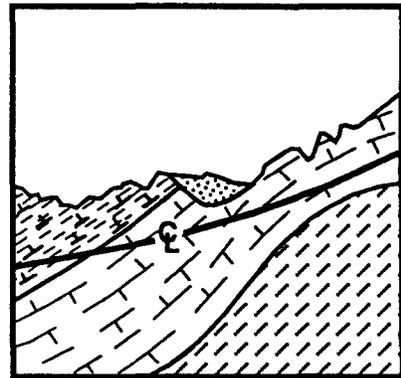
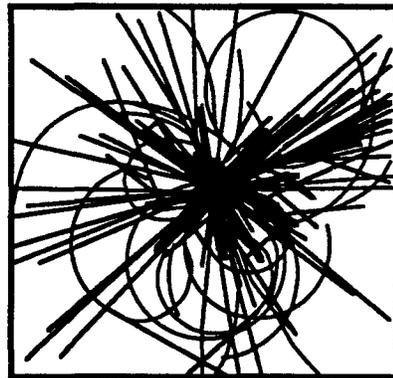


# Groundwater Monitoring Wells at the Superconducting Super Collider Site May 1989 to May 1990



Prepared by:  **The Earth Technology Corporation**  
Long Beach, California

Prepared for: **RTK** a joint venture  
Oakland, California

## **GROUNDWATER MONITORING WELLS**

This report presents general information on the location, access, and construction of the 31 monitoring wells constructed between May 1989 and May 1990 as part of the Startup Geotechnical Studies at the Superconducting Super Collider (SSC) site. The report was prepared to provide a succinct summary of the information pertinent to continuing monitoring studies. Figure 1 depicts the location of the wells relative to the proposed tunnel.

The wells were constructed for:

- ongoing acquisition of groundwater-level data
- potential future water sample collection for chemical analysis

The summary is organized to give easy reference to individual monitoring wells. All wells have an alphanumeric character name; they are ordered by alpha character first, then within each alpha, by numeric character. The alpha prefixes are divided into 3 groups, indicating the general location of the well as follows:

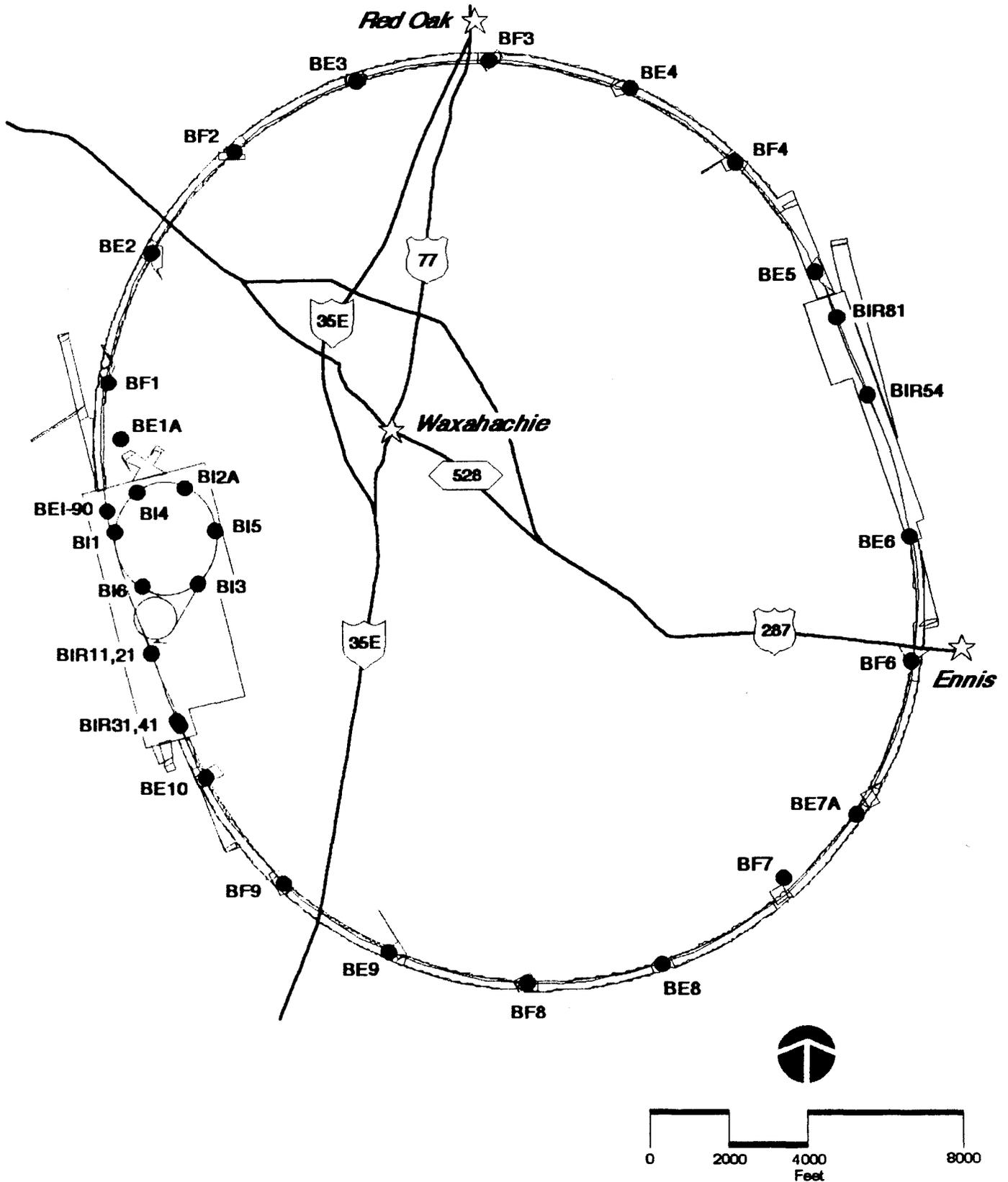
- Wells with "BE" or "BF" prefixes are located at shaft sites
- Wells with "BI" prefixes are located along the High Energy Booster alignment
- Wells with "BIR" designation are located at the interaction halls.

For each well the report includes two pages. The first page contains the following information:

- location coordinates and elevation
- land ownership and access expiration date
- access route description
- well specifications
- general monitoring data
- location map
- surface configuration diagram

The second page depicts an "as built" diagram of the well.

FIGURE 1 LOCATION MAP



**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING:	253,843 ft
EASTING:	2,171,122 ft
SURFACE ELEVATION:	763.1 ft

**SITE DESIGNATOR:**

BE 1-90

**BUILT BY:**

Southwestern Laboratories

**LAND OWNER:**

E. R. Morris  
P.O. Box 726, Balch Springs, TX 75180

PHONE: 214-285-5240

**LESSEE:**

Mr. Roy Crownover

PHONE: 214-937-1968

ACCESS COMPENSATION EXPIRATION DATE February 28, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter from Hoyt Road 0.2 mile north of State Route 1446. Follow path 0.3 mile through grassy field (owner: Robert S. Strauss, 1700 Pacific Ave., Dallas, TX 214/968-2800).

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	257.4 ft
SCREENED INTERVAL ELEVATION:	533.1-553.1 ft
LITHOLOGY SCREENED:	EAGLE FORD
MEASURING POINT ELEVATION:	766.0 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

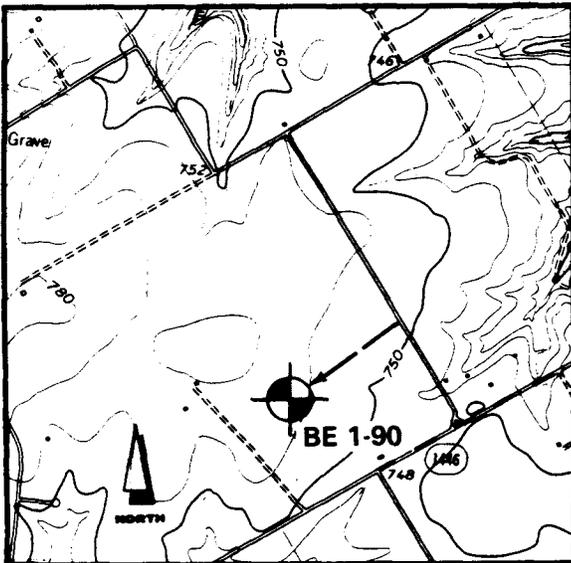
03/22/90 Elevation: 557.5 ft MSL  
04/10/90 Elevation: 560.4 ft MSL  
06/27/90 Elevation: 562.1 ft MSL

**LAST MONITORED**

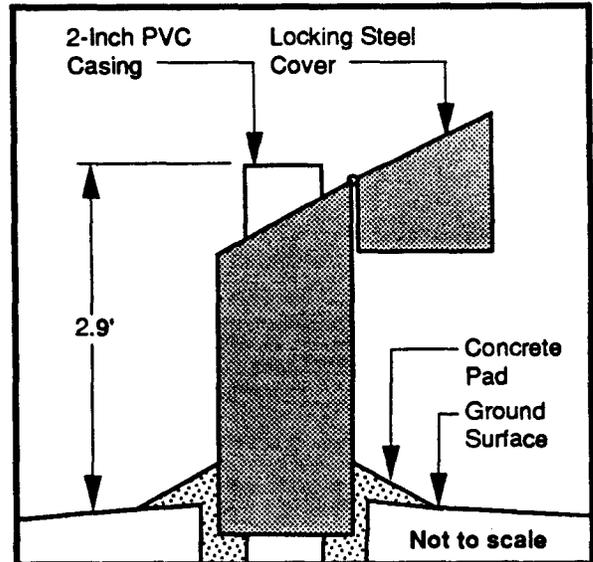
DATE:	6/27/90
WATER LEVEL:	562.1 ft
STATIC WATER LEVEL:	N/A
OTHER:	

