations of the six sites are shown on Figure 1. All known monitoring wells at the six sites were abandoned. The well abandonments were completed in accordance with Alabama Department of Environmental Management (ADEM) Groundwater Branch guidelines (IT Corporation, 2000).

2.0 Site Descriptions_____

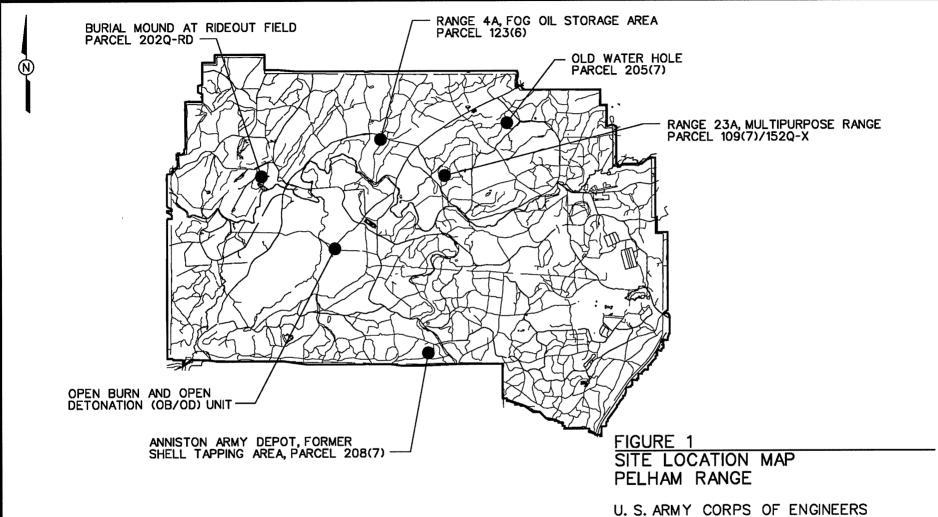
This section provides brief descriptions of Fort McClellan and the six Pelham Range sites where well abandonments were performed.

2.1 Facility Description

Fort McClellan is located in Calhoun County in the foothills of the Appalachian Mountains in northeast Alabama and is comprised of two tracts of land: Main Post and Pelham Range. The installation previously included the Choccolocco Corridor, a 4,488-acre tract of land that was leased from the State of Alabama from the 1940s until 1998. The city of Anniston is located to the south and west and the city of Weaver to the northwest of the Main Post installation. Pelham Range is approximately five miles due west of the Main Post and adjoins Anniston Army Depot along its southern boundary.

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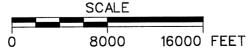
DWG. NO.: ...\jeff.dgn DR AFT, CHCK, BY: INITIATOR: J. TARR 12/8/2004 STARTING DATE: 11/08/04 DATE LAST REV .: PROJ. MGR.: J. YACOUB PROJ. NO.: 774645 5:04:37 PM ENGR. CHCK. BY: S. MORAN DRAWN BY: D. BOMAR DRAWN BY:



LEGEND

 SITE FOR MONITORING WELL ABANDONMENT







MOBILE DISTRICT

Shaw [™] Shaw Environmental, Inc.

2.2 Site Descriptions

The monitoring wells abandoned at Pelham Range during January 2005 are listed in Table 1. Monitoring well abandonments followed the procedures and guidelines established by ADEM, Groundwater Branch. Well abandonments were performed at the six sites listed below:

- Range 23A, Multipurpose Range, Parcel 109(7)/152Q-X, occupies approximately 41 acres in the north-central portion of Pelham Range. Shaw installed four permanent groundwater monitoring wells at Range 23A during site investigation (SI) activities in December 2001. Based on results of the SI, ADEM and the U.S. Environmental Protection Agency (EPA) approved "No Further Action" at the site with regard to Comprehensive Environmental Response Compensation and Liability Act (CERCLA)-related hazardous substances in 2004.
- The Old Water Hole, Parcel 205(7), is an approximately 9-acre area located within Training Area 5C in the northeast region of Pelham Range. Nine groundwater monitoring wells were installed as part of environmental investigations at the site. Five monitoring wells (OWH-205-MW01 through OWH-205-MW05) were installed by Science Applications International Corporation in 1995, and Shaw installed four monitoring wells (OWH-205-MW06 through OWH-205-MW09) in September and October 2002. Based on the results on Shaw's 2002 investigation, ADEM and EPA approved "No Further Action" at the site with regard to CERCLA-related hazardous substances in 2004.
- The Anniston Army Depot, Former Shell Tapping Area, Parcel 208(7), is located along the south-central border of Pelham Range. Shaw installed two groundwater monitoring wells (RNG-208-MW01 and RNG-208-MW02) during an SI in March 2000. Based on the results of the SI, ADEM and EPA approved "No Further Action" at the site with regard to CERCLA-related hazardous substances in May 2002.
- The Burial Mound, Parcel 202Q-RD, is located at the north end of Rideout Field in the western portion of Pelham Range. Shaw installed seven groundwater monitoring wells (RF-MW01 through RF-MW07) during a radiological groundwater investigation in June and July 2002. Based on the results of the investigation, the Alabama Department of Public Health and EPA approved "No Further Action" at the site in 2004 and 2002, respectively.
- Range 4A, Fog Oil Storage Area, Parcel 123(6), is located in the north-central portion of Pelham Range. Shaw installed five groundwater monitoring wells (PR-123-MW01 through PR-123-MW05) during an SI in May 2001. Based on the results of the SI, ADEM and EPA approved "No Further Action" at the site with regard to CERCLA-related hazardous substances in 2004 and 2002, respectively.

Table 1

Monitoring Well Abandonment Summary
Army National Guard Sites, Pelham Range
Fort McClellan, Calhoun County, Alabama

(Page 1 of 2)

Well Location	Well Type	Northing	Easting	Ground Elevation (ft.amsl)	Total Depth Measured (ft btoc)	Screen Length (ft)	Well Material	Date Grouted	Volume Grout Used (ft³)	Surface Completion Date
PR-123-MW01	Residuum	1178352.86	617718.12	628.51	77	20	2" ID Sch. 40 PVC	1/19/05	1.68	1/20/05
PR-123-MW02	Residuum	1178203.60	617643.71	628.25	82	20	2" ID Sch. 40 PVC	1/19/05	1.79	1/20/05
PR-123-MW03	Residuum	1178390.71	617717.74	627.54	76.4	20	2" ID Sch. 40 PVC	1/19/05	1.67	1/20/05
PR-123-MW04	Residuum	1178243.99	617711.32	625.10	77.3	20	2" ID Sch. 40 PVC	1/19/05	1.69	1/20/05
PR-123-MW05	Residuum	1178325.10	617621.08	630.29	75.3	20	2" ID Sch. 40 PVC	1/19/05	1.64	1/20/05
OWH-205-MW01	Residuum	1179697.03	628482.96	657.73	108.3	20	4" ID Sch. 80 PVC	1/17/05	9.4	1/25/05
OWH-205-MW02	Residuum	1179338.23	628254.20	660.11	105	10	4" ID Sch. 80 PVC	1/17/05	9.15	1/25/05
OWH-205-MW03	Residuum	1179204.35	628611.38	654.53	75.3	10	4" ID Sch. 80 PVC	1/17/05	6.57	1/25/05
OWH-205-MW04	Residuum	1179480.36	628485.85	654.56	100.3	10	4" ID Sch. 80 PVC	1/17/05	8.75	1/25/05
OWH-205-MW05	Residuum	1179566.59	628603.48	661.97	94.9	10	4" ID Sch. 80 PVC	1/17/05	8.28	1/25/05
OWH-205-MW06	Bedrock	1179698.92	628463.93	657.08	152	20	4" ID Sch. 80 PVC	1/17/05	13.26	1/25/05
OWH-205-MW07	Bedrock	1179552.55	628614.47	661.71	151.4	20	4" ID Sch. 80 PVC	1/17/05	13.21	1/25/05
OWH-205-MW08	Residuum	1179347.30	628235.89	660.92	143	10	4" ID Sch. 80 PVC	1/17/05	12.48	1/25/05
OWH-205-MW09	Residuum	1179260.51	628409.60	656.61	152.8	20	4" ID Sch. 80 PVC	1/17/05	13.33	1/25/05
RNG-109-MW01	Residuum	1175412.70	623288.21	641.65	40.5	15	2" ID Sch. 40 PVC	1/19/05	0.88	1/20/05
RNG-109-MW02	Residuum	1175265.70	622606.42	605.88	31.9	15	2" ID Sch. 40 PVC	1/19/05	0.70	1/20/05
RNG-109-MW03	Residuum	1174763.33	622673.60	598.16	33.5	15	2" ID Sch. 40 PVC	1/19/05	0.73	1/20/05
RNG-109-MW04	Residuum	1175053.46	622823.73	604.08	41.5	15	2" ID Sch. 40 PVC	1/19/05	0.91	1/20/05
RNG-208-MW01	Residuum	1159956.42	623016.98	732.05	93.1	20	2" ID Sch. 40 PVC	1/25/05	2.03	1/26/05
RNG-208-MW02	Residuum	1161076.82	622581.64	710.86	103.5	20	2" ID Sch. 40 PVC	1/25/05	2.26	1/26/05
RF-MW01	Residuum	1175307.40	607793.63	553.15	26.3	10	2" ID Sch. 40 PVC	1/18/05	0.57	1/19/05
RF-MW02	Residuum	1175169.35	607761.15	550.50	26.3	10	2" ID Sch. 40 PVC	1/18/05	0.57	1/19/05
RF-MW03	Residuum	1175190.89	607815.86	552.01	22.8	10	2" ID Sch. 40 PVC	1/18/05	0.50	1/19/05
RF-MW04	Residuum	1174360.65	607894.02	518.70	22.6	10	2" ID Sch. 40 PVC	1/18/05	0.49	1/19/05
RF-MW05	Bedrock	1175304.31	607769.39	552.75	94.2	25	4" ID Sch. 80 PVC	1/18/05	8.22	1/19/05
RF-MW06	Bedrock	1175161.46	607746.86	550.01	83.2	20	4" ID Sch. 80 PVC	1/18/05	7.26	1/19/05
RF-MW07	Bedrock	1175173.97	607824.70	549.79	86.9	25	4" ID Sch. 80 PVC	1/18/05	7.58	1/19/05
OB/OD-MW01	Residuum	1169465.11	613749.41	557.33	32.3	10	2" ID Sch. 40 PVC	1/25/05	0.70	1/26/05
OB/OD-MW02	Residuum	1169141.82	613993.49	562.28	37.4	10	2" ID Sch. 40 PVC	1/20/05	0.82	1/25/05
OB/OD-MW03	Residuum	1169225.49	613847.88	557.42	33.3	10	2" ID Sch. 40 PVC	1/19/05	0.73	1/25/05
OB/OD-MW04	Residuum	1169376.81	613329.89	559.77	33.2	10	2" ID Sch. 40 PVC	1/19/05	0.72	1/25/05
OB/OD-MW05	Residuum	1169143.98	613692.83	558.76	29.9	10	2" ID Sch. 40 PVC	1/19/05	0.65	1/25/05
OB/OD-MW06	Residuum	1169226.34	613364.39	560.71	32.5	10	2" ID Sch. 40 PVC	1/20/05	0.71	1/25/05
OB/OD-MW07	Residuum	1169502.47	613272.06	556.72	40.6	10	2" ID Sch. 40 PVC	1/20/05	0.89	1/25/05
OB/OD-MW08	Residuum	1169597.45	613072.32	549.63	30.2	10	2" ID Sch. 40 PVC	1/20/05	0.66	1/25/05
OB/OD-MW09	Residuum	1169722.08	613097.37	550.63	32.8	10	2" ID Sch. 40 PVC	1/20/05	0.72	1/25/05

Table 1

Monitoring Well Abandonment Summary Army National Guard Sites, Pelham Range Fort McClellan, Calhoun County, Alabama

(Page 2 of 2)

2" ID Sch. 40 PVC - 2-inch inside diameter, Schedule 40 polyvinyl chloride.

4" ID Sch. 80 PVC - 4-inch inside diameter, Schedule 80 polyvinyl chloride.

amsi - Above mean sea level.

bgs - Below ground surface.

btoc - Below top of casing.

ft - Feet.

ft3 - Cubic feet.

NA - Not available.

