

GW IMPACT W/ THREAT TO
WATER SUPPLY WELL.

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JUN 14 1993
ENV. MANAGEMENT
FAYETTEVILLE REG. OFFICE

INITIAL SITE CHARACTERIZATION
CALLICUTT GROCERY
SR 1306 & 1311
ABNER, MONTGOMERY COUNTY

Prepared for: H. R. Holt Oil Company, Inc.
P. O. Box 525
Troy, NC 27371

Prepared by: CERTIFOAM SERVICES, Inc.
P. O. Box 5524
Winston-Salem, NC 27113

JUNE, 1993

CD → ...
S = Full Report ...

...

I. SUMMARY

Ground water at Callicutt Grocery contains dissolved phase petroleum hydrocarbons. Source was the underground storage tank (UST) system, removed last year. Free product is present in a small area. The water table slopes down to the southeast, toward a water supply well. Initial response activity to remove free product and protect water supply quality is needed, and required within fourteen days. Additional monitor wells are needed to assess the horizontal and vertical extent of the plume of gasoline impacted ground water.

II. BACKGROUND

This site characterization was necessitated by discovery of petroleum contaminated soil during UST system closure by removal. Further excavation was unable to remove all remaining contaminated soil. Therefore, a ground water investigation became necessary.

Setting Callicutt Grocery is a small general store in sparsely populated, north central Montgomery County. The location, on the Lovejoy 7 1/2 minute USGS Quadrangle, is shown on Figure 1. At the intersection of State Roads 1303 and 1311, the site slopes gently to the east-northeast and to the south-southwest. The land rises gently to the north, across SR 1311, and to the south, toward the residence shown on the site map (Figure 2).

There are no public water or sewer systems; well water and septic systems service the store and all nearby residences. The nearest supply well is next to the shed at the rear of the residence (see Figure 2) and also supplies the store. About 300 feet to the east is another residential water supply well. No others are operational within 1500 feet. The store's septic drain field is to the rear (east) of the building.

The site is located in the Carolina Slate Belt. Bedrock is shown on the NC Geologic Map to be the Uwharrie Formation, consisting of low grade felsic and other metavolcanics with interbeds of meta-argillite and metamudstone. Bedrock was not encountered in the excavation, deepened to 21 feet. However, shallow bedrock is expected, as large boulders are common in the woods on the north side of 1311. Soil is a light orange to pink colored, sandy clay, dense and cohesive.

Job History There were two underground gasoline storage tanks at the store; they were owned by H. R. Holt Oil Company and removed 27 August, 1992. The UST closure report is dated 17 September. An October initial response report of further excavation was also submitted. Regular unleaded gasoline is now provided by Candor Oil Company and stored in an above ground 1,000 gallon storage tank with no overfill protection or secondary containment.

The UST removal and extended excavation removed contaminated soil to its lateral extent and demonstrated that contaminated soil remained in place to an unknown depth below the 19 to 21 foot depth of the deepened hole. Contaminated soil was stockpiled across SR 1306 on a cleared tract within several hundred feet of the corner of SR 1311.

III. ACTIVITIES

Three monitor wells were installed on May 13, 1993. The well completion records are enclosed. Locations of the wells are shown on the site map (Figure 2). The wells were completed, developed, and sampled, and relative elevations were surveyed on May 14. A thin layer (1/16") of free product was found in monitor well 1, to the east of the location of the former USTs. For this reason, MW-1 was not sampled.

IV. RESULTS

Drilling the three monitor wells did not reveal the presence of ground water. Only after a day was water found between 10 and 12 feet of the surface. In two of the wells (MW-2&-3) the water level rose above the 15 feet of screen, set in apparently dry holes. As the prior few seasons had been exceptionally wet, it is reasonable to expect water levels will fall back into the screened intervals of wells # 2 & 3 later in the summer.

The ground water surface slopes to the southeast, toward the supply well, as contoured on Figure 3. Elevations of the tops of pipe in the three wells were surveyed relative to a reference point, ground level at the front, northwest corner of the store, which was assigned an elevation of 750 feet. Subtracting depth to water from well elevation gave ground water elevations in the three wells of: MW-1, 736.57'; MW-2, 737.01', and MW-3, 740.14'.

Lithologies seen in auger cuttings, particularly in well 2, suggest that strong anisotropy will be found in permeability. A vein of fresh rock at six feet impeded drilling; deeper, interlayers of light pink and tan cuttings were found. Steeply dipping, strongly planar structure is typical of the slate belt, where the water table aquifer often behaves as if it were semiconfined. Ground water movement is strongly influenced by rock structure relict in the soil.

Laboratory analyses of ground water from MW-2 & MW-3 by EPA method 602 show that both are impacted. The results are as follows.

	Benzene	Ethyl Benzene	Toluene	Xylenes	MTBE	Isopropyl Ether (IPE)
<u>MW-2</u>	455	192	235	1,493	14.0	40.5
<u>MW-3</u>	40.8	48.1	130	157	6.9	18.9

(concentrations in parts per billion)

The distribution of concentrations of benzene and other BTEX compounds in ground water can not be accurately determined from the two analyses now in hand. However, an approximation is shown on Figure 4, an isoconcentration map of benzene and total BTEX.

V. ASSESSMENT & RECOMMENDATIONS

The gasoline contamination of ground water at Callicutt's Store does not pose an immediate threat to human health or safety. There are no basements or underground conduits to collect vapors. No supply wells have contaminated water. In the longer term, however, the plume of contaminated ground water will reach the bored well which supplies the store, trailer, and adjacent house.

Both UST and ground water regulations require a comprehensive site assessment to determine the horizontal and vertical extents of plume migration. The assessment will require at least four more monitor wells to accomplish its purpose. It is recommended that a monitor well not be completed in bedrock at this time, as it might provide a pathway for shallow contaminated ground water to the deeper bedrock aquifer. After remediation has improved shallow ground water quality, a deeper well would be appropriate.

Free product recovery would not be practical if no thicker accumulation than the film seen on water in MW-1 can be found. However, prompt remedial actions could greatly reduce the risk of eventual contamination of the supply well and also reduce total project costs. Not enough is currently known of the site geology or plume morphology to recommend a specific remediation plan. Migration of the plume could be contained by placing a new supply well toward the source area and treating the water by vapor diffusion and carbon filtering in a point of entry system prior to consumption. Continued production from the current well, if not replaced, will draw the contaminant plume to it.