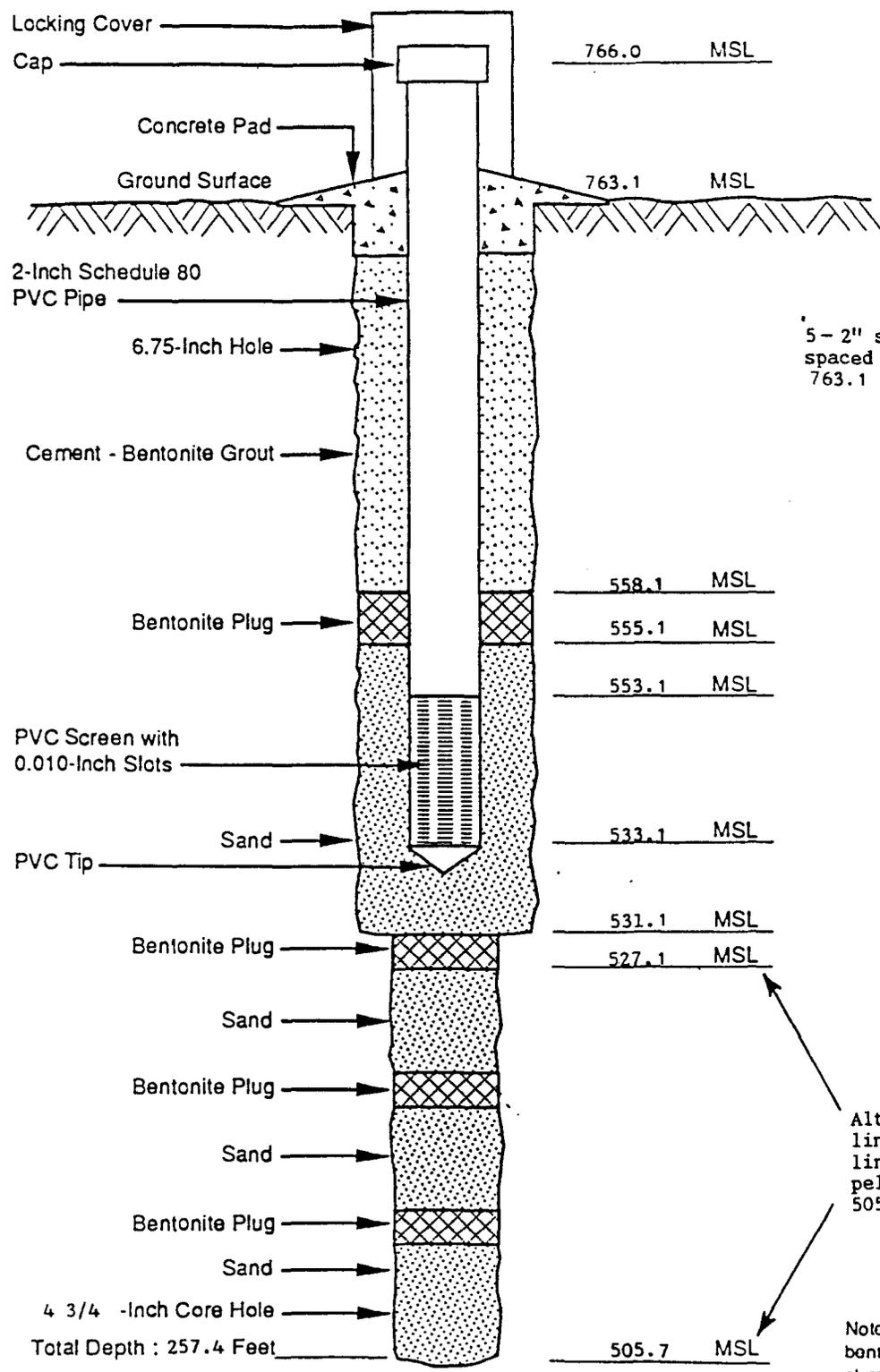
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





5-2" stainless steel contralizers spaced 40'-50' apart between 763.1 and 533.1

Alternating layers of ±10 linear feet of sand and ±2 linear feet of bentonite pellets between 527.1 and 505.7

Note: All the backfill materials (sand, bentonite pellets and cement/ bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BE1-90  
 Location: N 253,843  
 E 2,171,122  
 Date(s) Installed: 2-15-90  
 Well Construction  
 Supervising Geologist: Dale Brown  
 Approved By: Shawn Wood

Date: 5-11-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.  
 BE1-90

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 261,637 ft  
 EASTING: 2,172,257 ft  
 SURFACE ELEVATION: 679.0 ft

**SITE DESIGNATOR:** BE-1A

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

Frances Wyatt Dillard  
 619 North Rogers, Waxahachie, TX

PHONE: 214-937-2231

LESSEE: (see comments also)

James L. Curry Subleasee: Terry Sitz

PHONE: Curry: 214-937-1859  
 Sitz: 214-937-5588

ACCESS COMPENSATION EXPIRATION DATE: August 2, 1990

**AUTHORIZED ACCESS ROUTE:**

Enter dirt road from Cambell Road, 0.7 mile east of Hoyt Road. Follow trail 0.9 mile to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 140.0 ft  
 SCREENED INTERVAL ELEVATION: 540.0-550.0 ft  
 LITHOLOGY SCREENED: EAGLE FORD  
 MEASURING POINT ELEVATION: 681.2 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 4 INCH  
 LOCK / KEY: MASTER/2601

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

02/17/90 Elevation: 583.2 ft MSL  
 06/27/90 Elevation: 588.3 ft MSL

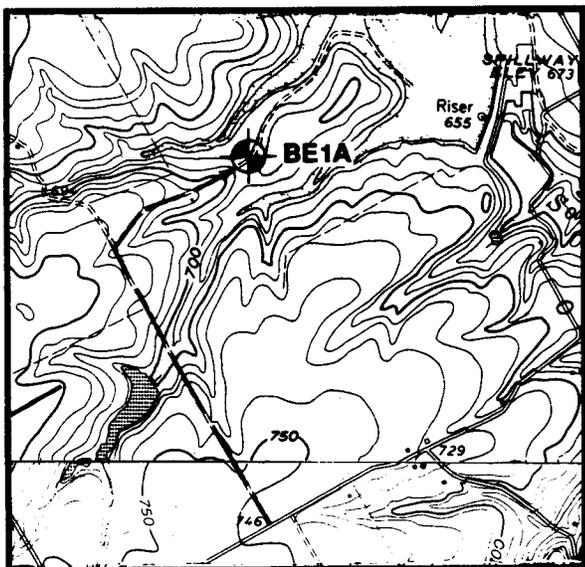
**LAST MONITORED**

DATE: 6/27/90  
 WATER LEVEL: 588.3 ft  
 STATIC WATER LEVEL: N/A  
 OTHER:

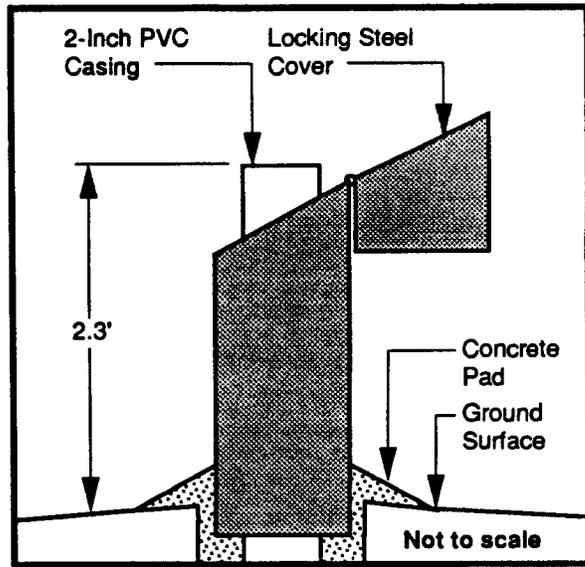
**COMMENTS:**

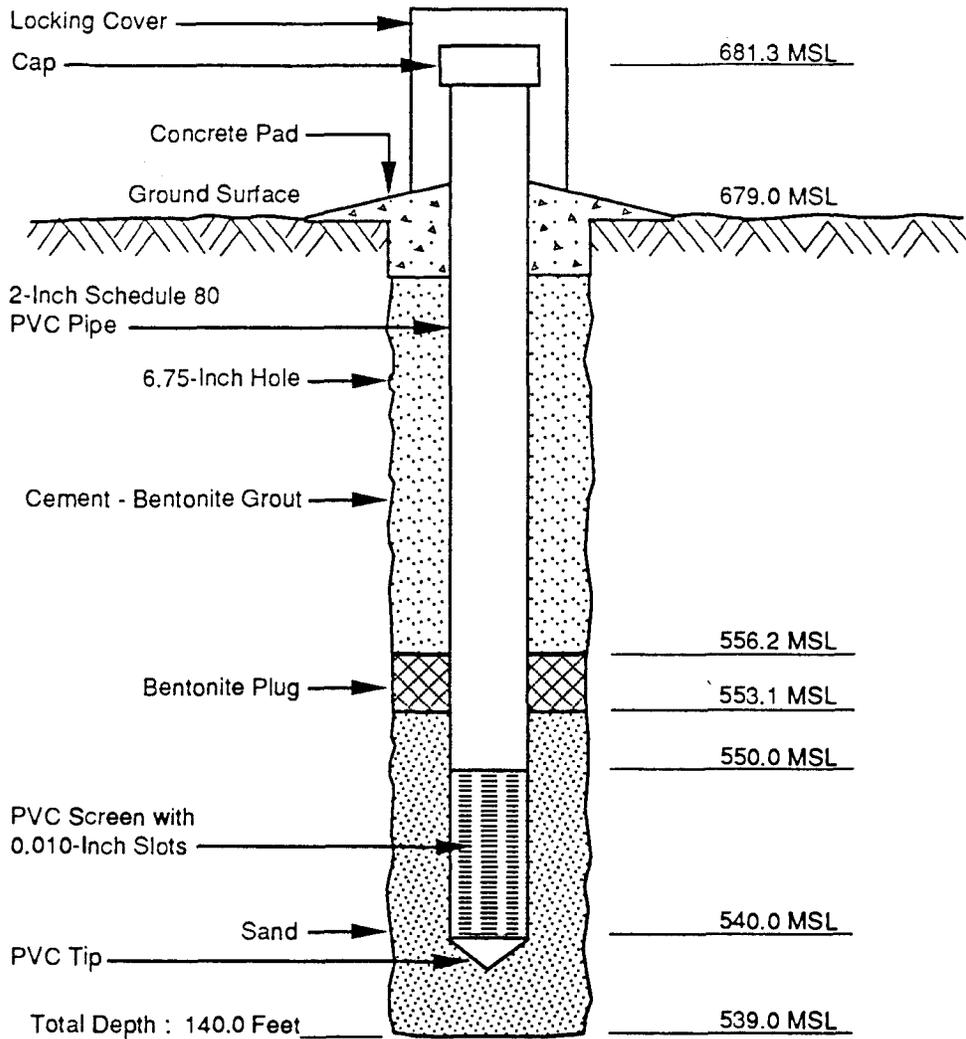
James Curry, 117 Dartmouth, Waxahachie, TX 75165  
 Terry Sitz, Rt. 5, Box 222, Waxahachie, TX 75165

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

**Note:**

- 1) Observation Well installed in Boring offset 10' West of BE 1 location.
- 2) Placement depths of backfill materials were confirmed by manual measurement. Cement/ bentonite slurry was placed by tremie.

**Boring: BE 1A**  
**Location: N 261,647**  
**E 2,172,257**  
**Date(s) Installed: 6/1/89**  
**Well Construction**  
**Supervising Geologist: Judy Hamilton**  
**Approved By: W.D. Flanigan**

**Date: 5/15/90**

**Observation Well**  
**No. BE 1A**

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 267,430 ft  
 EASTING: 2,171,093 ft  
 SURFACE ELEVATION: 727.7 ft

**SITE DESIGNATOR:**

BF 1

**BUILT BY:**

Southwestern Laboratories

**LAND OWNER:**

Meadow's Foundation, Inc., Elton Brigham, Mgr.  
 2922 Swiss Ave. Dallas, TX 75204

PHONE: 214-826-5746

**LESSEE:**

PHONE: 214-775-2752

ACCESS COMPENSATION EXPIRATION DATE: March 29, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter from Lone Elm Road through locked gate at corner. Turn right and follow fence line until gap, proceed through gap and follow existing trail to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 221.0 ft  
 SCREENED INTERVAL ELEVATION: 533.6-553.6 ft  
 LITHOLOGY SCREENED: EAGLE FORD  
 MEASURING POINT ELEVATION: 730.6 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 2 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

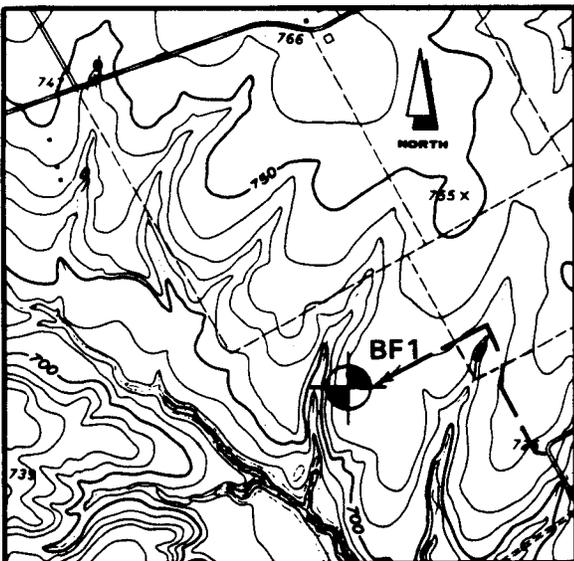
04/10/90 Elevation: 572.2 ft MSL  
 06/27/90 Elevation: 610.5 ft MSL

**LAST MONITORED**

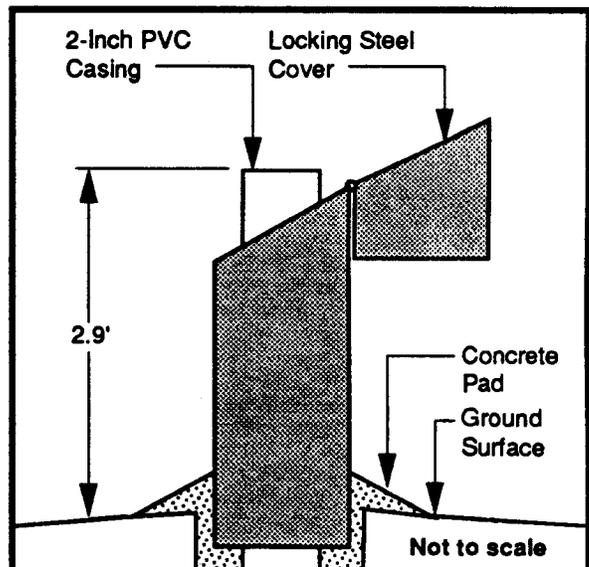
DATE: 6/27/90  
 WATER LEVEL: 610.5 ft  
 STATIC WATER LEVEL: N/A  
 OTHER:

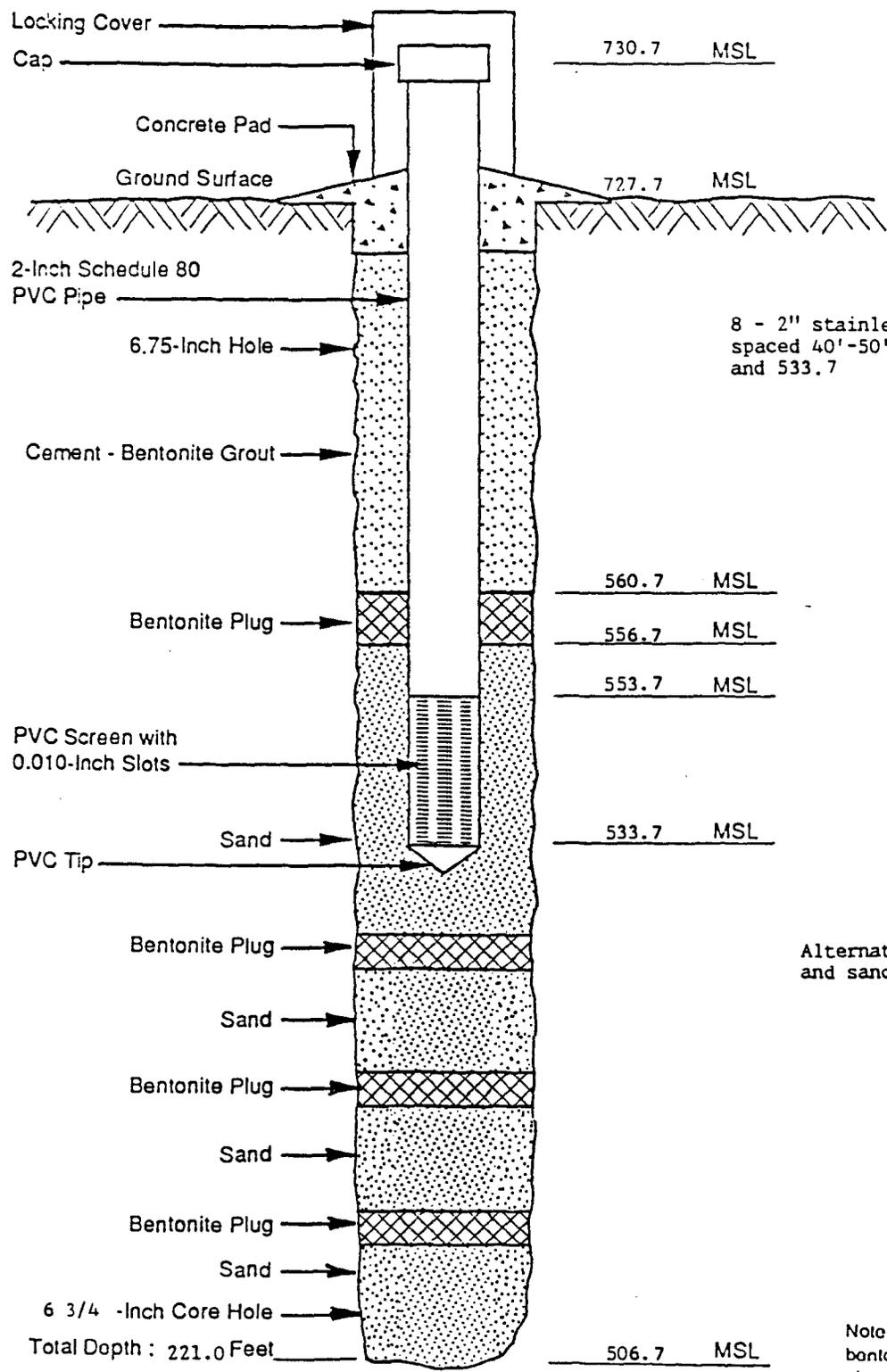
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





8 - 2" stainless steel centralizers spaced 40'-50' apart between 727.7 and 533.7

Alternating layers of bentonite and sand between 533.7 and 506.7

Note: All the backfill materials (sand, bentonite pellets and cement/bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BF 1  
 Location: N 267,430  
 E 2,171,093  
 Date(s) Installed: 3-16-90  
 Well Construction  
 Supervising Geologist: Alan Dover  
 Approved By: Shawn Wood

Date: 6-4-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.