• The OB/OD Unit is located within the large impact area known as Unit No. 2 on Pelham Range. The OB/OD areas include Site 2A, Site 2B, and Site 2C. Nine monitoring wells were previously installed by another Army contractor.

3.0 Field Activities	
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This section describes the well abandonment field activities.

3.1 Unexploded Ordnance Avoidance

Shaw unexploded ordnance (UXO) personnel performed surface sweeps and brush clearing activities at the six sites on Pelham Range prior to well abandonment activities. All 36 wells were located, and no visible signs of damage were noted.

Shaw UXO personnel performed surface sweeps and provided oversight of field personnel to support field activities. The surface sweeps were conducted according to methodology outlined in the sampling and analysis plan to identify anomalies prior to subcontractor mobilization. A Shaw UXO technician monitored all well abandonment operations and coordinated with the range control office located on Main Post. The UXO technician ensured that proper safety guidelines and procedures were met throughout the duration of the field work.

3.2 Well Abandonment Activities

The 36 monitoring wells were abandoned in place according to ADEM guidelines. Well abandonments consisted of filling and isolating the screened interval and cementing the casing with a bentonite-cement grout. The grout was pumped through a tremie pipe inside the well. The goals of monitoring well abandonment were to:

- Prevent vertical migration of fluids within the monitoring well being abandoned
- Prevent intermixing of waters from different water-bearing zones
- Eliminate physical hazards (e.g., open boreholes)
- Preserve aquifer properties.

ADEM guidance states that in-place abandonment is complete when cross contamination cannot occur between various zones and contamination cannot enter from the surface.

A Shaw geologist supervised Miller Drilling Company personnel to ensure that all wells were the correct recorded depth (i.e., no foreign objects or obstructions present). Grout was mixed to appropriate ADEM standards, and sufficient decontaminated tremie pipe was placed to the

bottom of the well. The field geologist completed a well abandonment form for each of the wells. The well abandonment forms are included as Attachment 1.

In-Place Abandonment Procedures. In-place abandonment leaves the well intact and is used when the construction details are known. The ADEM procedures for in-place abandonments are as follows:

- 1) Upon initiation of abandonment activities, the well was checked for obstruction (e.g., dedicated purge pumps, sample pumps, monitoring equipment), and any obstructions were removed from the well.
- 2) Using a weighted tape, the total depth of the well was measured (Table 1).
- 3) The wells were determined to be void of granular material (e.g., sand pack, formation sediment).
- 4) A neat grout mixture was prepared consisting of American Society for Testing and Materials Type II portland cement, water, and bentonite. The organic-free bentonite was added at a ratio of 5 pounds of bentonite per 94-pound bag of cement to produce a grout of 5-percent bentonite by weight. The grout was mixed with 6.5 to 7 gallons of water to create a pumpable slurry. The amount of neat grout needed to abandon each well was determined by calculating the volume of each well and is shown in Table 1. The well volume was calculated using the following formula:

$$V = \underline{\pi D^2 h}_{\underline{A}}$$

Where:

V = Well volume in cubic feet D = Diameter of well in feet

h =Depth of well, from top of casing, in feet

 $\pi = 3.14$

- 5) Decontaminated tremie pipe with a side-discharge tip was assembled and extended to the bottom of the well.
- 6) Once thoroughly mixed, the grout was pumped through the tremie pipe to the bottom of the well. The grout was forced through the well screen, into the filter pack (sand pack), and up the inside of the well casing to seal holes and cracks that were present. The tremie pipe was slowly raised as the well filled with grout.
- 7) The grout was allowed to settle for 2 to 4 hours. A second visit ensured that the well was grouted to ground surface.

- 8) After the second visit, the grout was allowed to cure for a minimum of 24 hours to ensure that it did not settle below ground surface.
- 9) Once the grout hardened, all surface completion materials (i.e., well stickup, protective steel casing, well pad, and protective posts) were removed to approximately 2 feet below ground surface. The 2-foot annulus was then filled with concrete to ground surface and a 2-foot by 2-foot by 1-foot-thick concrete surface pad was placed over the abandoned well. The concrete pad was completed flush with the ground surface.

3.3 Equipment Cleaning

All equipment used in the abandonment process (i.e., tremie pipe, weighted tape, and tools) was thoroughly cleaned using steam and high-pressured hot water from a steam cleaner supplied by Miller Drilling Company. Potable water was obtained at the Shaw compound on Main Post and transported to Pelham Range in clean poly tanks.

3.4 Disposal of Spent Well Materials

Spent well materials (i.e., steel bumper posts, polyvinyl chloride well casings, concrete, steel manhole covers, well locks, etc) and any other solid waste generated during well abandonment activities were placed in a construction debris roll-off container. The roll-off container was then transported to the Tri-Corners Landfill for disposal.

4.0 Summary

Shaw abandoned 36 wells at six Pelham Range sites in accordance with ADEM guidelines. Well abandonment activities began on January 17, 2005 and were completed on January 26, 2005. The six sites where abandonment activities occurred were:

- Range 23A, Multipurpose Range, Parcel 109(7)
- Old Water Hole, Parcel 205(7)
- Anniston Army Depot, Former Shell Tapping Area, Parcel 208(7)
- Burial Mound at Rideout Field, Parcel 202Q-RD
- Range 4A, Fog Oil Storage Area, Parcel 123(6)
- OB/OD Unit.

All known groundwater monitoring wells at the six sites were abandoned in place. A concrete surface pad was constructed on top of each abandoned well. All spent well materials were removed and properly disposed.

U/U / 1.U/U/U/U/U/U/U/U/U/U/U/U/U/U/U/U/U/U/U/	5.0	References	
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IT Corporation, 2000, Final Installation-Wide Sampling and Analysis Plan, Fort McClellan, Calhoun County, Alabama.

ATTACHMENT 1 WELL ABANDONMENT FORMS

IT CORPORATION	Well Abandonment Form
AMember of The IT Group Project:	Well Number:
FTMC South Atlantic Division TERC	PR-123-mwo1
Client: USACE Mobile District	Well Coordinates:
Project No. 774645	N 1178/35-2.862 E 617718.118 Prepared By: Reference Point for Measurements:
774645 Date Completed: 1/20/05	Prepared By: Reference Point for Measurements:
1/20/05	Kyle Wilson GROWN Sulface
Well Type: (circle one) Residuum	
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT:
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed NO YES N/A
Well No. Well Location/ Parcel: Fos. 01/ Stoke Total Depth (feet): Drilled By:	
Total Depth (feet): Well Education Faces. Stoke	Outer Casing Removed
77' Toc Milla Daylin Co	Flush Mount Removed
77' Toc Miller Dr. 11th, Co. Date Completed: Ground Elevation: 628.51	/ Disposition of Well Materials:
May 2001 TOC Elevation: 628, 2 6	IOI E
4	PTHS
CONDUCTOR HOLE DIA TOP	SURFACE COMPLETION: Z × Z' × I'
BOTTOM	72
	NA Z
I.D. O.D. BOTTOM	DEPTH TO WELL CASING 2'
BOREHOLE DIA 8" BOTTOM	0
TYPE OF BACKFILL MATERIAL TOP	028
BOTTOM C	ABANDONMENT MATERIAL TYPE CEMENT GROWN
WELL CASING TOP	VOLUME USED 1.68 ft Manufacturer CON1/2 Type II
TYPE PVL Sch 4/0 ID. 2 O.D. BOTTOM	
TOP	
SEAL TYPE BEATON BOTTOM	50 22
FILTER PACKALL FILER SAND BOTTOM	50 77
TYPE AV C Sch 40 TOP	TOTAL DEPTH OF ABANDONMENT MATERIAL 77
I.D. 2 O.DBOTTOM	77
SUMP TYPE FADCAD TOP I.D. 2. O.D. BOTTOM	77

IT CORPORATION A.Member of The IT Group			Abandonment Form
Project:	-	Well Number:	
FTMC South At	tlantic Division TERC	PR-,	123-MWOZ
Client: USACE Mobile		well Coordinates:	
Project No. 774645 Start Date: 1/19/05		N 1178703.663	Reference Point for Measurements:
Start Date:	Date Completed:	Prepared By:	Reference Point for Measurements:
1/19/05	1/20/05	KylE WiBOL	GROUND SURVE
Well Type: (circle one)	Residuum	NOTES:	
Bedrock	Гетрогагу		
Other	•		
	E ABANDONMENT	AFTER ABA	ANDONMENT: NO YES N/A
WELL CONS	STRUCTION SUMMARY	Concrete Pac	
Well Nopk-123-Muoz	Well Location/ Parcel:	Protective Po	osts Removed
Total Depth (feet):	Drilled By:	l	
82' TOC	MillER DRIlly Co Ground Elevation: 628.2	Flush Mount	Removed
82' Toc Date Completed:	Ground Elevation: 628.2	Disposition o	f Well Materials:
May 2001	TOC Elevation: 628.6	<u> </u>	
/	DOWNE	OLE PTHS	
			SURFACE COMPLETION: Z X Z X I CONCRETE
	CONDUCTOR HOLE DIA BOTTOM		
	OUTER CASING TYPE NA TOP	720	
			DEPTH TO WELL CASING 2'
	BOREHOLE DIA 8" BOTTOM	0 1	
	BOTTOM	82	
	TYPE OF BACKFILL MATERIAL TOP GROUP BOTTOM	024	ABANDONMENT MATERIAL TYPE CEMENT GROY
	WELL CASING TOP G		VOLUME USED 1.79 ft3
	TYPE PVC Sch 40 BOTTOM	24	Manufacturer Porting of Type I
	I.D. <u>2</u> O.D		
	SEAL TYPE BENTON BOTTOM	57	
	FILTER PACK#/ F://=R Sq. TOP BOTTOM	57	
	TYPE AL SCREEN 40 TOP LD. Z. O.D. BOTTOM	62	TOTAL DEPTH OF ABANDONMENT MATERIAL
	SUMP	,-	
	ТҮРЕ Елер ТОР 1.D. 2 о.D. ВОТТОМ	82	

IT CORPORATION A Member of The IT Group		Well Aba	andonment Form
Project:	1	Number:	
FTMC South Atlantic Division	i i	PR-123-M	nwo3
Client: USACE Mobile District	Well	Coordinates:	
Project No. 774645	N	1178390.707	E 617717, 738
Start Date: Date Com ///9/05	oleted: Preparation Preparat	ared By: Re	ference Point for Measurements:
1/19/05	120/es Kyle	ES.	E 617717.738 Eference Point for Measurements: GRound Sukface
Well Type: (circle one) Residuum			
Bedrock Temporary	·		
Other			
BEFORE ABANDONI		AFTER ABANDO	ONMENT: NO YES N/A
WELL CONSTRUCTION S	UMMARY	Concrete Pad Rei	
Well No. Pk-/Z3-MW03 Well Loca Total Depth (feet): Drilled By	tion/Parcel:	Protective Posts	Removed
Total Depth (feet): Drilled By	Fog 0.1 StORAGE	Outer Casing Re	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
76.4 Toc William Date Completed: Ground E	Drilling Co.	Flush Mount Rea	moved
Į.	66137	Disposition of We	ll Materials:
May 7001 TOC Elev	ation: 627.35 DOWNHOLE		
, <u> </u>	DEPTHS		
CONDUCTOR HOLE	DIA NA TOP NA	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SURFACE COMPLETION:
	воттом ма		
OUTER CAS	TOP No		
	воттом		DEPTH TO WELL CASING Z
BOREHOLE DIA	₹" TOP ♥ BOTTOM 76.4		
TYPE OF PACKETY			
TYPE OF BACKFILL	BOTTOM 576.4		ABANDONMENT MATERIAL TYPE CEMENT GROUT
WELL CAS	ING TOP COL		VOLUME USED 1.107ft Manufacturer CRHAND Type II
TYPE PVC Se	10P 0, 19 BOTTOM 76.4		Manufacturer OKTIANO JYPE 11
ID. <u>2</u> O.D.	TOP 4.4.4		
SEAL TYPE BEA	DON: TE BOTTOM 51.4		•
FILTER PACK 4	FILER Sand BOTTOM 76.4		
SCREE TYPE VV. SC LD. 2. O.D			TOTAL DEPTH OF ABANDONMENT MATERIAL 76. 4
SUMP TYPE ENCAD I.D. Z O.D.	тор -76-У воттом 76. 4		