The plume of gasoline contaminated ground water is skewed from the southeast flow direction toward the southwest. This is seen on Figure 4, an isoconcentration map of benzene and of total BTEX (EPA 602 constituents). The structural grain of the Slate Belt metasediments is northeast-southwest and the rock layers are steeply dipping. The anisotropic permeability created by this configuration is forcing ground water to move parallel to water table slope.

Ground water distribution in the unconfined, soil aquifer needs further study. The excavation, even after deepening, did not collect ground water. The bottom of the excavation was at 21 feet in the deepest corner; this is roughly ten feet below the water table found in the monitoring wells. The hole was left open over night. If ground water would perk to the 10' water table seen in the wells, a trench could be used for a ground water sparging, soil vapor extraction system. The next

few wells will provide the information needed to formulate an effective response.

VI. LIMITATIONS & CERTIFICATION

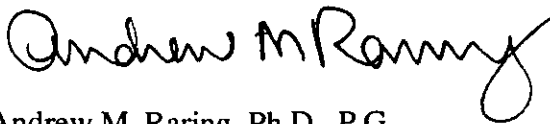
The initial site characterization at the Callicutt Grocery site, Montgomery County, has been performed for the exclusive use of the H. R. Holt Oil Company. Activities were limited to the scope of work and based in part on information provided to us. Applicability of results is limited to the Callicutt Grocery site at the time of our field investigation and limited by the assumption that third party information, including laboratory analytical data, is accurate. Should further information become available to us, we reserve the right to alter our interpretations.

We, the undersigned, certify that this report fairly and completely represents conditions at the site as we found them. We further certify that our work was conducted following regulatory guidance and standard industry practice, to the best of our ability.

Sincerely,



Harvey C. Danner, Jr.
President/Project Manager



Andrew M. Raring, Ph.D., P.G.
Senior Geologist



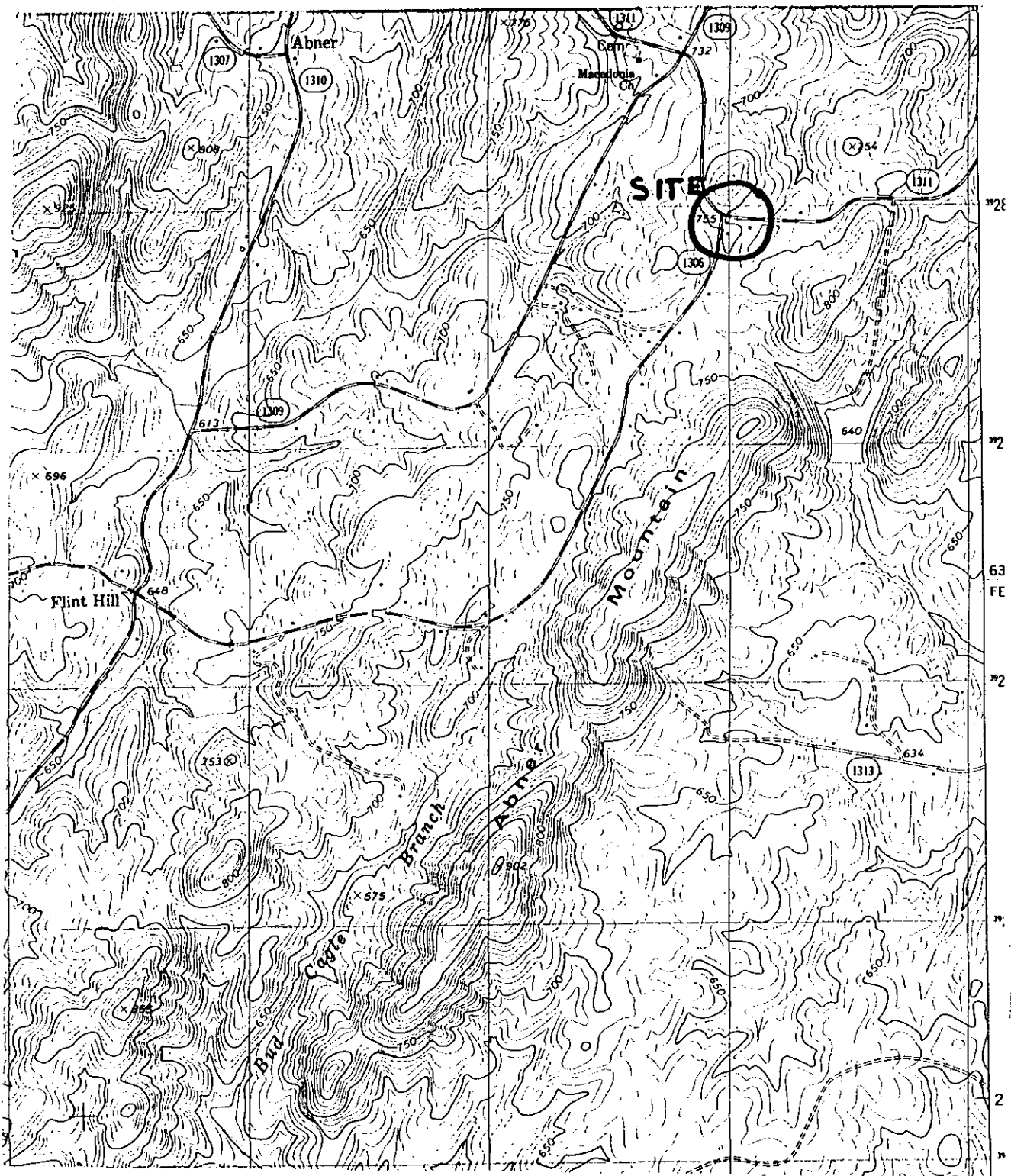


FIGURE 1 - LOCATION MAP *Scale*
 CALLICUT'S STORE

1" = 2000'

State Roads 1306 & 1311, ABNER, Montgomery County

USGS LOVEJOY 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAP

CERTIFOAM SERVICES, Inc.