5/90

BF 1

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 281,050 ft  
 EASTING: 2,175,700 ft  
 SURFACE ELEVATION: 674.1 ft

**SITE DESIGNATOR:** BE 2

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

Jack and Sue May  
 537 Honeysuckle Trail, Midlothian, TX 76065  
 LESSEE:

PHONE: 214-937-5348

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: January 24, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter driveway off Honeysuckle Road, follow fence northward to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 211.0 ft  
 SCREENED INTERVAL ELEVATION: 523.1-543.1 ft  
 LITHOLOGY SCREENED: AUSTIN/EAGLE  
 MEASURING POINT ELEVATION: 675.7 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 2 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

03/22/90 Elevation: 619.2 ft MSL  
 04/11/90 Elevation: 619.2 ft MSL  
 06/27/90 Elevation: 618.2 ft MSL

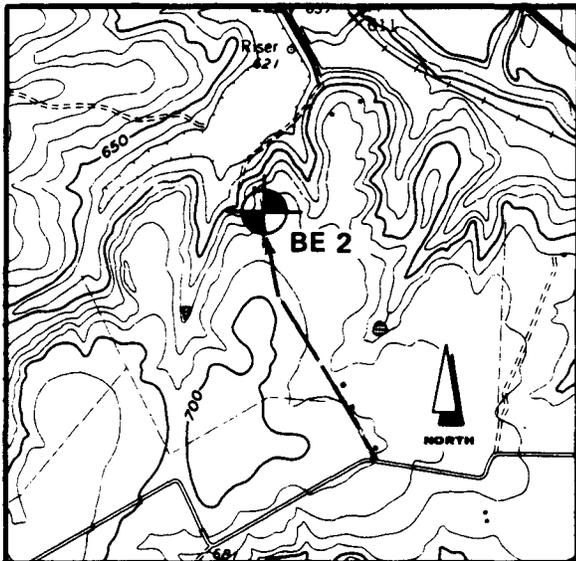
**LAST MONITORED**

DATE: 6/27/90  
 WATER LEVEL: 618.2 ft  
 STATIC WATER LEVEL: 619.2 ft  
 OTHER:

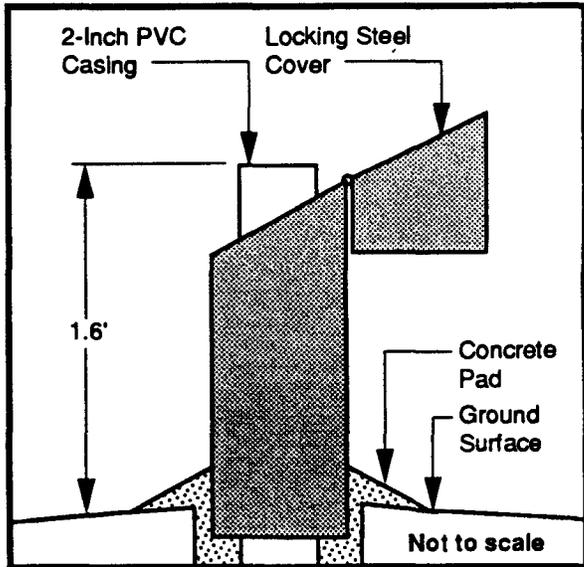
**COMMENTS:**

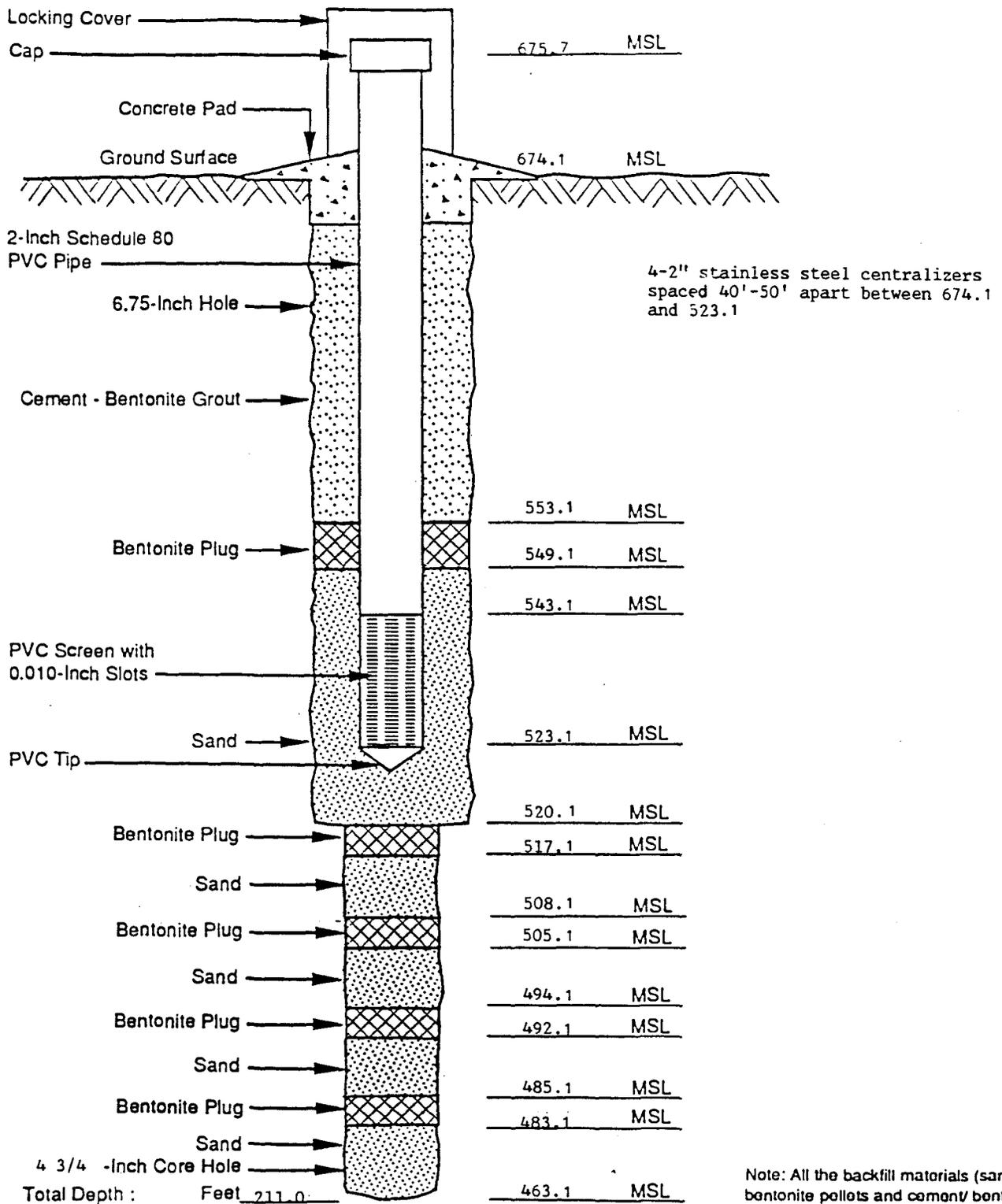
Contact owner for alternate access route for heavy equipment.

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Boring: BE 2  
 Location: N 281,050  
 E 2,175,700  
 Date(s) Installed: 1-4-90  
 Well Construction  
 Supervising Geologist: Mike Granger  
 Approved By: Shawn Wood

Date: 5-14-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.