IT CORPORATION A Member of The IT Group	Well Abandonment Form
Project:	Well Number:
FTMC South Atlantic Division TERC	PR-123-mwo4 Well Coordinates:
Client: USACE Mobile District	Well Coordinates:
Project No. 774645	N 1178243.992 E 617711.315
Start Date: Date Completed:	N 1178243.992 E 617711. 315 Prepared By: Reference Point for Measurements:
1/19/05 1/20/05	Kylt Wilson Ground Surface
Well Type: (circle one) Residuum	NOTES:
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT: NO YES N/A
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed
Well No. P2-123-m way Well Location/Parcel: Fos. 0:1	Store Protective Posts Removed
Total Depth (feet): Drilled By:	
77.3 Tec Wille Doille	Co Flush Mount Removed
Date Completed: 77.3 Toc Miller Drilling Ground Elevation: 62	Disposition of Well Materials:
May 2001 TOC Elevation: 62	24.73
DC	OWNHOLE DEPTHS
FOX 10000	SURFACE COMPLETION:
CONDUCTOR HOLE DIA NA	TOP NA
OUTER CASING	
TYPE <u>N/4</u> 1.D	TTOP WA TTOM WA DEPTH TO WELL CASING 2'
BOREHOLE DIA 8"	TTOM 77.3
TYPE OF BACKFILL MATERIAL	TOP (27)
	ABANDONMENT MATERIAL TYPE CEMENT GROST
WELL CASING	VOLUME USED /. 65 ff ³
TYPE NELL CASING TYPE NELL CASING BO	Manufacturer Tolethan J Type II
1D. Z O.D	
SEAL TYPE DEA ton. IF BO	TOP 47.3 DITIOM S2.3
FILTER PACK #1 F.//FA Sad BO	TOP 52.3 DTTOM 77.3
TYPE PVC 5ch 40 LD Z O.D BO	TOP 57.3 OTTOM 77.3 TOTAL DEPTH OF ABANDONMENT 77.3 MATERIAL 77.3
SUMP TYPE £ dcap 1.D. Z O.D. BO	тор 77.3 оттом 77.3

IT CORPORATION A Member of The IT Group			bandonment Form
Project:		Well Number:	
FTMC South Atlar	ntic Division TERC	PR-123	-mu05
Client: USACE Mobile Di	strict	well Coordinates:	
Project No. 774645		N 1178325.097	Reference Point for Measurements: Chound Sunface
Start Date: 1/19/05	Date Completed:	Prepared By:	Reference Point for Measurements:
1/19/05	1/20/05	KILE WILSON	GROUND SURFACE
Well Type: (circle one) Resi	iduum	NOTES.	
Bedrock Tem	nporary		
Other	•		
BEFORE A	BANDONMENT	AFTER ABAI	NDONMENT: NO YES N/A
WELL CONSTR	RUCTION SUMMARY	Concrete Pad	
Well No.	Well Location/ Parcel:		
Total Depth (feet):	Drilled By:	Outer Casing	Removed
Date Completed:	Miller Dolla Co	Flush Mount	Removed
Date Completed:	Ground Elevation: 630 25	Disposition of	Well Materials:
May 2001	TOC Elevation: 630.06		
	DOWNH		
	DEF		SURFACE COMPLETION: Z'XZ'X' Conclete
	NDUCTOR HOLE DIA 7 777	<u>va</u>	The A. Southern
	OUTER CASING TOP	ر المحرار المح	
			DEPTH TO WELL CASING 2
BC	DREHOLE DIA 8 BOTTOM 7	<u>0</u> 5-3	
T	PE OF BACKFILL MATERIAL TOP C	23	ABANDONMENT MATERIAL
	BOTTOM 4	<u>८.३</u>	TYPE ENE + GROST VOLUME USED 1.64 FF 3 Manufacturer PORM/AND T.PE IT
	WELL CASING TOP 6	23	Manufacturer PORT/AND Type TT
	D. 2 O.D. BOTTOM S	<u></u>	
	TOP SEAL TYPE BEAL TYPE BOTTOM	6.3	
	LTER PACK# 1 F.11ER SA- BOTTOM	10.3 15.3	
T I	YPE PVC SL 40 TOP SD. Z" O.D. BOTTOM 7	<u>জ্</u> যু	TOTAL DEPTH OF ABANDONMENT MATERIAL 7.3
		75.3	
I TYY	PE EWCAP TOP Z O.D. BOTTOM	75.3	

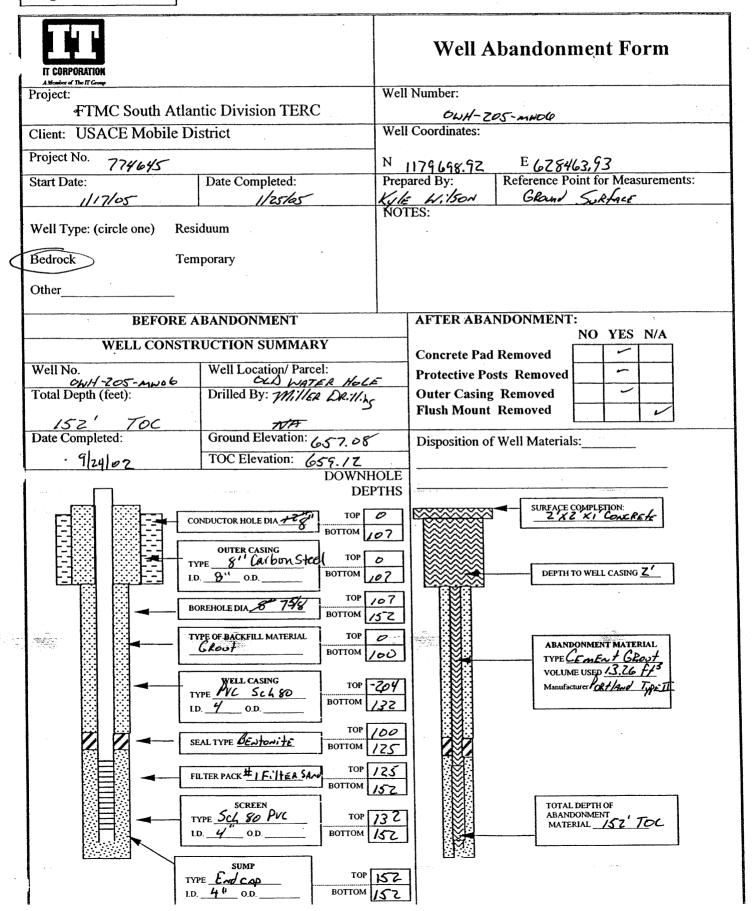
IT CORPORATION	Well Abandonment Form
AMember of The IT Group Project:	Well Number:
FTMC South Atlantic Division TERC	OWH-205-MUDI
Client: USACE Mobile District	Well Coordinates:
Project No. 7741 us-	N 476/67 63 E / 26/69 6/
Start Date: Date Completed:	N 1179697.03 E 628482.96 Prepared By: Reference Point for Measurements:
Project No. 774645 Start Date: Date Completed: 1/17/05 1/25/05	KylE Wilson GROUND SURFACE
Well Type: (circle one) Residuum	NOTES:
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT:
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed NO YES N/A
Well No. Well Location/ Parcel:	Concrete and Removed
Well No. **DWH-Zos-mwo!** Well Location/ Parcel: **OUS WATER HOL.** Drilled By:	Outer Casing Removed
	Flush Mount Removed
Date Completed: Ground Elevation: 657. 73	Disposition of Well Materials:
1995 TOC Elevation: 659. 73	,
DOWNH	OLE PTHS
	SURFACE COMPLETION 2 X2 X1 Concents
CONDUCTOR HOLE DIA / 2" TOP BOTTOM	
OUTER CASING TOP	
I.D. O.D. BOTTOM	→A DEPTH TO WELL CASING 2′
BOREHOLE DIA 12	
BOTTOM	<u>198</u>
TYPE OF BACKFILL MATERIAL TOP BOTTOM -	ABANDONMENT MATERIAL TYPE CEMENT GROUT
	VOLUME USED 5. 4#3
TYPE PVC Sch 80	Manufacturer Partland type II
SEAL TYPE DENTON BOTTOM	83
FILTER PACK BOTTOM	<u>63</u>
SCREEN	TOTAL DEPTH OF
TYPE AVC S. 1.80 TOP I.D. 4'' O.D. BOTTOM	ABANDONMENT MATERIAL 108
BOTTOM	108
SUMP TYPE E- Cap TOP	
I.D	104

IT CORPORATION A Member of The IT Group	Well Abandonment Form
Project:	Well Number:
FTMC South Atlantic Division TERC	OWH-205-MW02
Client: USACE Mobile District	Well Coordinates:
Project No. 774645	N 1179238 23 E 6752542
Start Date: Date Completed:	N 1179338.23 E 6282542 Prepared By: Reference Point for Measurements:
1/17/05 Date Completed. 1/17/05	Kylé Wilson GROUND SORFACE NOTES:
Well Type: (circle one) Residuum	NOTES:
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT: NO YES N/A
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed
Well No. Well Location/ Parcel: OWH-705-MUOZ WELL LOCATION / PARCEL: OLO WATER HO.	Protective Posts Removed
Total Depth (feet): Drilled By:	Outer Casing Removed
105 TOC KNA SAI	Flush Mount Removed
Date Completed: 1995 Ground Elevation: 660.1	
HZtolaskow TOC Elevation: 661.8	15
	NHOLE DEPTHS
TOI	SURFACE COMPLETION:
CONDUCTOR HOLE DIA / Z " BOTTOM	
OUTER CASING TO	
TYPE NA BOTTOM	DEPTH TO WELL CASING 2'
To To	1 6 11 13643
BOREHOLE DIA 12 BOTTON	105
TYPE OF BACKFILL MATERIAL TO GROUP	ARANDONMENT MATERIAL
	TYPE CEMENT GROUT, VOLUME USED 9.15 H
WELL CASING TO TYPE PVC Sc4 80	Manufacturer log than Tak II
1D. 4" O.D BOTTON	[GD] [GD]
TO TO	P 85
SEAL TYPE Action to BOTTON	
FILTER PACK #/ SAND BOTTO	
1112	TOTAL DEPTH OF ABANDONMENT MATERIAL 105
I.D. 4" O.D. BOTTO	
SUMP TYPE ÉND CAP	OP OP
I.D. 4° O.D. BOTTO	DM (105)

IT CORPORATION A Member of The IT Group	•		Well A	bandonment Form
Project:		Well	Number:	
FTMC South Atlan	tic Division TERC		OWH-	Z05-MW03
Client: USACE Mobile Di	strict	Well	Coordinates:	
Project No. 774645		N	179704 25	E 678611.38
Start Date: 1/17/05	Date Completed:	Prep	ared By:	E 628611.38 Reference Point for Measurements:
1/17/05	1/26/05	KYLE	Wilsow ES:	GROUND SURFACE
Well Type: (circle one) (Resi	duum			•
Bedrock Tem	porary			
Other				
BEFORE A	BANDONMENT		AFTER ABAI	NDONMENT: NO YES N/A
WELL CONSTR	UCTION SUMMARY		Concrete Pad	
Well No.	Well Location/ Parcel:	<u>سم ،</u>	Protective Pos	
Total Depth (feet):	Drilled By:		Outer Casing	
75.3 TOC	Ground Elevation: 654.53	-	Flush Mount	Removed
Date Completed:	Ground Elevation: 654.53		Disposition of	Well Materials:
1995 1995	TOC Elevation: 655. §Z			
		PTHS		
	ONDUCTOR HOLE DIA/ TOP	0		SURFACE COMPLETION:
	воттом	75.3		
π	OUTER CASING TOP TOP	NA		The second of th
	O.DBOTTOM	NA		DEPTH TO WELL CASING Z
BC	DREHOLE DIA 12" BOTTOM	253		
	PE OF BACKFILL MATERIAL TOP	73.2		
	GROST BOTTOM	55.3		ABANDONMENT MATERIAL TYPE CEMENT ORON
	WELL CASING TOP	1 26		Wolume USED 4.57ft Manufacturer bothon Appen
The state of the s	WELL CASING TOP O. J. O.D. BOTTOM	75.3		Manufacture (1977/1997)
	TOP	<u></u>		
SI → SI	EAL TYPE BENTONITE BOTTOM	60.3		,
 		60.3 65.3		
Ţ	SCREEN YPE VC ScL 90 TOP	د.ک <i>ی</i>		TOTAL DEPTH OF ABANDONMENT MATERIAL 3.3
	D. 4" O.D. BOTTOM	75.3		
TY	SUMP TOP PE <u>En Cap</u> BOTTOM	75.3		