AMR MAY 1993

FIGURE 3
GROUND WATER SURFACE
CALICUT'S STORE
ABNER, MONTGOMERY COUNTY
 SCALE: 1 inch = 20 feet
 CERTIFOAM SERVICES MAY 1993 AMR

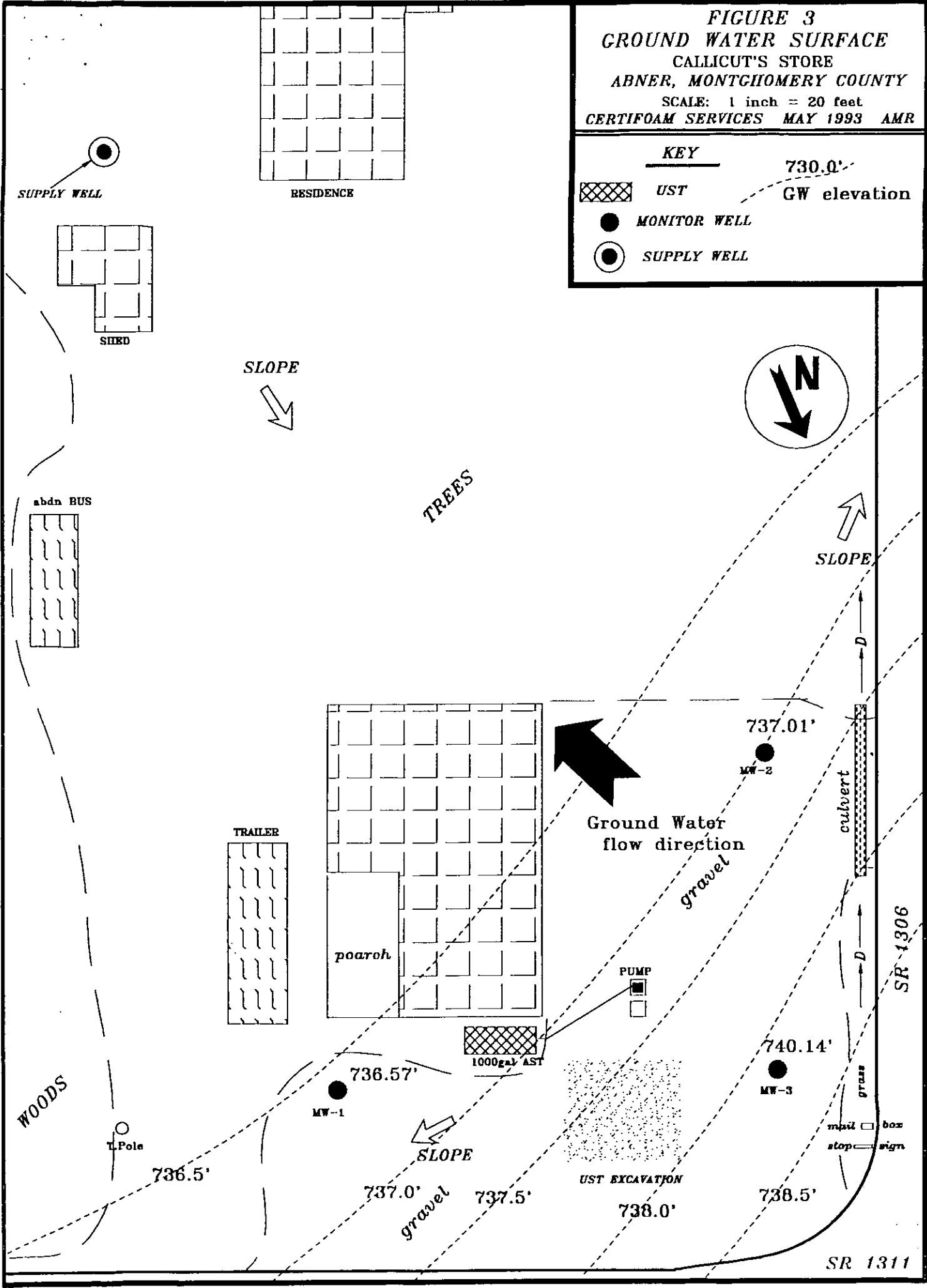
KEY

730.0' GW elevation

▨ UST

● MONITOR WELL




⊙ SUPPLY WELL

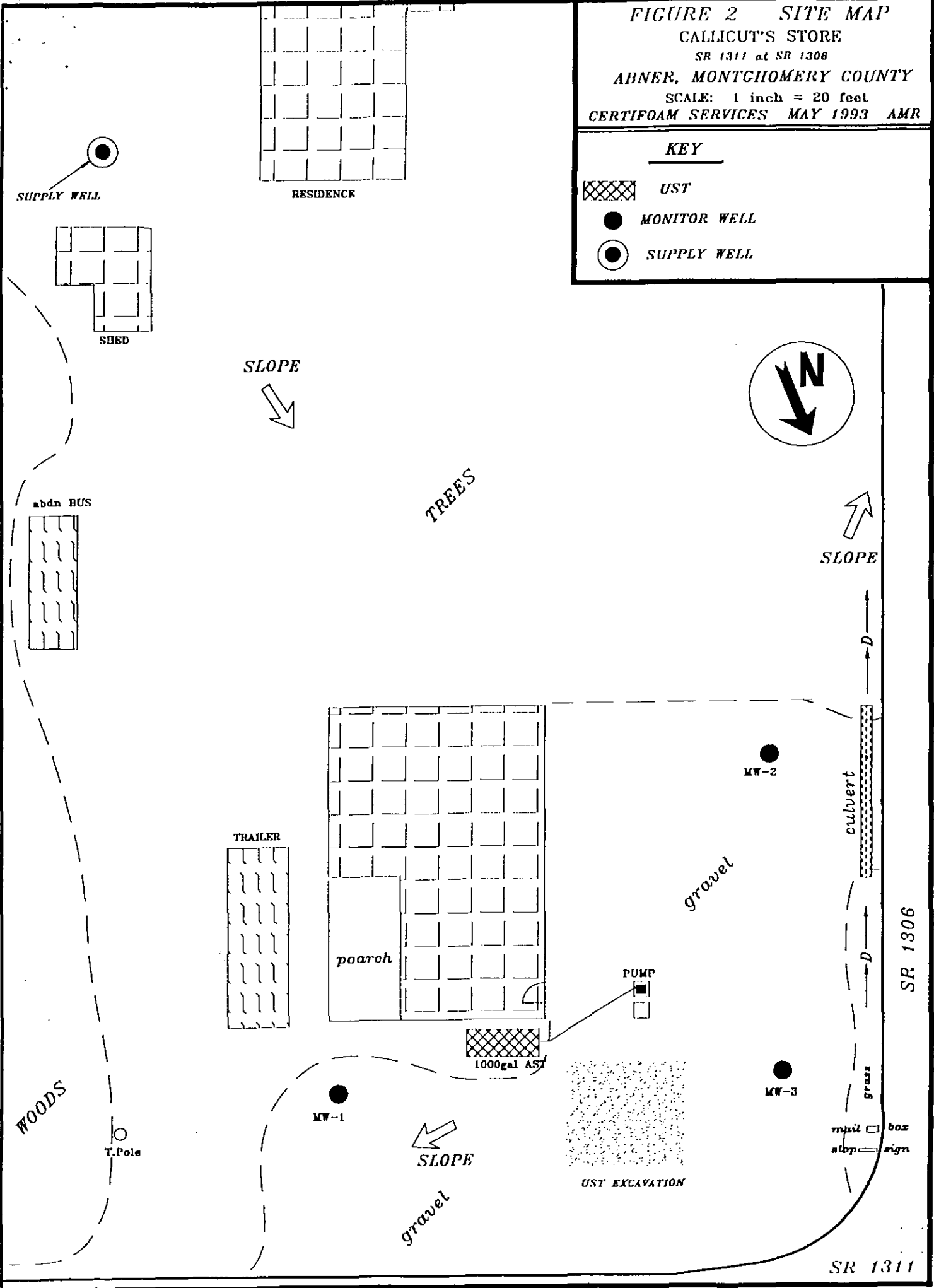


SR 1311

FIGURE 2 SITE MAP
CALLICUT'S STORE
 SR 1311 at SR 1306
 ABNER, MONTGOMERY COUNTY
 SCALE: 1 inch = 20 feet
 CERTIFOAM SERVICES MAY 1993 AMR

KEY




-  UST
-  MONITOR WELL
-  SUPPLY WELL





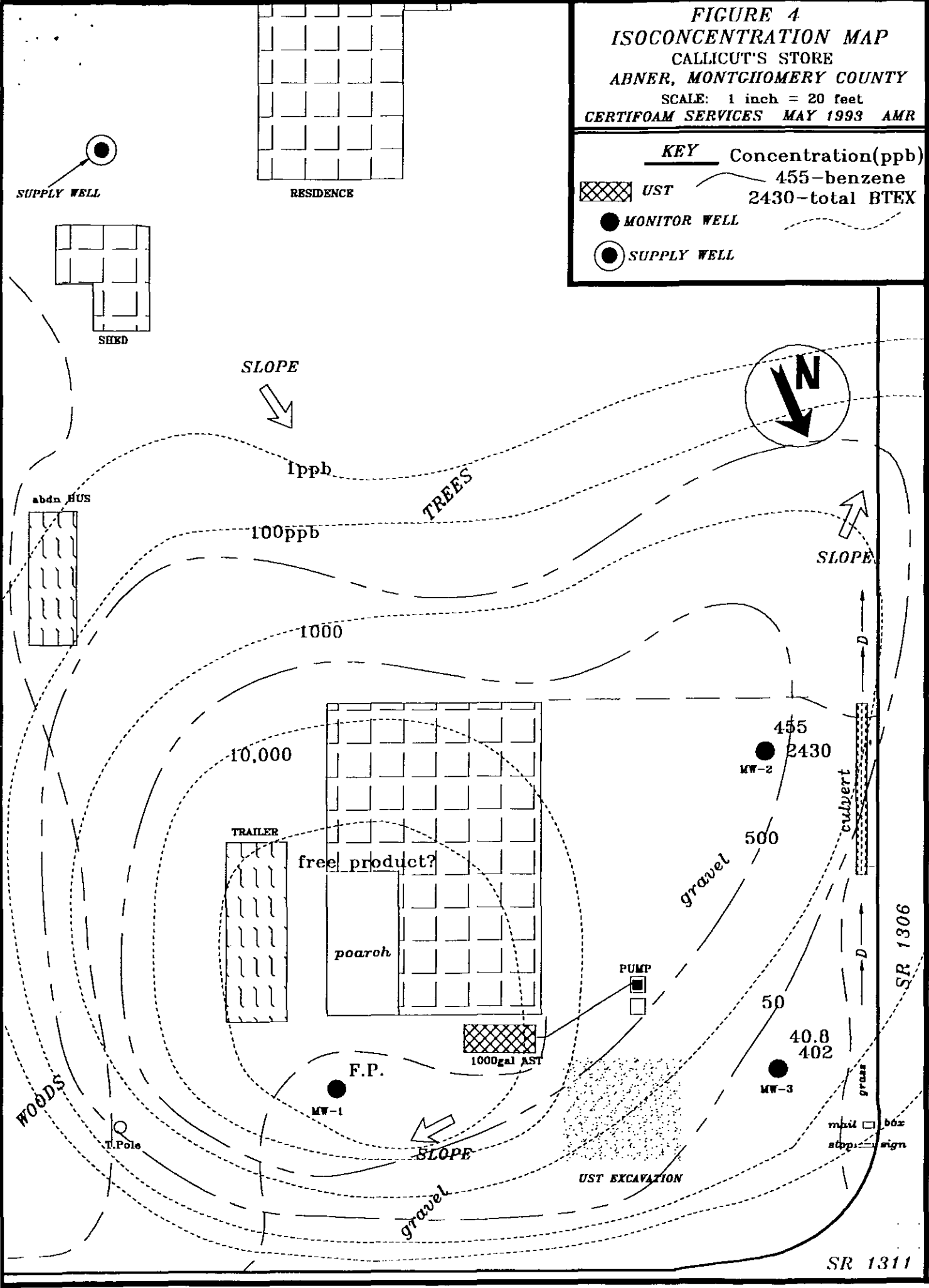
SR 1311

FIGURE 4
ISOCONCENTRATION MAP
CALLICUT'S STORE
ABNER, MONTGOMERY COUNTY
 SCALE: 1 inch = 20 feet
 CERTIFOAM SERVICES MAY 1993 AMR

KEY Concentration(ppb)

 UST
 455-benzene
 2430-total BTEX

 MONITOR WELL
 SUPPLY WELL



FOR OFFICE USE ONLY

Quadr. No. _____ Serial No. _____
 Lat. _____ Long. _____ Pct. _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR CERTIFOAM SERVICES, INC
 DRILLER REGISTRATION NUMBER 1251

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION (Show sketch of the location below)

Highest Town TROY
CORNER OF SR 1311 and SR 1306
 (Road, Community, or Subdivision and Lot No.)