5/90

BE 2

Figure

**MONITORING WELL DESCRIPTION**

<b>SITE COORDINATES:</b>		<b>SITE DESIGNATOR:</b>	BF 2
NORTHING:	291,450 ft	BUILT BY:	Southwestern Laboratories
EASTING:	2,184,280 ft		
SURFACE ELEVATION:	683.1 ft		

<b>LAND OWNER:</b>		PHONE:	214-360-1700
VR Joint Venture, Bill Glass, Mgr. 8235 Douglas, Suite 1300, Dallas, TX 75225			
LESSEE:		PHONE:	
ACCESS COMPENSATION EXPIRATION DATE		January 24, 1991	

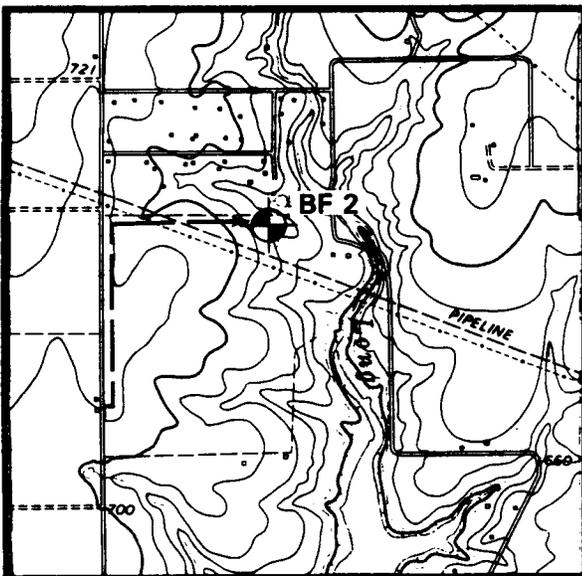
<b>AUTHORIZED ACCESS ROUTE:</b>	Enter from Long Branch Road at gate opposite two story house (2.0 mile north of Highway 287). Continue north along fence line, turn east at fence corner, proceed to well.
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<b>WELL SPECIFICATIONS:</b>	(also see the attached as-built diagram)
TOTAL DEPTH:	208.0 ft
SCREENED INTERVAL ELEVATION:	500.0-520.0 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	684.5 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

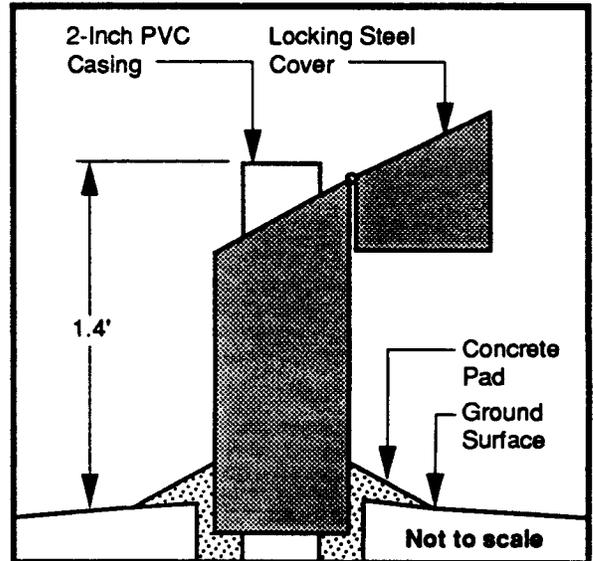
<b>GENERAL WATER LEVELS:</b>	<b>LAST MONITORED</b>
JANUARY/90 - APRIL/90	DATE: 6/27/90
03/22/90 Elevation: 670.5 ft MSL	WATER LEVEL: 671.1 ft
04/10/90 Elevation: 670.8 ft MSL	STATIC WATER LEVEL: 671.1 ft
06/27/90 Elevation: 671.1 ft MSL	OTHER:

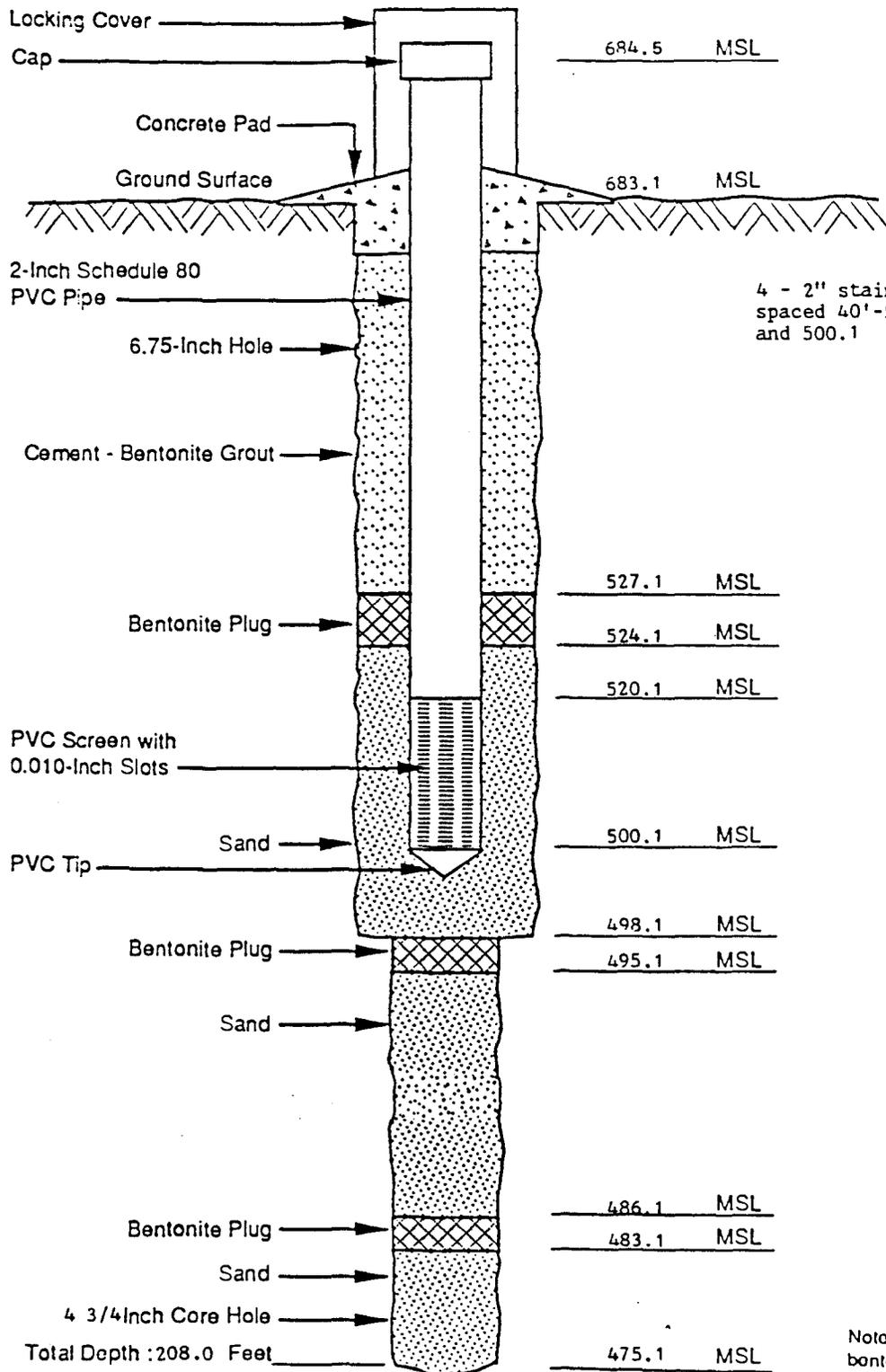
<b>COMMENTS:</b>	
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**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





4 - 2" stainless steel containers spaced 40'-50' apart between 683.1 and 500.1

Note: All the backfill materials (sand, bentonite pellets and cement/ bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BF 2  
 Location: N 291,450  
 E 2,184,280  
 Date(s) Installed: 1/10-1/11/90  
 Well Construction  
 Supervising Geologist: Mike Granger  
 Approved By: Shawn Wood

Date: 6-4-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.

5'00

BF 2

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 298,700 ft  
 EASTING: 2,197,111 ft  
 SURFACE ELEVATION: 679.5 ft

**SITE DESIGNATOR:** BE 3

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

Colleyville, N.V. and Denise N.V., Tom Atkins, Attorney in Fact  
 #7 Country Club Place, Waxahachie, TX 75165

PHONE: 214-991-3400

**LESSEE:**

Edwin Spaniel, Rte. 6, Box 85, Waxahachie, TX 75165

PHONE: 214-937-8048

ACCESS COMPENSATION EXPIRATION DATE: December 1, 1990 (land owner only)

**AUTHORIZED ACCESS ROUTE:**

Enter from dirt road at north side of field. Well is in field about 0.1 mile south of road.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	266.9 ft
SCREENED INTERVAL ELEVATION:	503.5-523.5 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	680.0 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

04/03/90 Water level bailed to 507.5 ft MSL  
 04/11/90 Elevation: 638.5 ft MSL

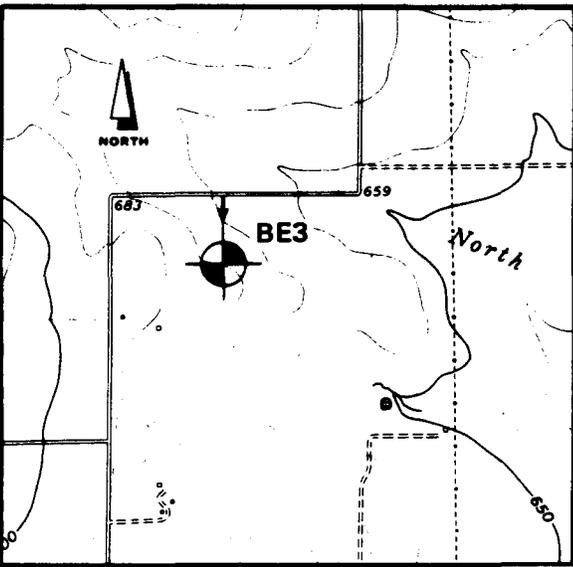
**LAST MONITORED**

DATE:	6/25/90
WATER LEVEL:	667.1 ft
STATIC WATER LEVEL:	N/A
OTHER:	