IT CORPORATION A Member of The IT Group	Well Abandonment Form
Project:	Well Number:
FTMC South Atlantic Division TERC	OWH-205-MN04
Client: USACE Mobile District	Well Coordinates:
Project No. 774645	N 1179480 36 E 67848585
Start Date: Date Completed:	N 1179480.36 E 628485.85 Prepared By: Reference Point for Measurements:
1/17/05 1/25/05	KylE Wilson GROUND SURFREE
Well Type: (circle one) Residuum	NOTES.
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT: NO YES N/A
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed
Well No. OWH-ZOS MOY Well Location/ Parcel: OCO Water Hole Drilled By:	Duration Posts Demand
Total Depth (feet): Drilled By:	Outer Casing Removed
100.3 TOC NOT SAIC	Flush Mount Removed
Date Completed: Ground Elevation: 654.56	Disposition of Well Materials:
1995 TOC Elevation: 656. 20	o .
DOWN	HOLE EPTHS
	SURFACE COMPLETION: 2 X 2 X / CONCRETE
CONDUCTOR HOLE DIA /2" TOP BOTTOM	
OUTER CASING	<u> </u>
TYPE VA TOP LD. O.D. BOTTOM	DEPTH TO WELL CASING 2
BOREHOLE DIA 12" BOTTOM	
TYPE OF BACKFILL MATERIAL TOP	0
GROUT BOTTOM	80.3 TYPE CEMENT GROUT
WELL CASING TOP	7.64 VOLUME USED 8.75 ft 3 Manufacturer Partians Type II
TYPE PVC XX 80 BOTTOM	90.3
TOP	80.3
SEAL TYPE BENTON BOTTOM	
FILTER PACK #1 Sand BOTTOM	85-3 (ap. 3
SCREEN TYPE AVC SCL 80 TOP	TOTAL DEPTH OF ABANDONMENT
ID. 4' O.D. BOTTOM	ABANDONMENT MATERIAL 100,3
SUMP	
ТУРЕ ЕДОСАР ТОР 1.D. 4" о.D. ВОТТОМ	100.3

IT CORPORATION A Manhor of The IT Group				Abandonment Form
Project:		Well	Number:	
FTMC South Atla	ntic Division TERC		OWA	1-205-MNOS
Client: USACE Mobile D	Pistrict	Well	Coordinates:	
Project No. 774645		N /	179514 59	E 628603.48 Reference Point for Measurements: Glound Sulface
Start Date:	Date Completed:	Prep	ared By:	Reference Point for Measurements:
1/17/05	125/05	KY/E	Wilson	GROUND Sulfrice
Well Type: (circle one) Res	siduum	NOT	ES:	
Bedrock Ter	mporary			
Other				
BEFORE	ABANDONMENT		AFTER ABA	NDONMENT:
WELL CONST	RUCTION SUMMARY		Concrete Pac	NO YES N/A
Well No.	Well Location/ Parcel:			osts Removed
Total Depth (feet):	Drilled By:	HOLE	Outer Casing	· · · · · · · · · · · · · · · · · · ·
94.9' Toc	ALS SATE		Flush Mount	Removed
Date Completed:	Ground Elevation: 661.87	• .	Disposition of	f Well Materials:
1995 1995	TOC Elevation: 663.34		-	
	DOWN	HOLE EPTHS		
		EL I IIIO.	[\text{\tin}\text{\texi}\tinz}\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\texi}\tint{\text{\ti}\tint{\text{\text{\tin}\tint{\text{\ti}\ti}\text{\tex	SURFACE COMPLETION:
	CONDUCTOR HOLE DIA 12" BOTTOM	949		2. x 2. x 1
	OUTER CASING			
1 _ 1: : : : 1	TYPE	NA NA		DEPTH TO WELL CASING Z
	TOP			
	BOREHOLE DIA /Z' BOTTOM	101		
	TYPE OF BACKFILL MATERIAL TOP	0		ABANDONMENT MATERIAL
	GROWT BOTTOM	74.9		TYPE CEMENT GROUT
₩₩	WELL CASING TOP	7.37		VOLUME USED 8 28 Ft 3 Manufacturer ARHAND Type II
	TYPE 324 80 VVC BOTTOM			
	TOP	749		
	SEAL TYPE BEN ton: HE BOTTOM	144	237	
	FILTER PACK - 1 ADAK	79.9		
	ВОТТОМ	94.9		
	SCREEN TYPE PVC Sc4 80_ TOP	84.9		TOTAL DEPTH OF ABANDONMENT MATERIAL
	I.D. 4" O.D. BOTTOM			MATERIAL 17-1
	SUMP			
Т	YPE END GOD TO	94.9]	
I.	D. Y' O.D. BOTTON	1 94.9]	



IT CORPORATION A Member of The IT Group	•	Well Abandonment Form
Project:		Well Number:
FTMC South A	tlantic Division TERC	OWH-205-MW07
Client: USACE Mobile	District	Well Coordinates:
Project No. 774645		N 1179552 55 E 678614 47
Start Date:	Date Completed:	N 1179552.55 E 678614.47 Prepared By: Reference Point for Measurements:
1117/05	1/25/05	Kyle Wilson GROUND SURFACE
Well Type: (circle one)	Residuum	NOTES: 8" CARSON STEEL CASIL WAS installED US-AS ODEX DRILLING techniques.
Bedrock	Temporary	tech sweet
Other		TECANIZUES.
BEFOR	E ABANDONMENT	AFTER ABANDONMENT: NO YES N/A
WELL CON	STRUCTION SUMMARY	Concrete Pad Removed
Well No.	Well Location/ Parcel:	Protective Posts Removed
Total Depth (feet):	Drilled By: Miller Drilling Co.	Outer Casing Removed Flush Mount Removed
15%.4' Toc Date Completed:	Ground Elevation: ///2/	Diagonition of Well Materials:
9/12/02	TOC Elevation: 661.71	Disposition of Well Materials:
	DOWNH	OLE
	DEF	PTHS
	CONDUCTOR HOLE DIA 25" TOP	SURFACE COMPLETION: 2 X Z X I Conclete
	BOTTOM	5764 (Simple Simple Sim
	OUTER CASING TYPE CARbon Steel TOP BOTTOM	DEPTH TO WELL CASING Z
	I.D. 8" O.D. BOTTOM 1	67 DEPTH TO WALL CASING S
	BOREHOLE DIA 75/8 BOTTOM	<u>07</u> 51.4
	TYPE OF BACKFILL MATERIAL TOP	
	(30-1-	ABANDONMENT MATERIAL TYPE EMENT GROUT
	WELL CASING TOP C	VOLUME USED 13. 21 ft 3
	TYPE FUC Sch. 80 POTTOM	Manufacturer Post/And Type II
	I.D. 4" O.D	Keek
	SEAL TYPE BENTON TE BOTTOM	124
│	FILTER PACK #1 F./fer Sal BOTTOM	51.4
	SCREEN TYPE NC Sch, 80 I.D. 4" O.D. BOTTOM	TOTAL DEPTH OF ABANDONMENT MATERIAL 157.4
1. Jeff (94.)	SUMP TYPE <u>E_d/eqp</u> 1.D. <u>4</u> 0.D. BOTTOM	1 <u>57.4</u> 157.4

IT CORPORATION	·	Well	Abandonment Form
AManber of The IT Group Project:		Well Number:	
FTMC South Atlantic Divisio	n TERC	ONH-ZO	25-mwo8
Client: USACE Mobile District		Well Coordinates:	
Project No. 774645		N 1179347.3	E 678235.89
Start Date: Date Comp	leted:	Prepared By:	Reference Point for Measurements:
Start Date: Date Comp	15/25	Kylê Wilson NOTES:	Chound Suppose
Well Type: (circle one) Residuum		NOTES.	
Bedrock Temporary			
Other			
» BEFORE ABANDONM		AFTER AB	ANDONMENT: NO YES N/A
WELL CONSTRUCTION S		Concrete Pa	ad Removed
Well No. Well Locat	ion/Parcel: XI) WATER 40C	Protective I	Posts Removed
Total Depth (feet): Drilled By:		Outer Casi	ng Removed
143' Toc M Date Completed: Ground Ele	TillER Dille CE	Flush Moui	nt Removed
Date Completed: Ground Ele	Viller Diller Control Control	Disposition	of Well Materials:
9/24/02 TOC Eleva	ition: 663.10		
1	DOWNH DEP	1	
	TOP /	~ 1 × × × × × × × × × × × × × × × × × ×	SURFACE COMPLETION: 2'X2'X1' CONCLETE
CONDUCTOR HOLE I	BOTTOM //	7	
OUTER CASI	NG TOP		
TYPE CURSON 1D. \$" OD.	BOTTOM //	z 💥	DEPTH TO WELL CASING Z
BOREHOLE DIA	TOP /	771	
BOREHOLE DIA	BOTTOM	43	
TYPE OF BACKFILL	·		ABANDONMENT MATERIAL
	воттом //	2.5	VOLUME USED 12.48 ft
TYPE PVC Sch		2.78	Manufacturer Pokt/and Type II
ID. 4" O.D.	воттом	33	
	TOP V	ब्रती	
SEAL TYPE BEAT	BOTTOM /		
FILTER PACK	TOP / BOTTOM /	<u>25</u>	
SCREEN TYPE DVC SC	4 80 TOP	123 ES	TOTAL DEPTH OF ABANDONMENT MATERIAL
1D. #/ O.D.	воттом	143	MATERIAL 170
SUMP TYPE <u>Endcap</u> I.D. <u>4</u> O.D.		143 143	en samen

IT CORPORATION A Member of The IT Group			Well A	Abandonment Form
Project:		Well	Number:	
FTMC South A	tlantic Division TERC		OVH-ZO	05-MW09
Client: USACE Mobile	e District	Well	Coordinates:	
Project No. 774645		N	1797605	1 E 628409.6
Start Date: 1/17/05	Date Completed:	Prep	ared By:	Reference Point for Measurements:
1/17/05	1/25/05	NO.	<i>LI, Iso-</i> TES:	GROUND SURFACE
Well Type: (circle one)	Residuum			
Bedrock	Temporary			
Other				
BEFOR	RE ABANDONMENT		AFTER ABA	NDONMENT: NO YES N/A
WELL CON	STRUCTION SUMMARY		Concrete Pac	
Well No.	Well Location/ Parcel:	1 2/1-	1	osts Removed
Well No. CWH-205-mwo Total Depth (feet):	Well Location/ Parcel: GLO Water Drilled By:	a moce	Outer Casing	g Removed
157 8' The			Flush Mount	Removed
Date Completed:	Ground Elevation: 656.	(a)	Disposition o	f Well Materials:
10/18/02	TOC Elevation: 657.	61		
		WNHOLE DEPTHS		· · · · · · · · · · · · · · · · · · ·
_88 883-		OP 7	 	SURFACE COMPLETION:
	CONDUCTOR HOLE DIA 511 BOTTO			
	OUTER CASING	OP 0		
	TYPE CARSON STEE BOTTO			DEPTH TO WELL CASING 2
	75/6/	TOP 1/4		
	BOREHOLE DIA 73/8 BOTTO	N 152.8		
	C a land to the la	гор О		ABANDONMENT MATERIAL
	BOTTO	OM 106		VOLUME USED 13.33 FF
	TYPE VELL CASING	TOP -1.00		Manufacturer Portigne Type II
	I.D. 4" O.D. BOTT	ом 132.8		
		TOP 106		
	SEAL TYPE BENTONITE BOTT	OM 123		
	FILTER PACK # F, HER SON	TOP / Z3 TOM /SZ.8		
	SCREEN TYPE PVC Scl 80	TOP 137.8		TOTAL DEPTH OF ABANDONMENT MATERIAL 152.8 To
	I.D. 4 ^A O.D. BOTT	MOM 62.8		
1000000	1 1106 ~~~	4.52\ AOT		e pare
1	I.D. 41 O.D. BOT	TOM USZ.8	ון	