County MONTGOMERY

2. OWNER Dewey Callicutt
 ADDRESS Rt 1 BOX 166
MONTGOMERY STAR NC 27356
 (Street or Route No.)
 City or Town State Zip Code

Depth From _____ To (ft) _____
 DRILLING LOG Formation Description

0 1 GRAVEL

3. DATE DRILLED 5/19/93 USE OF WELL monitoring

1 - 24
Sandy Clay - yellow-orange in upper 5ft, purple white (pink) and tan below. Stiff (cohesive)

4. TOTAL DEPTH 24 CUTTINGS COLLECTED Yes No

5. DOES WELL REPLACE EXISTING WELL? Yes No

6. STATIC WATER LEVEL 10.89 ft. above TOP OF CASING, below TOP OF CASING IS .01 ft. ABOVE LAND SURFACE.

Auger refusal at 24 ft

7. YIELD (gpm) n/a METHOD OF TEST n/a

8. WATER ZONES (depth) UNCONFINED AQUIFER

9. CHLORINATION Type n/a Amount n/a

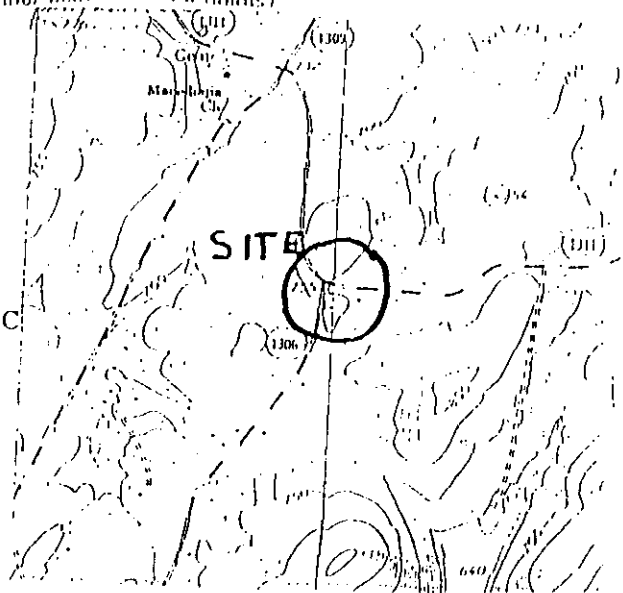
10. CASING:

Depth	Diameter	Wall Thickness or Weight/ft.	Material
From <u>0</u> To <u>9</u> ft.	<u>2"</u>	<u>Sch. 40/PVC</u>	
From _____ To _____ ft.			
From _____ To _____ ft.			

If additional space is needed use back of form.

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points.)



11. GROUT:

Depth	Material	Method
From <u>0</u> To <u>6</u> ft.	<u>Portland</u>	<u>Poured</u>
From <u>6</u> To <u>7</u> ft.	<u>Bentonite</u>	<u>Poured</u>

12. SCREEN:

Depth	Diameter	Slot Size	Material
From <u>9</u> To <u>24</u> ft.	<u>2 in.</u>	<u>.01 in.</u>	<u>Sch. 40/PVC</u>
From _____ To _____ ft.			
From _____ To _____ ft.			

13. GRAVEL PACK:

Depth	Size	Material
From <u>7</u> To <u>24</u> ft.	<u>Coarse</u>	<u>Filter Sand</u>
From _____ To _____ ft.		

14. REMARKS: MW-1

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Andrew M Rainey
 SIGNATURE OF CONTRACTOR OR AGENT

5/20/93
 DATE

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____
 Lat. _____ Long. _____
 Minor Basin _____
 Basin Code _____
 Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR CERTIFOAM SERVICES, INC
 DRILLER REGISTRATION NUMBER 1251

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION (Show sketch of the location below)

Nearest Town TROY
CORNER OF SR 1311 and SR 1306
 (Road, Community, or Subdivision and Lot No.)

County MONTGOMERY

OWNER Dewey Callicutt
 ADDRESS Rt 1 BOX 166
MONTGOMERY STAR NC 27356
 (Street or Route No.)
 City or Town State Zip Code

Depth From To
 DRILLING LOG
 Formation Description

0 8" Gravel
 8" - 30' Sandy clay, yellow-orange in upper 5ft. interbeds of light pink and yellow brown below, with little textural change. Cohesive, appeared dry during drilling. Quartz vein at 6'

3. DATE DRILLED 5/19/93 USE OF WELL monitoring

4. TOTAL DEPTH 30 CUTTINGS COLLECTED Yes No

5. DOES WELL REPLACE EXISTING WELL? Yes No

6. STATIC WATER LEVEL 13.82 FT. Above TOP OF CASING, Below TOP OF CASING IS +01 FT ABOVE LAND SURFACE.

7. YIELD (gpm) n/a METHOD OF TEST n/a

8. WATER ZONES (depth) UNCONFINED AQUIFER

9. CHLORINATION Type n/a Amount n/a

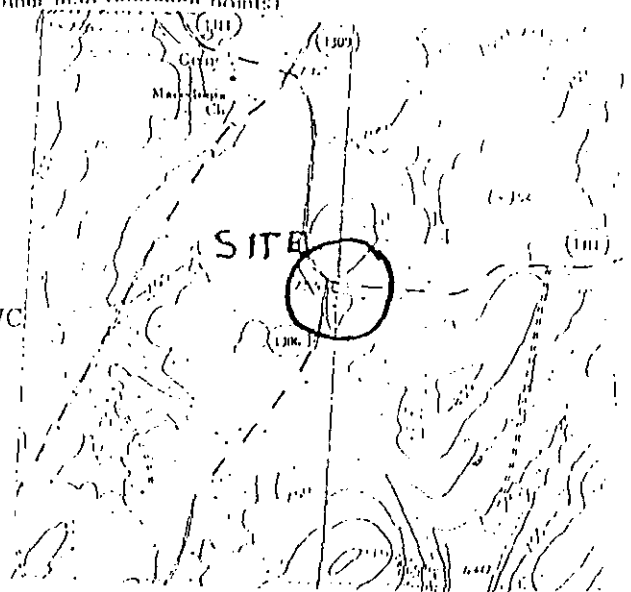
10. CASING

Depth	Diameter	Wall Thickness or Weight/L.F.	Material
From 0 to 15 ft.	2"	Sch. 40/PVC	
From _____ to _____ ft.			
From _____ to _____ ft.			