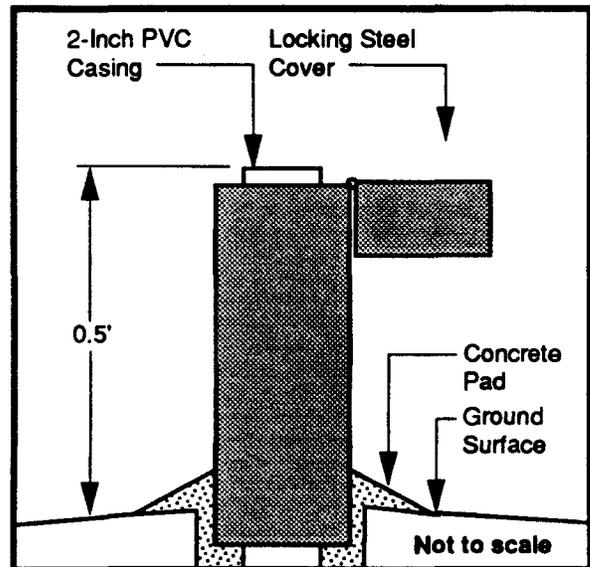
**COMMENTS:**

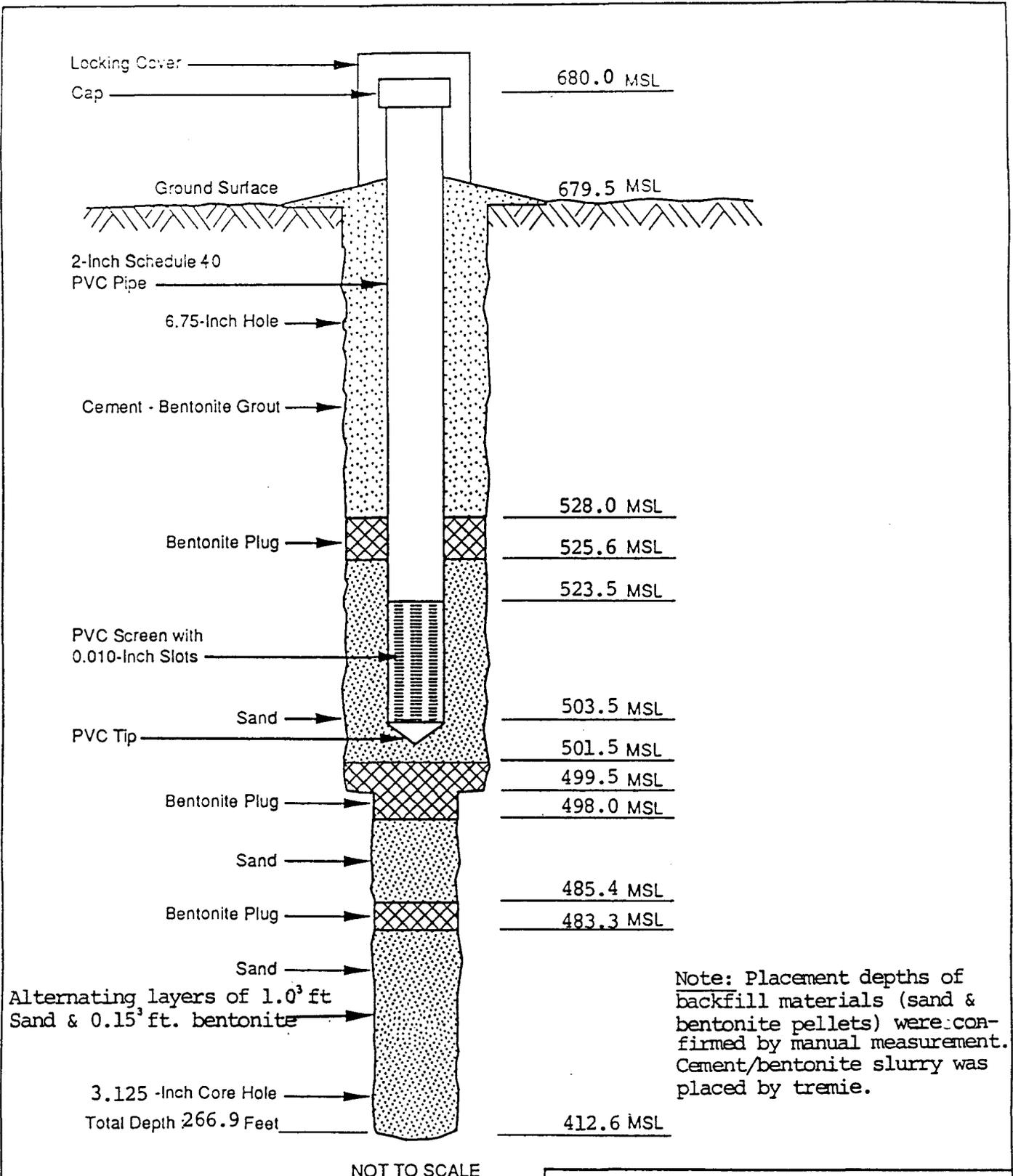
Lessee access compensation payable in advance and beginning March 29, 1991.

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Boring: BE 3  
 Location: N 298,700  
 E 2,197,111  
 Date(s) Installed: 3/15/90-3/22/90  
 Well Construction  
 Supervising Geologist: W.D. Flanigan  
 Approved By: Scott Lesikar Date: 5/15/90

Observation Well  
 No. BE 3

5/90 Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 300,776 ft  
 EASTING: 2,211,027 ft  
 SURFACE ELEVATION: 548.4 ft

**SITE DESIGNATOR:** BF 3

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

M.C. Wammack  
 Route 5, Red Oak, TX 75154  
 LESSEE:

PHONE: 214-576-2111

PHONE:

ACCESS COMPENSATION EXPIRATION DATE February 15, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter locked gate from State Route 342 about 0.5 mile northeast of Highway 77. Follow existing gravel drive to well (north of barn).

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	208.0 ft
SCREENED INTERVAL ELEVATION:	365.4-385.4 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	550.1 ft Center of pressure gauge
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

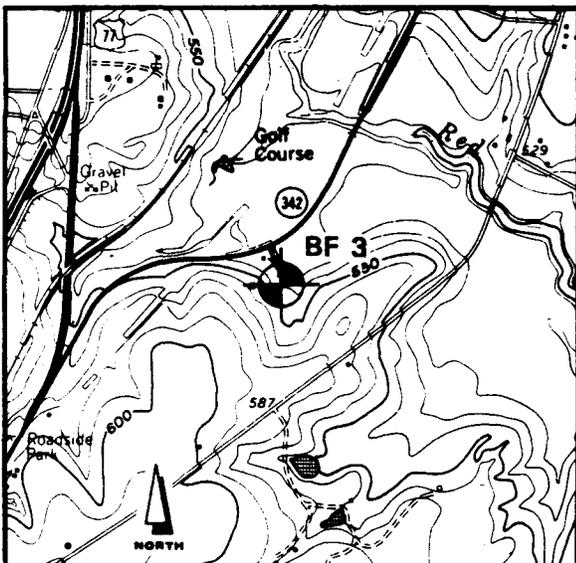
04/11/90 Elevation:	575.2 ft MSL
04/13/90 Elevation:	575.4 ft MSL
06/25/90 Elevation:	583.2 ft MSL

**LAST MONITORED**

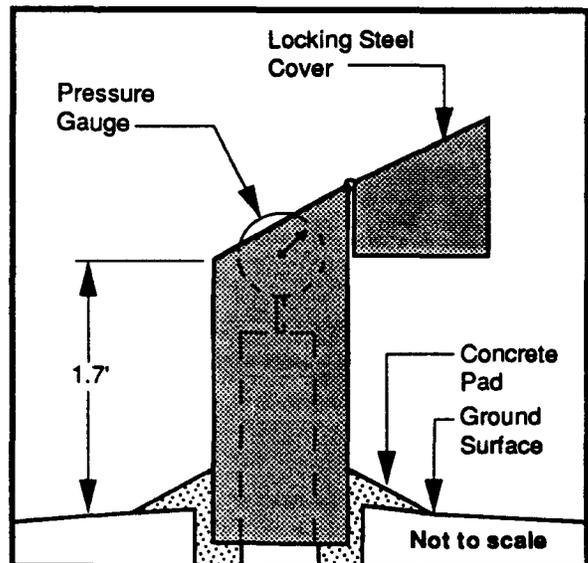
DATE:	4/13/90
WATER LEVEL:	583.2 ft
STATIC WATER LEVEL:	N/A
OTHER:	