IT CORPORATION A Member of The IT Group	Well Abandonment Form
Project: ETMC South Atlantic Division TERC	Well Number:
FTMC South Atlantic Division TERC	RNG-109-mNO1 Well Coordinates:
Client: USACE Mobile District	well Coordinates:
Project No. 774645	N 1175417.7 E 673788.21
Start Date: Date Completed: 1/19/05 1/20/65	Prepared By: Reference Point for Measurements:
1/19/05 1/20/05	N 11754/2.7 E 623288.21 Prepared By: Reference Point for Measurements: KALE Wilson GROUN SURFACE NOTES:
Well Type: (circle one) Residuum	
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT: NO YES N/A
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed
Well No. Well Location/Parcel: **Range 7.3 After Total Depth (feet): Well Location/Parcel: **Range 7.3 After Total Depth (feet): Drilled By:	Protective Posts Removed
Total Depth (feet): Drilled By:	Outer Casing Removed
405 TOC MillED Della Co	Flush Mount Removed
Date Completed: Willer Dr. III. Co. Ground Elevation: 641.65	Disposition of Well Materials:
LECENSER LOO! 100 Elevation: 643.60	
DOWNI- DE	
	SURFACE COMPLETION: Z X Z X / Con C Ref-
CONDUCTOR HOLE DIA NO BOTTOM	NA CALKETT
OUTER CASING TOP	
TYPE	MA DEPTH TO WELL CASING 2'
TOP	
BOREHOLE DIA 4" BOTTOM	9 65
TYPE OF BACKFILL MATERIAL TOP	O ABANDONMENT MATERIAL
OB GROW BOTTOM	15.5 TYPE CEMENT GROUT
WELL CASING TOP	VOLUME USED 2.58 ft Manufacturer Pool from Type II
TYPE PVC ScL 470 BOTTOM	25.5
торГ	<i>प</i> ट्रज
SEAL TYPE BENTOM BOTTOM	20.5
FILTER PACK #1 Filter Sand BOTTOM	205 405
TYPE PYC Sch 40 TOP	25.5 TOTAL DEPTH OF ABANDONMENT MATERIAL 40.5
I.D. Z' O.D. BOTTOM	40.5 MATERIAL 70.5
SUMP	
ТҮРЕ <u>Ёлдсор</u> ТОР 1.D. <u>2</u> О.D. ВОТТОМ	405

IT CORPORATION			Well A	bandonment Form
AMember of The IT Group Project:		Well	Number:	
	ntic Division TERC	1		
		Well	RNG -109 - Coordinates:	MUDL
Client: USACE Mobile D	ISUICL	1		
Project No. 774645		N #	17-1175265	7 E 622606.42
Start Date:	Date Completed:	Prepa	red By:	Reference Point for Measurements:
Start Date: 1/19/05	1/20/05	KILE	Wilson	Reference Point for Measurements: Chound Supface
Well Type: (circle one) Re		NOI	eo: ·	
Bedrock Te	mporary			
Other				
BEFORE	ABANDONMENT	l	AFTER ABA	NDONMENT:
WELL CONST	RUCTION SUMMARY		0	NO YES N/A
Well No.	Well Location/ Parçel:		Concrete Pad	Kemoved
KNG-109-MWOZ	Drilled By:	23 Alpha	Protective Po	
Total Depth (feet):	Drilled By:		Outer Casing Flush Mount	Removed
31.9 TOC	MillER DRilling	Co	r iusii ivivuit	
31.9 Toc Date Completed:	Ground Elevation: 60	25.88	Disposition of	f Well Materials:
DECEMBER 2001	TOC Elevation: 60	8.13		
		OWNHOLE		
		DEPTHS		SURFACE COMPLETION:
	CONDUCTOR HOLE DIA <u>N4</u>	TOP NA		SURFACE COMPLETION:
		TOM NA		
	OUTER CASING TYPE NA	TOP NA		
	I.D. O.D. BOT	ITOM NA		DEPTH TO WELL CASING 2
		TOP 0		•
	BOREHOLE DIA 8" BOT	ттом 31.5		
В	TYPE OF BACKFILL MATERIAL	TOP 0		ABANDONMENT MATERIAL
	/' . \ " • · · · · · · · · · · · · · · · · · ·	ттом 6.9		TYPE EMENT GROST
	WINT CASING			VOLUME USED 0.70 H
	TYPE PVC Sch 40	TOP -Z.25		Manufacturer Port Ign II
	I.D. Z O.D. BO	76.9		
		TOP 6.9		
	SEAL TYPE BENTON'TE BO	оттом 11. 9		
│	FILTER PACK#1 F: HER SAN	TOP //.9 DITTOM 31,5		
l ₩ E ₩ Γ	TYPE AC SCREEN	TOP		TOTAL DEPTH OF
	[TOP 16,9		ABANDONMENT31-9
	I.D BC	27.7		
I REPORTED A	SUMP		1	e e
	TYPE Endcap	TOP 31.9		
1	I.D. Z O.D B	J1.7	J	

IT CORPORATION A Member of The IT Group	Well Abandonment Form		
Project:	Well Number:		
FTMC South Atlantic Division TERC	RNG-109-MNO3		
Client: USACE Mobile District	Well Coordinates:		
Project No. 77464	N 1174763.33 E 622673.6 Prepared By: Reference Point for Measurements:		
Start Date: Date Completed:	Prepared By: Reference Point for Measurements:		
1/19/05 1/20/05	KYLE WILSON GRONNI SURFACE		
Well Type: (circle one) Residuum	NOTES.		
Bedrock Temporary			
Other			
BEFORE ABANDONMENT	AFTER ABANDONMENT: NO YES N/A		
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed		
Well No. Rw6-109- mw03 Well Location/ Parcel: Range 23 Ag Total Depth (feet): Drilled By:	Protective Posts Removed		
Total Depth (feet): Drilled By:	771 1 3 4 7 7 3		
33.5 TOC			
33.5 Toc Date Completed: Ground Elevation: 598.16	Disposition of Well Materials:		
WECENSER 2001 TOC Elevation: 600.27			
DOWN.			
CONDUCTOR HOLE DIA NA TOP	SURFACE COMPLETION: 2/X2'X' CONCRETE		
воттом	NA .		
OUTER CASING TOP	~/A		
I.D O.D BOTTOM	DEPTH TO WELL CASING 2'		
BOREHOLE DIA 8" BOTTOM			
TYPE OF BACKFULL MATERIAL TOP			
GROW! BOTTOM	8.5 Type Gment Grout		
WELL CASING TOP	VOLUME USED O. 73 (1)3 Manufacturer ORHAND Type 11		
TYPE PVC Sch 40 BOTTOM	18.5 Manufacture (247) 1965		
I.DZ O.D TOP			
SEAL TYPE BEATONIE BOTTOM			
FILTER PACK#1 Filter Sand BOTTOM			
TYPE PSCREEN TOP	MATERIAL 33.3		
ID ВОТТОМ			
SUMP TYPE <u>E. J.C.A.P</u> L.D. <u>Z</u> O.D BOTTOM	[12. -2		

IT CORPORATION A Member of The IT Group			bandonment Form
Project:		Number:	
FTMC South Atlantic Division TERC		RNG-	109-mwo4
Client: USACE Mobile District	Well	Coordinates:	
Project No. 774645	N /	175053.46	E 622823.73 Reference Point for Measurements: CROWN SURFACE
	Prepa	ared By:	Reference Point for Measurements:
Start Date: Date Completed: 1/19/05 1/20/05	KylE	Wilson	GROUND SURFACE
Well Type: (circle one) Residuum	NOT		
Bedrock Temporary			
Other			
BEFORE ABANDONMENT		AFTER ABA	NDONMENT: NO YES N/A
WELL CONSTRUCTION SUMMARY		Concrete Pad	
Well No. 0 Well Location/ Parcel:	ald.		ests Removed
Well No. RNG-109 mwo4 Well Location/ Parcel: Kange 23 a Total Depth (feet): Drilled By:	TIPM	Outer Casing	Removed U
415 TOC MillED DOIL		Flush Mount	Removed
Date Completed: Ground Elevation:	04.08	Disposition of	f Well Materials:
	16 06 ·	F	
D	OWNHOLE		
	DEPTHS		SURFACE COMPLETION:
CONDUCTOR HOLE DIA NA	TOP NA		SURFACE COMPLETION: 2 X2' X1 CONCRETE
OUTER CASING	ائن ا		
TYPE NA	TOP NA		DEPTH TO WELL CASING Z'
			DE INTO WEEL CASHIO E
BOREHOLE DIA 8	TOP 0 OTTOM 4/1.5		
	TOP 0		
(00)	OTTOM 16.5		ABANDONMENT MATERIAL TYPE CEMENT GROW
WIND CASING	<u></u>		VOLUME USED 0.91 A3 Manufacturer Deltand Type II
TYPE NC Sch 40	TOP 7.98		Manufacturer IBRHAND TYPETT
1D. 2 O.D	76.5		
SEAL TYPE BENTONITE B	TOP 16.5 80TTOM 21.5		
FILTER PACK #1 F:/HER SAN	TOP 21.5		
TYPE PUC Sch YO ID. Z O.D. I	TOP Z6.5 BOTTOM 4/.5		TOTAL DEPTH OF ABANDONMENT MATERIAL 41.5
SUMP	t de la constante de la consta		
TYPE <u>FACCAD</u>	TOP 41.5 BOTTOM 41.5		

IT CORPORATION			Well A	bandonment Form
Attember of The IT Group Project:		Well	Number:	
	ntic Division TERC		D. K. 3.	08-MWO1
Client: USACE Mobile I		Well	Coordinates:	50-mber
· ·				
Project No. 774645		N 11	5956.42	E 6230/6.98 Reference Point for Measurements:
Start Date: 1/25/05	Date Completed: 1/26/25	Prep	ared By:	Reference Point for Measurements:
1/19/05	1/20/05	NOT	Wilson TES:	GROUND SUHACE
Well Type: (circle one) Re	siduum			-
Bedrock Te	mporary			
Other				
	ABANDONMENT		AFTER ABA	NDONMENT: NO YES N/A
WELL CONST	RUCTION SUMMARY		Concrete Pad	I Removed
Well No.	Well Location/ Parcel:	. DO=A	Protective Po	osts Removed \(\subseteq \tag{\bigsigma}
Total Depth (feet):	FORMER Shell TAPPED Drilled By:	3 THEM	Outer Casing	
921 700			Flush Mount	Removed
93.1 TOC Date Completed:	Miller De 11. by Co	2.05	Disposition of	f Well Materials:
March 2000	TOC Elevation: 73 4	.03	Disposition of	
1.4KCV 2000		VHOLE		
, 3 <u>111</u>	· Đ	EPTHS		
r=	CONDUCTOR HOLE DIA NA TOP	NA		SURFACE COMPLETION: 2'X2'X1 CONCERTE
	воттом	NA		
	OUTER CASING TYPE NO TO	NA		
	I.D. O.D. BOTTOM	NA	 	DEPTH TO WELL CASING 2'
	TO	0		
	BOREHOLE DIA BOTTON	93.1		
Т	TYPE OF BACKFILL MATERIAL - TO	0		ABANDONMENT MATERIAL
	BOTTON	1 63.1		TYPE CEMENT GROWT
	WELL CASING			VOLUME USED 2.03 ft ³ Manufacturer LORT/AND TYPE IT
	TYPE NC Sch 40 BOTTON			Manufacturer log tland Type II
	I.D. Z O.D	1/3./	' 1884	
	SEAL TYPE BEATONE BOTTON	<u> </u>		
	LILIER LACK / / / / / / / / / / / / / / / / / / /	08.1		
	SCREEN	75.7		TOTAL DEPTH OF ABANDONMENT C2
	TYPE NC Sel 40 TO BOTTO	OP 73.1 M 93.1]	MATERIAL 93
	SUMP TYPE	ор <i>93. /</i> ом <i>93. /</i>		