If additional space is needed use back of form.

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points.)



11. GROUT

Depth	Material	Method
From 0 to 11 ft.	Portland	Poured
From 11 to 13 ft.	Benfonite	Poured

12. SCREEN

Depth	Diameter	Slot Size	Material
From 15 to 30 ft.	2 in.	.01 in.	Sch. 40/PVC
From _____ to _____ ft.			
From _____ to _____ ft.			

13. GRAVEL PACK

Depth	Size	Material
From 13 to 30 ft.	Coarse	Filter Sand
From _____ to _____ ft.		

14. REMARKS MW-2

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Andrew M Roney
 SIGNATURE OF CONTRACTOR OR AGENT

5/20/93
 DATE

FOR OFFICE USE ONLY			
Quad. No.	Serial No.		
Lat.	Long.	Pc.	
Minor Basin			
Basin Code			
Header Ent.		GW-1 Ent.	

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR CERTIFOAM SERVICES, INC
 DRILLER REGISTRATION NUMBER 1251

STATE WELL CONSTRUCTION PERMIT NUMBER: N/A

1. WELL LOCATION (Show sketch of the location below)

Nearest Town: TROY
CORNER OF SR 1311 and SR 1306
 (Road, Community, or Subdivision and Lot No.)

County MONTGOMERY

Depth		FORMATION LOG Formation Description
From	To	

2. OWNER Dewey Callicutt
 ADDRESS Rt 1 BOX 166
 (Street or Route No.)
MONTGOMERY STAR NC 27356
 City or Town State Zip Code

0 - 8"	Gravel
8" - 30'	Sandy clay - yellow-orange in upper 5ft with layers of it pink below. Cohesive. Appeared dry during drilling - perked up over night

3. DATE DRILLED 5/19/93 USE OF WELL monitoring

4. TOTAL DEPTH 30 CUTTINGS COLLECTED Yes No

5. DOES WELL REPLACE EXISTING WELL? Yes No

6. STATIC WATER LEVEL 10.09 FT. above TOP OF CASING,
 below TOP OF CASING IS .01 FT. ABOVE LAND SURFACE.

7. YIELD (gpm): n/a METHOD OF TEST n/a

8. WATER ZONES (depth): UNCONFINED AQUIFER

9. CHLORINATION: Type n/a Amount n/a

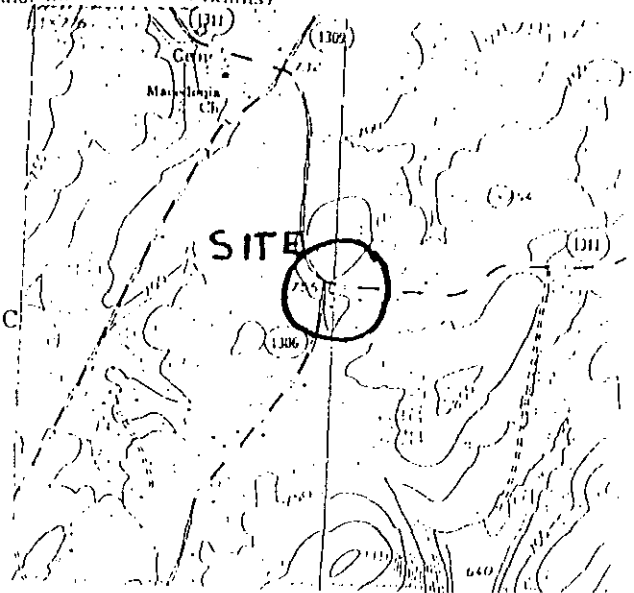
10. CASING:

Depth	Diameter	Wall Thickness or Weight/FT.	Material
From <u>0</u> To <u>15</u> Ft.	<u>2"</u>	<u>Sch. 40/PVC</u>	
From _____ To _____ Ft.			
From _____ To _____ Ft.			

If additional space is needed use back of form.

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)



11. GROUT:

Depth	Material	Method
From <u>0</u> To <u>11</u> Ft.	<u>Portland</u>	<u>Poured</u>
From <u>11</u> To <u>13</u> Ft.	<u>Bentonite</u>	<u>Poured</u>

12. SCREEN:

Depth	Diameter	Slot Size	Material
From <u>15</u> To <u>30</u> Ft.	<u>2</u> in.	<u>.01</u> in.	<u>Sch. 40/PVC</u>
From _____ To _____ Ft.			
From _____ To _____ Ft.			

13. GRAVEL PACK:

Depth	Size	Material
From <u>13</u> To <u>30</u> Ft.	<u>Coarse</u>	<u>Filter Sand</u>
From _____ To _____ Ft.		

14. REMARKS: MW-3

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Andrew M. Rainey
 SIGNATURE OF CONTRACTOR OR AGENT

5/20/93

DATE

FIGURE 2 SITE MAP
 CALLICUT'S STORE
 SR 1311 at SR 1306
 ABNER, MONTGOMERY COUNTY
 SCALE: 1 inch = 20 feet
 CERTIFOAM SERVICES MAY 1993 AMR