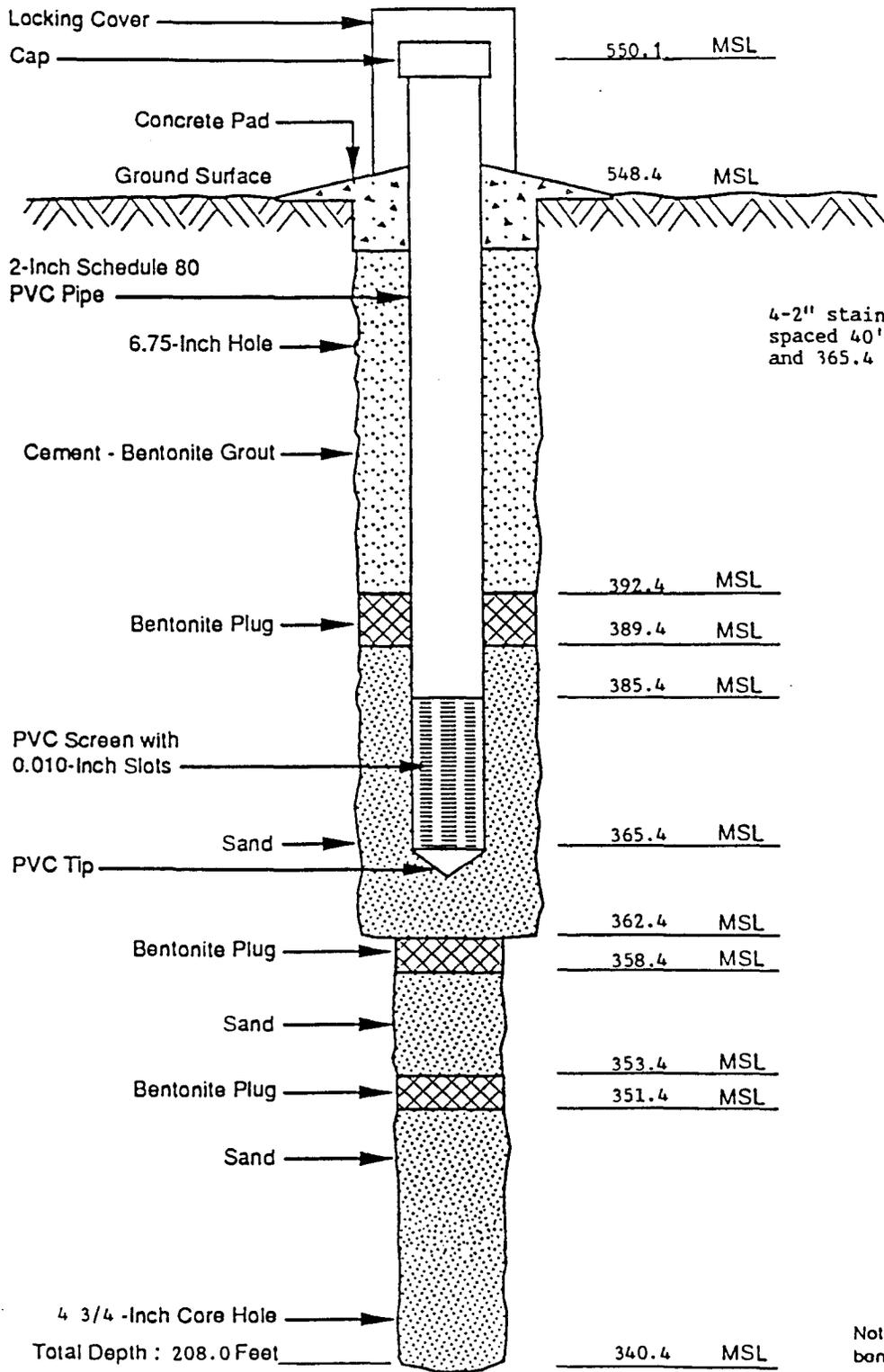
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





4-2" stainless steel centralizers spaced 40'-50' apart between 548.4 and 365.4

Note: All the backfill materials (sand, bentonite pellets and cement/bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BF 3  
 Location: N 300,776  
 E 2,211,027  
 Date(s) Installed: 2-10-90  
 Well Construction  
 Supervising Geologist: Mike Granger  
 Approved By: Shawn Wood

Date: 5-14-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.  
 BF 3

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 297,829 ft  
 EASTING: 2,225,784 ft  
 SURFACE ELEVATION: 549.8 ft

**SITE DESIGNATOR:** BE 4

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

Joe and Willie Dobkins  
 Route 2, Box 251A, Waxahachie, TX 75165

PHONE: 214-576-0233

**LESSEE:**

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: February 15, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter from Pritchett Road through wide iron gate 0.2 mile north of Bell's Chapel Road. Follow fence line on north side of pasture for 0.25 mile, turn right and continue to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	287.0 ft
SCREENED INTERVAL ELEVATION:	287.8-307.8 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	551.6 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 inch
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

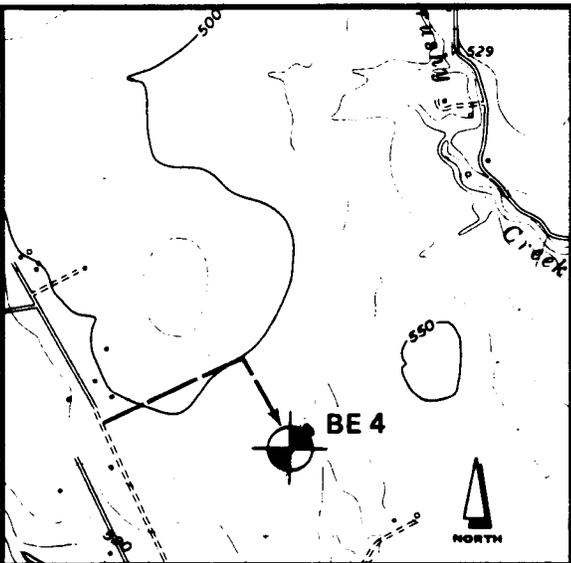
03/22/90 Elevation:	329.7 ft MSL
04/09/90 Elevation:	349.9 ft MSL
06/25/90 Elevation:	410.8 ft MSL

**LAST MONITORED**

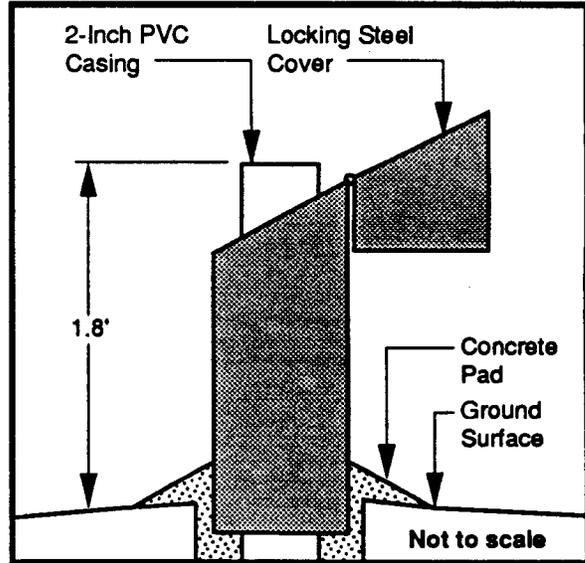
DATE:	6/25/90
WATER LEVEL:	410.3 ft
STATIC WATER LEVEL:	N/A
OTHER:	

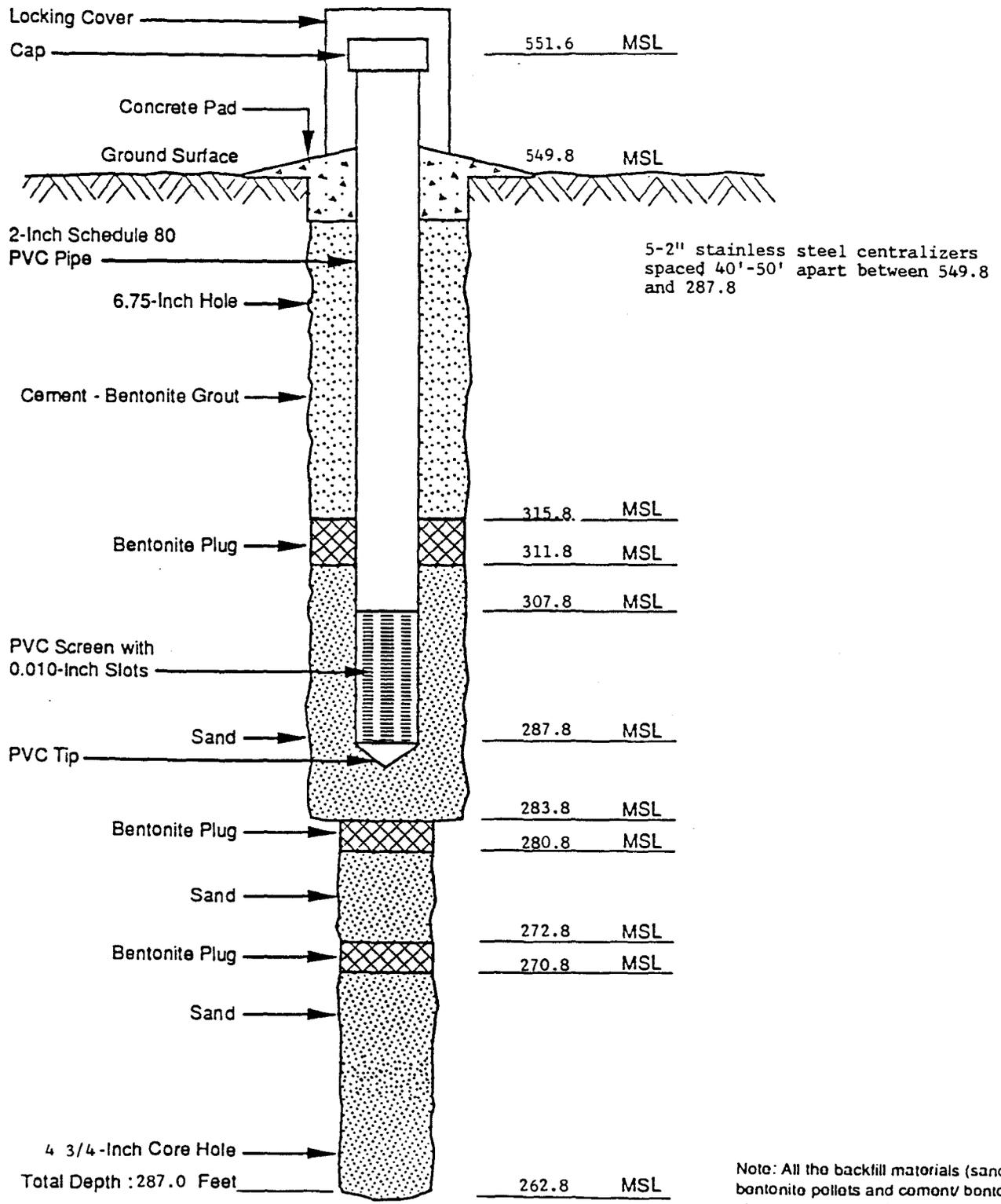
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Boring: BE 4  
 Location: N 297,829  
 E 2,225,784  
 Date(s) Installed: 1-25-90  
 Well Construction  
 Supervising Geologist: Mike Granger  
 Approved By: Shawn Wood  
 Date: 5-14-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.  
 BE 4  
 Figure