IT CORPORATION A Member of The IT Group		Well Abandonment Form			
Altember of the II Group Project:			Well Number:		
FTMC South Atlantic Division TERC		·	RNG-208-MWOZ		
Client: USACE Mobile District		Well Coordinates:			
Project No. 774645		N	161076.82	E 622581.64 Reference Point for Measurements:	
Start Date:	Date Completed:	Prepa	red By:	Reference Point for Measurements:	
1/25/05	1/26/05	KILE	<i>Vibor</i> ES:	CROWN SURFACE	
Well Type: (circle one) Residuum		NOT			
Bedrock Temporary					
Other					
BEFORE ABANDONMENT			AFTER ABA	NDONMENT: NO YES N/A	
•	RUCTION SUMMARY		Concrete Pad	Removed	
Well No. p. hy6-zox-mwos	Well Location/ Parcel:		Protective Po		
KNG-208-MWOS Total Depth (feet):	FORMER Shell Tapping AREA Drilled By:	a	Outer Casing		
10 m. 2 op m. (2005).	Difficulty.		Flush Mount		
163.5 TOC Date Completed:	Ground Elevation: 710.86		Disposition of	Well Materials:	
MARCL ZOOO	TOC Elevation: 7/3.25		Disposition of		
MARCE ZOOO	DOWNE	IOLE			
A Addition of the Control of the Con	·· ĐEI	PTHS			
	TOP			SURFACE COMPLETION:	
	ONDUCTOR HOLE DIA 10 BOTTOM 7	72			
	OUTER CASING				
	TYPE CARBON STEE! BOTTOM		I 🗱	DEPTH TO WELL CASING 7	
남았 [화크 1	D. BOTTOM	12		DEFINIO WELL CASINO C	
	BOREHOLE DIA 8	72		·	
	BOTTOM /	03.5			
	TYPE OF BACKFILL MATERIAL TOP	0		ABANDONMENT MATERIAL	
	GROST BOTTOM	70		TYPE CFORT GROUT	
	WELL CASING TOP C			VOLUME USED 2.26 ft Manufacturer Delta Type II	
	TOP - BOTTOM	2.89		Manufacturer BkHqnd Typf II	
	I.D2 O.D BOTTOM [5]	83.5			
	SEAL TYPE Benton to BOTTOM				
		75			
	FILTER PACK #1 F. HER SAND BOTTOM	75 103.5			
	SCREEN TYPE WC Sch 40 TOP	المه دمه		TOTAL DEPTH OF ABANDONMENT	
	1D 2 O.D. BOTTOM	103.5		MATERIAL 103.5	
	SUMP YPE ENCAP TOP	1035			
L	D. Z O.D. BOTTOM	123.5			

IT CORPORATION A Member of The IT Group				Abandonment Form	
Project:		Well	Well Number:		
FTMC South Atlantic Division TERC			RE-muol		
Client: USACE Mobile District		Well	Coordinates:		
Project No. 774645		N	75307.4	E 607793.63 Reference Point for Measurements:	
Start Date:	Date Completed:	Prep	ared By:	Reference Point for Measurements:	
Start Date: //18/05	1/19/05	FYE	Wilson ES:	GROUND SURFACE	
Well Type: (circle one) Residuum		NO			
Bedrock Te	mporary				
Other					
BEFORE	ABANDONMENT	<u> </u>	AFTER ABA	NDONMENT:	
WELL CONSTRUCTION SUMMARY			Concrete Pad	NO YES N/A I Removed	
Well No. RF-MWO / Total Depth (feet):	Well No. 0 - Well Location/ Parcel:		Protective Po		
Total Depth (feet):	Well Location/ Parcel: Drilled By:		Outer Casing		
26.3 TOC	Miller Deiling Ground Elevation: 53.15		Flush Mount	Removed	
Date Completed:	Ground Elevation: 553.75	5	Disposition of	f Well Materials:	
Z00Z	100 Elevation: 355.4	7/			
		NHOLE DEPTHS			
	***		 	SURFACE COMPLETION: 2'Y2' X1' C CONCRETE	
	CONDUCTOR HOLE DIA <u>NA</u> BOTTO			Tyc XI Covered	
	OUTER CASING	OP C	l 🗱		
	TYPE //A BOTTO	M NA		DEPTH TO WELL CASING 2'	
	BOREHOLE DIA 8				
		M Z43			
	TYPE OF BACKFILL MATERIAL BOTTO			ABANDONMENT MATERIAL	
		···[<u>@.3</u>]		VOLUME USED 0.57ft	
	TYPE PVC Sch 40	OP -2.26		Manufacturer Polithan tipe IT	
1 1000 1000	I.D. 2 O.D. BOTTO	M [16.3]			
	SEAL TYPE BENTO BOTTO	OP 6.3			
│	FILTER PACK#) FILTER SAND BOTTO	OP 11.3 DM 24.3			
	1112	OP 16.3		TOTAL DEPTH OF ABANDONMENT MATERIAL 7	
	I.D. C O.D. BOTTO	DM [26.3			
1	II CANCAP	TOP Z6.3			

IT CORPORATION A Member of The IT Group	Well Abandonment Form		
Project:	Well Number:		
FTMC South Atlantic Division TERC	RF-MWOZ		
Client: USACE Mobile District	Well Coordinates:		
Project No. 774645	N 1175769.35 E 607761.15		
Start Date: Date Completed: 1/18/05 1/18/05	N 1175769.35 E 607761.15 Prepared By: Reference Point for Measurements: KIE Wilson GROOND SURFACE NOTES:		
Well Type: (circle one) Residuum	NOTES:		
Bedrock Temporary			
Other			
BEFORE ABANDONMENT	AFTER ABANDONMENT: NO YES N/A		
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed		
Well No. fr- Well Location/ Parcel: Kideout Field Drilled By:	Protective Posts Removed		
Total Depth (feet): Drilled By:	Outer Casing Removed		
763 TOC MillED DOUBLE CO	Flush Mount Removed		
Date Completed: Date Completed: Ground Elevation: 550.50	Disposition of Well Materials:		
2007 TOC Elevation: 552.63			
DOWN	HOLE		
DE COMP	SURFACE COMPLETION: 2'X2'X1' CONCRETE		
CONDUCTOR HOLE DIA NA BOTTOM	NA Z'KZ'XI' CONCRETE		
OUTER CASING			
TYPE NA TOP	DEPTH TO WELL CASING Z'		
I.D O.D BOTTOM	NA DATINO WILL CASH C		
BOREHOLE DIA BOTTOM			
TYPE OF BACKFILL MATERIAL TOP			
Chart BOTTOM	ABANDONMENT MATERIAL TYPE (English (Ska) 1		
WELL CASING	VOLUME USED O. 5 744		
WELL CASING TOP TYPE PK Sch 40 BOTTOM	Z.13 Manufacturer Cottland Type II		
i.D Z o.D	[/(.3]		
SEAL TYPE SEADON BOTTOM	113		
FILTER PACK #1 F. HER SAND BOTTOM	26.3		
SCREEN TYPE PVC SCL 40 TOP 1.D. Z O.D BOTTOM	TOTAL DEPTH OF ABANDONMENT 26.3		
SUMP TYPE ENOCAP 1.D. Z O.D. BOTTOM			

IT CORPORATION				Well A	bandonment Form
A Microber of The IT Group Project:			Well 1	Number:	
	antic Division TERC			RF-n	a. (a. 3
Client: USACE Mobile I	District		Well	Coordinates:	(WV 3
Project No. 2011 45			N .	· · · //-	E (- 20) = 01
Start Date:	Date Completed:		Prena	<u>75 140.85</u> red By:	E 607815, 86 Reference Point for Measurements:
1/18/05	1/19/05		KylE	Wilson	GROUND Suffer
Well Type: (circle one)			NOT	ES:	
Bedrock Te	emporary				
Other					
BEFORE	ABANDONMENT		5.	AFTER ABA	NDONMENT: NO YES N/A
• • • • • • • • • • • • • • • • • • • •	RUCTION SUMMAR	Y		Concrete Pad	
Well No. RF - MW3	Well Location/ Parce	1: H F. 5-12		Protective Po	
Total Depth (feet):	Drilled By:	, ,,,,,,		Outer Casing	
ZZ.8 Toc Date Completed:	Miller Drilling Ground Elevation:	c Co.		Flush Mount	Removed
	· I	557.01	1	Disposition of	Well Materials:
2002	TOC Elevation:	554.21			
		DOWNHO DEP	1		
				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SURFACE COMPLETION:
	CONDUCTOR HOLE DIA_NA	BOTTOM A	<u> </u>		C X 2 Y, CONCRETE
	OUTER CASING				
	TYPE <i>NA</i> I.D. O.D.		NA 10		DEPTH TO WELL CASING 2
		TOP			
	BOREHOLE DIA 8	воттом 2	7.8		
	TYPE OF BACKFILL MATERIAL	TOP	0		ABANDONMENT MATERIAL
	GROUT	воттом	5.0	M —	TYPE CEMENT GROUT
	WELL CASING	тор –	772		VOLUME USED 0.50 74 Manufacturer PONTO TYPE TI
	TYPE PUC SCL 40	BOTTOM /	28		Manuacune Dropper - yre 11
	I.D. Z O.D]			
	SEAL TYPE <u>BEN tonite</u>	воттом	7.8		
	FILTER PACK #1 F://FR Saro	TOP BOTTOM 7	7.8 22.8		
	SCREEN TYPE PVC 5c2 40 1.D. 2 0.D.	TOP 7	12.8		TOTAL DEPTH OF ABANDONMENT ZZ. 8
	SUMP TYPE <u>Endcap</u> I.D. 2 O.D	тор 7	22.8		,

IT CORPORATION A Member of The IT Group			Well Abandonment Form		
Project:	. D	W	ell Number:		
	antic Division TERC		KF-,	mvo4	
Client: USACE Mobile I	District	W	ell Coordinates:		
Project No. 774645		N	1174360.65	E 607894.02	
Start Date:	Date Completed:	Pr	epared By:	Reference Point for Measurements:	
Start Date: 1/18/05	1/19/05	Ky.	E Wilson	Reference Point for Measurements: Ground Surface	
Well Type: (circle one) Ro	esiduum	N			
Bedrock Te	emporary				
Other					
BEFORE	ABANDONMENT		AFTER ABA	ANDONMENT: NO YES N/A	
•	TRUCTION SUMMARY		Concrete Pag		
Well No. RF-muoy Total Depth (feet):	Well Location/ Parcel	l:		osts Removed	
Total Depth (feet):	Drilled By:	Field	Outer Casing		
72, To	Mila Di	/	Flush Mount		
ZZ.6 Toc Date Completed:	Ground Elevation:	<u>'AS</u>	Disposition	f Well Materials:	
2007		520.56	Disposition 0	TO THE INITIAL PROPERTY OF THE	
2000		DOWNHOL	i i		
		DEPTH	S		
	CONDUCTOR HOLE DIA NA	TOP NA		SURFACE COMPLETION: Z XZ XZ Conchit	
	OUTER CASING	BOTTOM NA	1		
	TYPE NA	TOP NA] 🗱	7/	
	I.D O.D	BOTTOM NA	→	DEPTH TO WELL CASING 7	
	BOREHOLE DIA 8"	· TOP O		•	
		воттом 22.0		, i ann	
	TYPE OF BACKFILL MATERIAL -	BOTTOM 3	-	ABANDONMENT MATERIAL	
		BOTTOM 3. 2	- K	VOLUME USED 0.49 + 3	
	WELL CASING TYPE PUC Sc4 40	TOP -2.2		Manufacturer RORALAND TIPE II	
	I.D. Z O.D.	воттом /2.			
		TOP 3.0			
	SEAL TYPE <u>BENTONITE</u>	воттом 7.6		•	
₩	FILTER PACK#1 Filter Sand	TOP 7.6			
l 👹 [SCREEN			TOTAL DEPTH OF	
	TYPE AVC Scl. 40 I.D. Z O.D	тор <i>12.</i> воттом 27.		ABANDONMENT MATERIAL C2. 6	
	SUMP	·			
	TYPE Endcap	TOP 22.			
	I.D O.D	20110M [22-	<u> </u>		