KEY



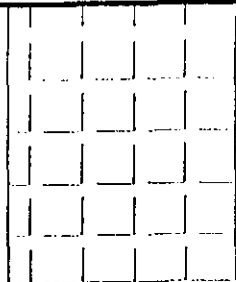
UST



MONITOR WELL



SUPPLY WELL



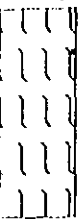
SLOPE



TREES

SLOPE

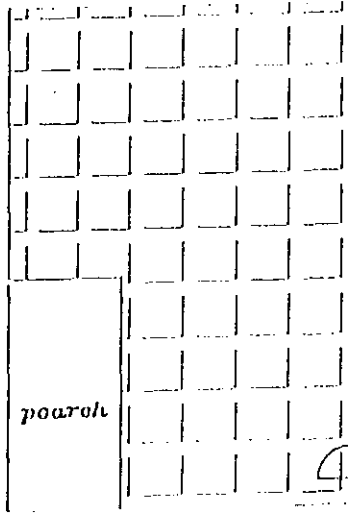
abdn BUS



TRAILER



porch



PUMP



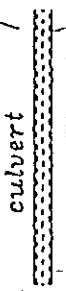
1000gal UST



MW-2



culvert



gravel

SR 1306

MW-3



mbal box
 stop sign

grass

WOODS

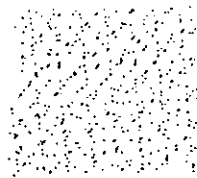
T. Pole



SLOPE

gravel

UST EXCAVATION



SR 1311

FIGURE 2 SITE MAP
 CALLICUT'S STORE
 SR 1311 at SR 1306
 ABNER, MONTGOMERY COUNTY
 SCALE: 1 inch = 20 feet
 CERTIFOAM SERVICES MAY 1993 AMR

KEY



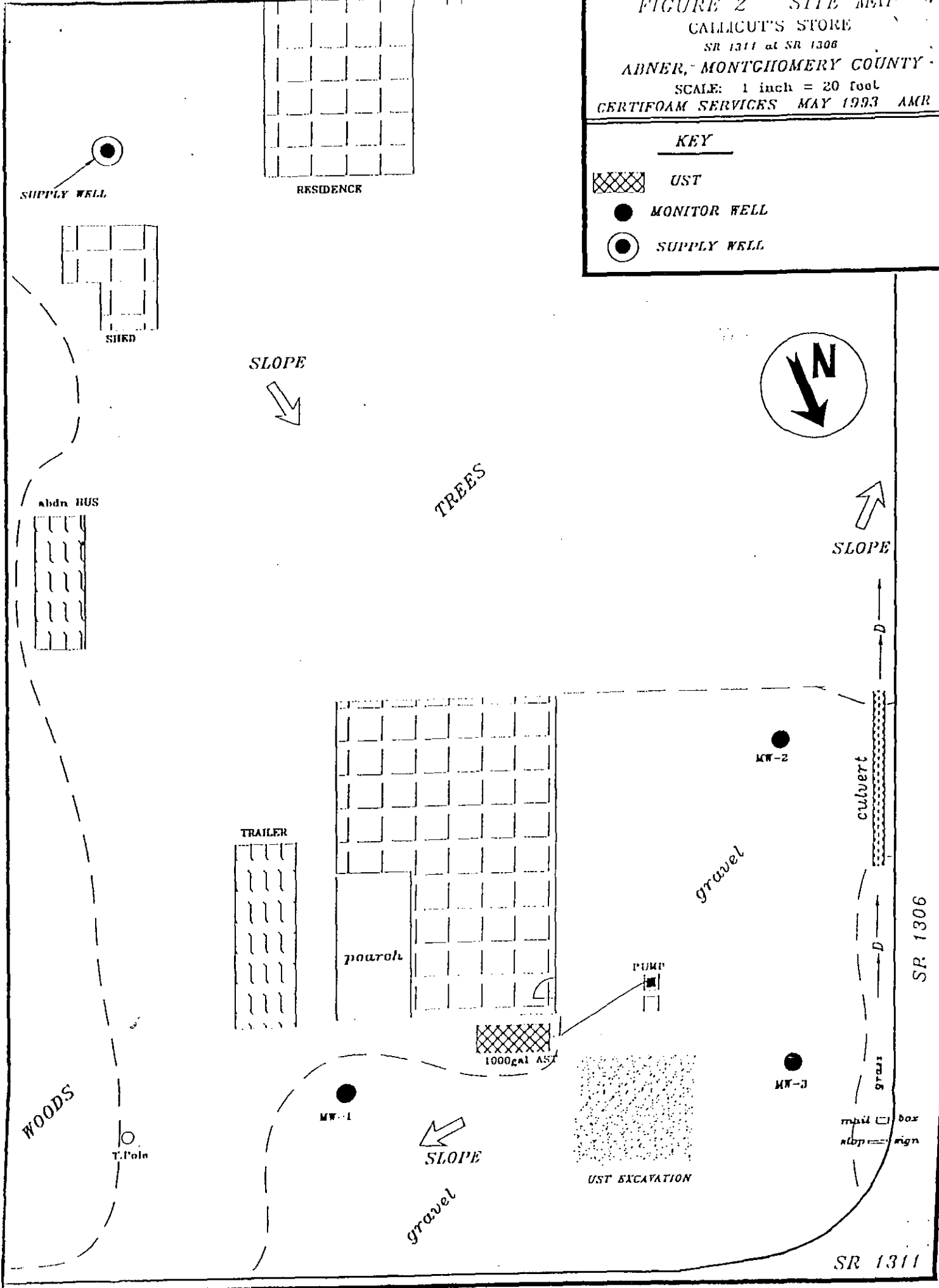
UST



MONITOR WELL



SUPPLY WELL






SR 1311

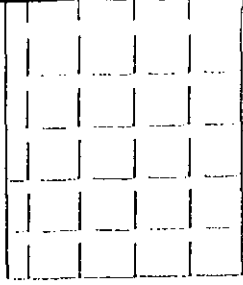
SR 1306

FIGURE 2 SITE MAP
 CALLICUT'S STORE
 SR 1311 at SR 1306
 ABNER, MONTGOMERY COUNTY
 SCALE: 1 inch = 20 feet
 CERTIFOAM SERVICES MAY 1993 AMR