IT CORPORATION A Member of The IT Group				bandonment Form
Project:		Well	Number:	
FTMC South Atlantic Di	vision TERC		RF-n	าพอร
Client: USACE Mobile District		Well	Coordinates:	
Project No. 774645		$\lceil N \rceil_{I}$	17.5304.31	E 607769.39
Start Date: Date	Completed:	Prepa	ared By:	E 607769.39 Reference Point for Measurements:
1/18/05	1/19/05	Kyle	Wilson ES:	GROUND SURFACE
Well Type: (circle one) Residuum		NOI	E5:	-
Bedrock Temporary				
Other				
BEFORE ABAND	OONMENT	- - -	AFTER ABAI	NDONMENT:
WELL CONSTRUCTION	ON SUMMARY		Concrete Pad	NO YES N/A Removed
Well No. De Well	Location/ Parcel: Kideout Field	.)	Protective Pos	
Well No. RF-mwas Well Total Depth (feet): Drille	ed By:		Outer Casing	
94.2 TOC 11.	MillER DRILLING		Flush Mount	Removed
Date Completed: Grou	and Elevation: 552. 25	5-	Disposition of	Well Materials:
Zooz Toc	Elevation: 554.85	·		
	DOWN	HOLE EPTHS		
				SURFACE COMPLETION: Z X Z X / CONCRETE
CONDUCTOR	R HOLE DIA / C	29		
OUT	ER CASING TOP	0		
TYPE (AP	ER CASING TOP 50.D. BOTTOM	29	 	DEPTH TO WELL CASING 2
	TOP	29		·
BOREHOLE	DIA 0 BOTTOM	94.2		
TYPE OF BA	CKFILL MATERIAL - TOP	0		ABANDONMENT MATERIAL
	ВОТТОМ	19		TYPE CEMENT COROUT, VOLUME USED 8. 22 473
TYPE PIL	LL CASING TOP			Manufacturer Portland Type II
ID. 4"	O.DBOTTOM	69.2		
	TOP	19		
SEAL TYPE	BENTOM BOTTOM	64.2		
FILTER PAC	TOP BOTTOM	64.2. 94.2		
TVDE PV	SCREEN TOP	69.2		TOTAL DEPTH OF ABANDONMENTS 4, Z MATERIAL TOTAL DEPTH OF
1.D. 4 ^h				MATERIAL 11. C
TYPE Exc I.D. 4"	SUMP TOP _ O.D ΒΟΤΤΟΜ	94.2 94.2		

IT CORPORATION A Member of The IT Group	Well Abandonment Form
Project:	Well Number:
FTMC South Atlantic Division TERC	RF-MWOL
Client: USACE Mobile District	Well Coordinates:
Project No. 774645	N 1175/121 HIG E 1007745810
Start Date: Date Completed:	N 1175/61.46 E 607745.86 Prepared By: Reference Point for Measurements:
1/18/05 1/19/05	Kyle Wilson GRound Surface NOTES:
Well Type: (circle one) Residuum	NOTES:
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT:
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed NO YES N/A
Well No. RF- wow Well Location/ Parcel: Total Double (foot): Drilled By:	
Total Depth (feet): Drilled By:	Outer Casing Removed /
832 TOC WILLER DR. YILL C	Flush Mount Removed
83. Z TOC WILLER DR. 11. hs Co Date Completed: Ground Elevation: 550.	o/ Disposition of Well Materials:
ZOOZ TOC Elevation: 532.1	16
DOW	VNHOLE
	DEPTHS SURFACE COMPLETION: Z K2'K1 Lockett
CONDUCTOR HOLE DIA 14" TO BOTTO	
TYPE CARDON 3/LE/	OP OP DEPTH TO WELL CASING Z'
BOREHOLE DIA 8 BOTTO	OP 24.5 DM 83.2
	0P 6
GR J BOTTO	ABANDONMENT MATERIAL TYPE CENEST GROWT
WELL CASING	TYPE CENEST GROWT VOLUME USED 7.26 173 Manufacturer ORHAND Type II
I.D. 4 O.D. BOTTO	
SEAL TYPE BENTON 45, BOTTO	TOP 14.5 OM 56
	TOP 56 OM 83.2
SCREEN TYPE PVC 5ch 80 I.D. 4" O.D. BOTTO	TOTAL DEPTH OF ABANDONMENT MATERIAL S3. 2
	TOP \$3.2 TOM \$3.2

IT CORPORATION		Well A	Abandonment Form
A Member of The IT Group Project:		Well Number:	
	lantic Division TERC	RF-M	4107
Client: USACE Mobile	District	Well Coordinates:	<i>me</i> (
Project No.		N o.	F (242.12
774645 Start Date:	Date Completed:	Prepared By:	E 607824.7 Reference Point for Measurements:
1/18/05	1/19/25	Kuli Wiken	Colored Solface
		Kyle Wilson NOTES:	
Well Type: (circle one) R	esiduum	·	
Bedrock	emporary		
Other			
Other			
BEFORI	E ABANDONMENT	AFTER ABA	NDONMENT:
WELL CONS	TRUCTION SUMMARY	Concrete Pad	NO YES N/A Removed
Well No. RF-mwo7	Well Location/ Parcel:		ests Removed
Total Depth (feet):	Drilled By:	Outer Casing	
1	1	Flush Mount	·
Date Completed:	Ground Elevation: 549.76		CYTTALA
l .	TOC Elevation: 549.79	Disposition of	f Well Materials:
2002	DOWNIE DOWNIE	HOLE	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DE	PTHS -	
	CONDUCTOR HOLE DIA 14 TOP	0 1	SURFACE COMPLETION: 2'X2'Y1' CONCRETS
	воттом	29 *****	
	OUTER CASING, TYPE CARSON STEEL TOP		
	I.D. S O.D. BOTTOM	25	DEPTH TO WELL CASING 2'
	BOREHOLE DIA 8"	25	•
	BOREHOLE DIA Ø BOTTOM	86.9	
	· / / /	0	ABANDONMENT MATERIAL
	BOTTOM	15	VOLUME USED 7.58 H
	TYPE PVC SCK 80	-2./3	Manufacturer Portland Type II
	I.D. 4" O.D. BOTTOM	45	
	TOP	15 M	
	SEAL TYPE BENTON TE BOTTOM	55 20	
	FILTER PACK IN FILTER SAND TOP		,
	воттом		
	TYPE PUC SCH 80 TOP	619	TOTAL DEPTH OF ABANDONMENT MATERIAL 86.9
		86.9	MATERIAL <u>86.1</u>
	SUMP TYPE ENDOR	86.9	
	1.D. 4" O.D. BOTTOM	86.5	

IT CORPORATION A Mander of The IT Group			Well A	Abandonment Form
Project:	ntic Division TERC	Well	Number:	
Client: USACE Mobile D		Wel	Coordinates:	-Mn01
Project No.	Idilot			UN AVA: 1451E
114645		N		E
Start Date: //25/05	Date Completed:		ared By: Wilson	Reference Point for Measurements:
	siduum	NOT	ES:	
Bedrock Ter	nporary			
Other				
BEFORE A	ABANDONMENT		AFTER ABA	NDONMENT:
WELL CONSTI	RUCTION SUMMARY			NO YES N/A
Well No.	Well Location/ Parcel:		Concrete Pad	
Total Depth (feet):	Well Location/ Parcel: OPEN BURNANN OFFN D Drilled By:	Etonation	Outer Casing	sts Removed
• ` ` ′			Flush Mount	
32. 3 TOC Date Completed:	Ground Elevation:		Diamonition of	f Well Materials:
NOT AVAILABLE	TOC Elevation: 557.		Disposition of	well iviaterials.
	DOV	WNHOLE DEPTHS		
	UNDUCTOR HOLE DIA 7007	OP MA		SURFACE COMPLETION: Z'AZ'KI' CONCRETE
	OUTER CASING BOTTO	OM NA		
	YPE NA T	TOP NA		27
	S			DEPTH TO WELL CASING Z
B → B	OBEROLE DIA 💙	OM 32,3		
		102.5		
	VPE OF BACKFILL MATERIAL BOTTO	ом /7.3		ABANDONMENT MATERIAL TYPE (Emeat CROY)
	WELL CASING	ron [=/ 6]		VOLUME USED O. 70 ft3
	YPE PVC JC490	гор <i>7.69</i> ом 22.3		Manufacturer Polland Type II
	D. <u>C</u> 0.D.			
	EAL TYPE BEALONIE BOTTO	TOP 12.3 OM 17.3		
	BOTTO	тор , 7.3 ом 32.3		
1 1:5.1 1:5.1	YPE PVC SCL 40 D. Z O.D. BOTT	тор 27.3 ом 32.3		TOTAL DEPTH OF ABANDONMENT MATERIAL 32.3
	SUMP	_		
TYI I.D.	PE FINCAP	тор <u>32.3</u> гом <u>32.3</u>		

IT CORPORATION Attendar of The IT Comp		Well A	bandonment Form
Project:	Well	Number:	
FTMC South Atlantic Division TERC		OB/	OD-MWOZ
Client: USACE Mobile District	Well	Coordinates:	availasie
Project No. 774645	N		Е
Start Date: Date Completed: 1/20/05 1/25/05	Prep	ared By:	Reference Point for Measurements:
Well Type: (circle one) Residuum	NOT	ES:	UKUNO SUKIME
Bedrock Temporary			
Other			
BEFORE ABANDONMENT		AFTER ABAI	NDONMENT:
WELL CONSTRUCTION SUMMARY		Concrete Pad	NO YES N/A
Well No. ph/04 - raylo Z Well Location/ Parcel:	· / /	Protective Pos	
Well No. tb/OD -mwo? Well Location/ Parcel: Offen Bull And Offen D Total Depth (feet): Drilled By:	Ktonat.b	Outer Casing	
37.4 TOC URS		Flush Mount	Removed
Date Completed: Ground Elevation: 56	7.78	Disposition of	Well Materials:
Not Available TOC Elevation: 56	5.00		
DC	OWNHOLE DEPTHS		
	TOP NA	 	SURFACE COMPLETION: Z X Z X / Concrete
CONDUCTOR HOLE DIA MA	TTOM NO		
OUTER CASING TYPE NA	TOP NA		
	TTOM NA		DEPTH TO WELL CASING Z
BOREHOLE DIA	TOP 0		•
Type of Backfill Material	TOP 37.4		e de la companya del companya de la companya del companya de la co
	TTOM 17.4		ABANDONMENT MATERIAL TYPE CEMENT GROWT
WELL CASING			VOLUME USED O. 82H
TYPE AVC Sch 40 BO	10P - 2.72		Manufacturer PoAt 19ad Type II
D. Z O.D	TOD		
SEAL TYPE Beaton te BO	TOP 17. 4 OTTOM 22. 4		
	TOP 22. 4 DITTOM 37. 4		
SCREEN TYPE PVC 5CL 40 I.D. 22 O.D. BO	TOP 27.9 DITTOM 37.9		TOTAL DEPTH OF ABANDONMENT MATERIAL 37.4
SUMP TYPE Findap I.D. Z O.D. BO	TOP 37.4	MAG	

IT CORPORATION A Member of The IT Group			We	ll Abando	nment Form
Project:			Well Number:		
	ntic Division TERC		O	8/0D-MW03 es:	
Client: USACE Mobile D	District		Well Coordinat	es: Un Ava. 1961E	·
Project No. 774645			N	E E	
Start Date:	Date Completed:	I	Prepared By:	Reference	Point for Measurements:
1/19/05	1/25/05		Kylé Wilson NOTES:	GROUND	Surface
Well Type: (circle one)	siduum		NOTES:		
Bedrock Ter	mporary				
Other	•				
BEFORE A	ABANDONMENT		AFTER A	ABANDONMEI	
WELL CONST	RUCTION SUMMARY	r	Concrete	Pad Removed	NO YES N/A
Well No.	Well Location/ Parcel	· · · · · · · · · · · · · · · · · · ·		e Posts Remove	
Total Depth (feet):	OFEN BURN AND OFEN (JE tonation		sing Removed	"
33.3 TOC	1		5	ount Removed	
Date Completed:	Ground Elevation: 3	~~~ 117	Disposition	on of Well Mater	iolo
Not Available	TOC Elevation: 3	60.13	Disposition	on or wen mater	1415
		DOWNHO DEPT	1		•
	ONDUCTOR HOLE DIA NA	TOP N	4 1	SURFA Z X	CE COMPLETION:
		BOTTOM	⊿ ‱	`	
F (2)	OUTER CASING YPE NA	TOP	. TI 💥	≋	
	D O.D	воттом	- □ 	DEP	TH TO WELL CASING 2'
₿ ₩ - ₩	OREHOLE DIA 8	TOP 0			
	YPE OF BACKFILL MATERIAL	TOP.	— I IX		
	GROUP	воттом /3.		AB/	INDONMENT MATERIAL E CEMENT GROWT
	WELL CASING	TOP [_	VOL	UME USED 0.73 F43
	YPE PVC Sch 40	TOP -2.	7/	Man	efacturer Oct / And Type II
	D O.D	<u></u>			
	EAL TYPE BENTONITE	TOP /3 BOTTOM /8	3 3		. ·
▼	ILTER PACK #1F: HER SAN	TOP 18	13 1		
	SCREEN YPE <u>NC 3ch 40</u> D. Z O.D	TOP Z	3.3		AL DEPTH OF LINDONMENT 33 3
	SUMP	TOP]	·
•	PE <u>EndcaP</u> . 2 0.D	TOP 33	3.3		