KEY

-  UST
-  MONITOR WELL
-  SUPPLY WELL



 SUPPLY WELL

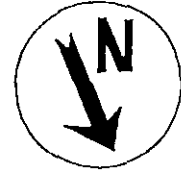


RESIDENCE



SHED

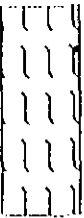
SLOPE




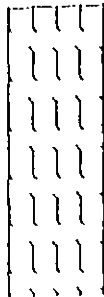
SLOPE


TREES

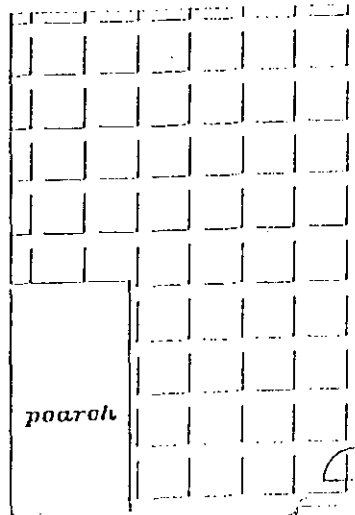
abdn BUS



TRAILER



porch



PUMP



1000gal AST



MW-2



culvert



gravel

MW-3



grass

mbil box sign



WOODS

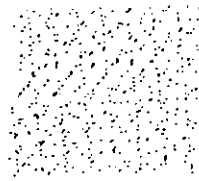
T. Pole



SLOPE

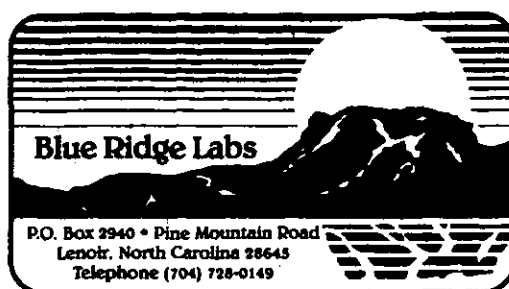

gravel

UST EXCAVATION



SR 1306

SR 1311



CLIENT: Certifoam Services, Inc.
 P. O. Box 5524
 Winston Salem, NC 27113
 Attention: Mr. H. Danner, Jr.

DATE RECEIVED: May 20, 1993

DATE REPORTED: May 28, 1993

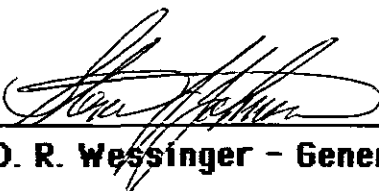
<u>SAMPLE NUMBER</u>	<u>SAMPLE DESCRIPTION</u>
305-1113A	Water; MW-2 for 602 + MTBE.
305-1113B	Water; MW-3 for 602 + MTBE.

<u>PARAMETER</u>	<u>RESULTS</u>	<u>MLQ</u>	<u>DATE ANALYZED</u>
305-1113A - 602			
- Benzene	455	0.5 ug/l	5/25/93
- Chlorobenzene	*	0.5 ug/l	5/25/93
- 1,2-Dichlorobenzene	*	0.5 ug/l	5/25/93
- 1,3-Dichlorobenzene	*	0.5 ug/l	5/25/93
- 1,4-Dichlorobenzene	*	0.5 ug/l	5/25/93
- Ethyl Benzene	192	0.5 ug/l	5/25/93
- Isopropyl Ether (IPE)	40.5	0.5 ug/l	5/25/93
- MTBE	14.0	0.5 ug/l	5/25/93
- Toluene	235	0.5 ug/l	5/25/93
- Xylenes	1,493	0.5 ug/l	5/25/93

* Concentrations are below Minimum Quantification Limit except where noted.

<u>PARAMETER</u>	<u>RESULTS</u>	<u>ML</u>	<u>DATE ANALYZED</u>
305-1113B - 602			
- Benzene	40.8	0.5 ug/l	5/25/93
- Chlorobenzene	*	0.5 ug/l	5/25/93
- 1,2-Dichlorobenzene	*	0.5 ug/l	5/25/93
- 1,3-Dichlorobenzene	*	0.5 ug/l	5/25/93
- 1,4-Dichlorobenzene	*	0.5 ug/l	5/25/93
- Ethyl Benzene	48.1	0.5 ug/l	5/25/93
- Isopropyl Ether (IPE)	18.9	0.5 ug/l	5/25/93
- MTBE	6.9	0.5 ug/l	5/25/93
- Toluene	130	0.5 ug/l	5/25/93
- Xylenes	157	0.5 ug/l	5/25/93

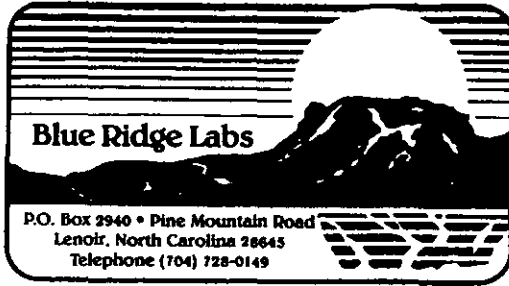
REPORTED BY:



 D. R. Wessinger - General Manager

* Concentrations are below Minimum Quantification Limit except where noted.

NC Laboratory Certificate No. 275.



CERTIF0AM

305-1113

Callhants

CHAIN OF CUSTODY RECORD

SAMPLE ID: MW-2 (A) & (B)
TYPE OF SAMPLE: Water VOA (2)
LOCATION: Callhants
DATE SAMPLED: 5/14 TIME SAMPLED: 1:45
TESTS REQUESTED: 602 + MTBE

SAMPLE ID: MW-3 (A) & (B)
TYPE OF SAMPLE: Water 2 VOAs
LOCATION: Callhants Store
DATE SAMPLED: 5/14 TIME SAMPLED: 2:15
TESTS REQUESTED: 602 + MTBE

PRESERVATIVE: None
SIGNATURE: Andrew Raming

PRESERVATIVE: None
SIGNATURE: Andrew Raming

SAMPLE ID: _____
TYPE OF SAMPLE: _____
LOCATION: _____
DATE SAMPLED: _____ TIME SAMPLED: _____
TESTS REQUESTED: _____

SAMPLE ID: _____
TYPE OF SAMPLE: _____
LOCATION: _____
DATE SAMPLED: _____ TIME SAMPLED: _____
TESTS REQUESTED: _____

PRESERVATIVE: _____
SIGNATURE: _____

PRESERVATIVE: _____
SIGNATURE: _____

SAMPLE ID: _____
TYPE OF SAMPLE: _____
LOCATION: _____
DATE SAMPLED: _____ TIME SAMPLED: _____
TESTS REQUESTED: _____

SAMPLE ID: _____
TYPE OF SAMPLE: _____
LOCATION: _____
DATE SAMPLED: _____ TIME SAMPLED: _____
TESTS REQUESTED: _____

PRESERVATIVE: _____
SIGNATURE: _____

PRESERVATIVE: _____
SIGNATURE: _____

RELINQUISHED BY:
Andrew Raming
Anthony Medina

DATE
5/14
5/20/93/1113

RELINQUISHED TO:
Anthony Medina
David M...