IT CORPORATION	·		Well A	bandonment Form
Project:		Well N	lumber:	
	entic Division TERC		08/00-	mwey
Client: USACE Mobile I	District	Well C	Coordinates:	14VA: 1461E
Project No. 774645		N		E
Start Date:	Date Completed:	Prepare		Reference Point for Measurements:
	1/25/05	NOTE	Lilson S:	CROWN SUBJACE
Well Type: (circle one) Re	siduum			·
Bedrock Te	mporary			
Other				
BEFORE	ABANDONMENT	A	AFTER ABAI	NDONMENT: NO YES N/A
WELL CONST	RUCTION SUMMARY		Concrete Pad	
Well No. OB/OD -mwoy	Well Location/ Parcel:		Protective Pos	
Total Depth (feet):	Drilled By:	1	Outer Casing	
33.Z TOC	UR5	I	Flush Mount	Removed
Date Completed:	Ground Elevation: 559.77	I	Disposition of	Well Materials:
Not Available	TOC Elevation: 562.50 DOWNH	OLE -		
		THS -		
	CONDUCTOR HOLE DIA NA TOP		*******	SURFACE COMPLETION: 2'x2'x' Concrete
	воттом	Va		
	OUTER CASING TOP	NO		
	.D. O.D. BOTTOM	NA		DEPTH TO WELL CASING 2
	ODELOI E DIA /	0		
	TYPE OF BACKFILL MATERIAL TOP	3,2		
	GROUT BOTTOM	1351		ABANDONMENT MATERIAL TYPE CENER! GROST
	WELL CASING TOP TO	2 - 2		VOLUME USED 0.72 ft
B 11.10 11.10	TYPE PUC Sch 40 BOTTOM	4.73 P2 2		Manufacturer Portland Type II
		3.6		
	SEAL TYPE A EN TOP BOTTOM BOTTOM	3. C 8.2		
		5.2 33.2		
	SCREEN TYPE AL SL 40 TOP	22 7		TOTAL DEPTH OF ABANDONMENT
		3.2		ABANDONMENT 3. S
	SUMP			Language and the second
	TOP TOP	5.2		
1.0	D O.D BOTTOM	5.88		

IT CORPORATION A Manuscr of The IT Group	Well Abandonment Form
Project:	Well Number:
FTMC South Atlantic Division TERC	0B/0D-MW65
Client: USACE Mobile District	Well Coordinates:
Project No. 774445	N E
Start Date: Date Completed:	Prepared By: Reference Point for Measurements:
1/19/as 1/25/as	Kyle Wilson General Surface
Well Type: (circle one) Residuum	NOTES.
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT:
WELL CONSTRUCTION SUMMARY	NO YES N/A Concrete Pad Removed
Well No. Well Location/ Parcel: OBIOD - MUDS WELL DELONA OPEN BURN AND OPEN DE TONA	
Total Depth (feet): OFEN BURN AND OPEN DE tons	Outer Casing Removed
29,5 toc URS	Flush Mount Removed
Date Completed: Ground Elevation: 558.7	76 Disposition of Well Materials:
Not Available TOC Elevation: 561.64	to the second se
	NHOLE
	SURFACE COMPLETION: 7'XZ'X' Conclete
CONDUCTOR HOLE DIA N/9 BOTTOM	
OUTER CASING	
TYPE NA BOTTOM	
TOP	
BOREHOLE DIA BOTTOM	1 P 1 I IAMA
TYPE OF BACKFILL MATERIAL TOP	EXEI
<u> </u>	TYPE CEMENT GROUT
WELL CASING TOP	VOLUME USED 0, CS ft Manufacturer Publique Type II
TYPE PVC Sch 40 BOTTOM	
TOP	P(7/47)
SEAL TYPE BENTON'TE BOTTOM	
FILTER PACK TI F. HER Sand BOTTOM	
SCREEN TYPE PVC Sch 40 TOP	
І.D. 2. О.D. ВОТТОМ	1[29,9]
SUMP TYPE End Cop TOE	P 75.5
	Z9.9

IT CORPORATION		Well A	Abandonment Form
Assorter of The IT Group Project:		Well Number:	
	ntic Division TERC	08/00-1	mwolo
Client: USACE Mobile D	istrict	Well Coordinates:	INAVA: IASIE
Project No. 774645		N .	E
Start Date:	Date Completed:	Prepared By:	Reference Point for Measurements:
		Kylé Wilson NOTES:	GROUND SURFACE
Well Type: (circle one) Res	iduum		·
Bedrock Ten	nporary		
Other	•		
	DAND OND CONT		NA AND FENDE
	ABANDONMENT	AFTER ABA	ANDONMENT: NO YES N/A
•	RUCTION SUMMARY	Concrete Pac	d Removed
Well No. 08/00/mwo(o	Well Location/ Parcel: OPEN BORN AND OPEN DEFONATO Drilled By:	⁰ n	osts Removed
Total Dopal (1001).		Outer Casing Flush Mount	
32.5 TOC Date Completed:	Ground Elevation: 5/40.71		
Not Available	TOC Elevation: 563.41	Disposition o	f Well Materials:
NOT AVAITABLE	DOWNH	1	
	DEF	THS	CIPE OF COLOR FETCH
	ONDUCTOR HOLE DIA NA BOTTOM		SURFACE COMPLETION: 2'X2'X1 Conclete
	OUTER CASING		
1 1-1999 (9994-4-1	TOP		DEPTH TO WELL CASING Z'
	TOP		
	OREHOLE DIA O	2.5	
	WPE OF BACKFILL MATERIAL TOP BOTTOM		ABANDONMENT MATERIAL
		كا ا	VOLUME USED C. 71 43
	YPE AVE SCL 40 TOP	2.70	Manufacturer Port land Type TI
	D Z O.D BOTTOM _ Z	<u> </u>	. L
	EAL TYPE BEATON IE BOTTOM	Z.5 /7.5	
	LITER PACE TO TOP DOTTOM	77.5	
1 PA-1PA-1	YPE AC SCH 40 TOP D O.D BOTTOM	72.5 32.5	TOTAL DEPTH OF ABANDONMENT MATERIAL 32.5
	FE ENCAP TOP TOP TOP DOTTOM	325 32.5	

IT CORPORATION A Manbre of The IT Group		Well	Abandonment Form
Project:		Well Number:	
	antic Division TERC	08/	00-mw07
Client: USACE Mobile I	District	Well Coordinates	: UNAVA:lasie
Project No. 774645	And the second of the Adventure of the second of the secon	N	E
Start Date:	Date Completed:	Prepared By:	Reference Point for Measurements:
1/20/05	1/25/05	Kyle Wilson NOTES:	GROUND SURFACE
Well Type: (circle one) Re	esiduum	NOTES:	
Bedrock Te	emporary		
Other			
	ABANDONMENT	AFTER AF	BANDONMENT: NO YES N/A
WELL CONST	RUCTION SUMMARY	Concrete P	ad Removed
Well No. Ob/OD -mw07	Well Location/ Parcel: OPEN BURN AND OPEN DESERT		Posts Removed
Total Depth (feet):	Drilled By:	Outer Casi	ng Removed
40.4 TOC	VR5	Flush Mou	nt Removed
Date Completed:	Ground Elevation: 556.7	Z Disposition	of Well Materials:
Not Avrilable	TOC Elevation: 559. 70	₹.	
	DOWNF	PTHS -	
			SURFACE COMPLETION: 2' x 2' x 1' Conclete
	CONDUCTOR HOLE DIA BOTTOM	1/2	eren conden
	OUTER CASING TOP	NA I	
1 - 1 - 1 - 1 - 1 - 1 - 1			DEPTH TO WELL CASING Z'
	воттом 2	ho.6	
	[20 m 1]		ABANDONMENT MATERIAL
	Воттом	21.6	TYPE CEMENT GROWT VOLUME USED O. 85 FF
	TYPE AC Se 40	2.50	Manufacturer of the Type TI
	D.D. 2 O.D. BOTTOM .	30.6	~
	SEAL TYPE & ton'the BOTTOM	21.4	
	BOTTOM	25.6	
		25.6 40.6	
	SCREEN TYPE PVC Scl. 40 TOP [-	30.6	TOTAL DEPTH OF ABANDONMENT
		40.6	ABANDONMENT MATERIAL 40.6
MONOM A	SUMP		
:		40.6	
	C C.D	10.6	

IT CORPORATION	Well Abandonment Form
AMende of the IT Group Project:	Well Number:
FTMC South Atlantic Division TERC	Well Coordinates: UNAVAILASIE
Client: USACE Mobile District	Well Coordinates: UNAVAILASIE
Project No. 774645	N E
Start Date: Date Completed:	Prepared By: Reference Point for Measurements:
	NOTES: GROUND SURFACE
Well Type: (circle one) Residuum	
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT: NO YES N/A
WELL CONSTRUCTION SUMMARY	Concrete Pad Removed
Well No. Well Location/ Parcel: OPEN BURE AND OPEN De for. Total Depth (feet): Drilled By:	Ation Protective Posts Removed
Total Depth (feet): Drilled By:	1 1 1 1 1 1
30.2 TOC DRS	Flush Mount Removed
Date Completed: Ground Elevation: 549.	
Not Available TOC Elevation: 551.9	
	EPTHS
CONDUCTOR HOLE DIA MA	SURFACE COMPLETION: 2' X2' X1 CONCRETE
ВОТТОМ	Ng
OUTER CASING TYPE OUTER CASING TOP BOTTOM	
	DEPTH TO WELL CASING Z'
BOREHOLE DIA BOTTOM	<u> ≚ - 10</u> 80
TYPE OF BACKFILL MATERIAL FOR GROUP BOTTOM	[<u>30.2]</u>
GRo.) BOTTOM	ABANDONMENT MATERIAL TYPE CEMENT GROW
WELL CASING TOP	volume used <u>0.66-f+3</u>
TYPE AVC SCH 40 ID. Z O.D. BOTTOM	76.2 Manufacturen OAHA T.p. II
ТОР	
SEAL TYPE BEATON TE BOTTOM	10 2 15 2
FILTER PACKETY F. HER SOND TOP	15.7
ВОТТОМ	
	TOTAL DEPTH OF ABANDONMENT MATERIAL 30.2'
моттом	30.Z MATERIAL
ŞUMP	MVM
TYPE ENDCAP TOP	130.01

IT CORPORATION	Well Abandonment Form
Attender of The IT Group Project:	Well Number:
FTMC South Atlantic Division TERC	0B/0D-mw09
Client: USACE Mobile District	Well Coordinates:
Project No. 774645 Start Date: Date Completed:	UNAVA: 1A51E N E
Start Date: Date Completed:	Prepared By: Reference Point for Measurements:
1/20/05 1/25/05	KylE Wilson GROUND SURFACE
Well Type: (circle one) Residuum	NOTES:
Bedrock Temporary	
Other	
BEFORE ABANDONMENT	AFTER ABANDONMENT:
WELL CONSTRUCTION SUMMARY	NO YES N/A
Well No. Well Location/ Parcel:	Concrete Pad Removed Protective Posts Removed
Total Depth (feet): OB/OD MWO 9 OPEN DETOINTION AND OPEN Drilled By:	Outer Casing Removed
32.8 TOC URS	Flush Mount Removed
Date Completed: Ground Elevation: 550.63	Disposition of Well Materials:
Not Available TOC Elevation: 553.19	. Disposition of Well Materials.
DOWN	1
DI	SURFACE COMPLETION: Z Y Z' X ! Concrete
CONDUCTOR HOLE DIA NA BOTTOM	NA Z'X'X' Concrete
OUTER CASING	
TYPE NA TOP 1.D. O.D. BOTTOM	NA DEPTH TO WELL CASING Z
TOP	
BOREHOLE DIA &	32.8
TYPE OF BACKFILL MATERIAL TOP	
Блон воттом	12.8 TYPECEMENT CHANT
WELL CASING TOP	VOLUME USED 0.72 ft 3 Manufacturer Polk+/qwd Type 17
TYPE AVC Set 40 BOTTOM	7 2.8
TOP	128
SEAL TYPE BENTON'TE BOTTOM	17.6
FILTER PACK#/ Filter San BOTTOM	37.8
TYPE AL SAL 40 TOP BOTTOM	MATERIAL 32.0
TYPE PVC Sch 40 TOI 1.D. 2 O.D. BOTTOM	· <u>3</u> 2. 玄 432. 玄