**MONITORING WELL DESCRIPTION**

<b>SITE COORDINATES:</b>		<b>SITE DESIGNATOR:</b>	BF 4
NORTHING:	290,327 ft	BUILT BY:	Southwestern Laboratories
EASTING:	2,236,629 ft		
SURFACE ELEVATION:	501.7 ft		

<b>LAND OWNER:</b>	Wade Farrar, Jr., 8218 S. Jackson St., Littleton, Colorado 80122, and R.L. Farrar, 10220 Mapleridge, Dallas, TX 75228	PHONE:	Wade Farrar: 303-741-4736 R.L. Farrar: 214-341-3181
LESSEE:	Tim Harper, Box 129, Palmer, TX 75152	PHONE:	214-449-3541
ACCESS COMPENSATION EXPIRATION DATE	Agreement negotiations ongoing		

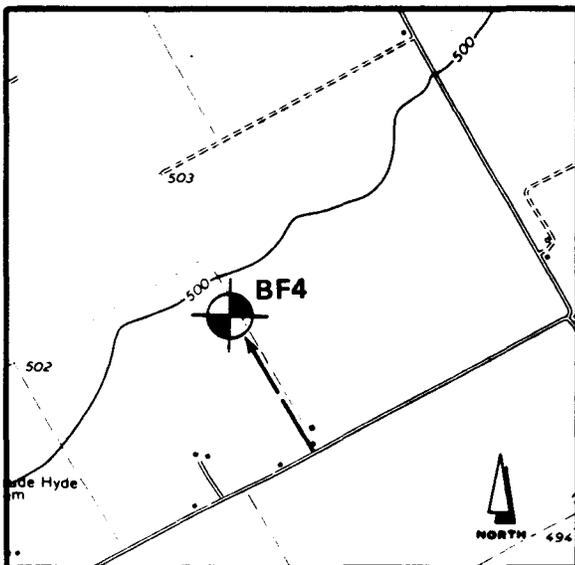
<b>AUTHORIZED ACCESS ROUTE:</b>	Enter from Farrar Road 0.5 mile east of State Route 813. Well is in field, about 0.3 mile northwest of trailer.
---------------------------------	---

<b>WELL SPECIFICATIONS:</b>	(also see the attached as-built diagram)
TOTAL DEPTH:	310.0 ft
SCREENED INTERVAL ELEVATION:	217.7-237.7 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	504.3
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

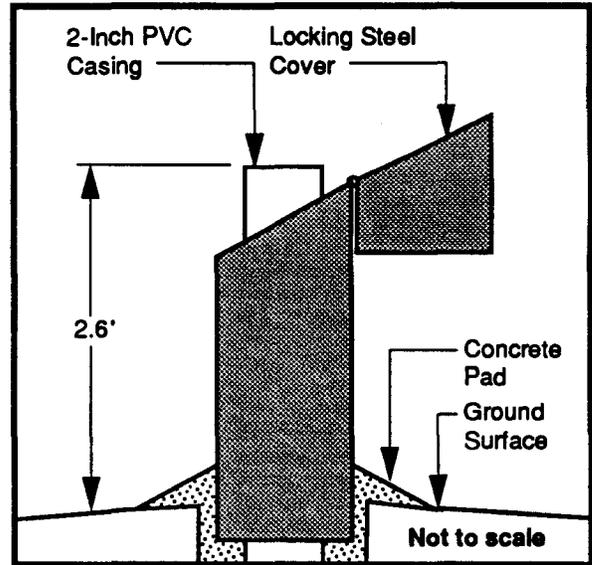
<b>GENERAL WATER LEVELS:</b>	<b>LAST MONITORED</b>
JANUARY/90 - APRIL/90	DATE: 6/25/90
06/25/90 Elevation: 497.6 ft MSL	WATER LEVEL: 497.6 ft
	STATIC WATER LEVEL: N/A
	OTHER:

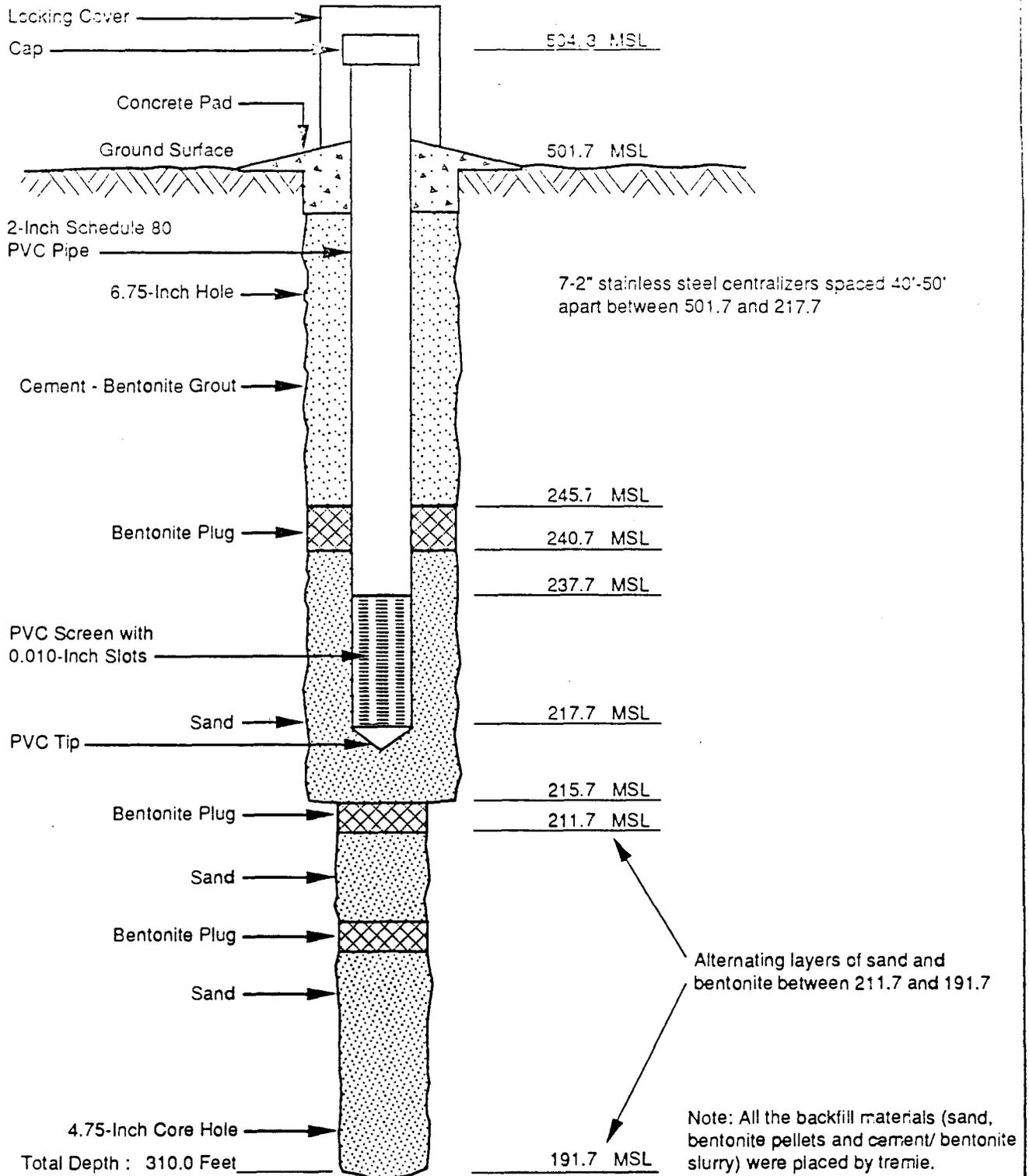
<b>COMMENTS:</b>	
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**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Boring: BF 4  
 Location: N 290,237  
 E 2,236,629  
 Date(s) Installed: 4/16/90  
 Well Construction  
 Supervising Geologist: Alan Dover  
 Approved By: Shawn Wood

Date: 5/22/90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No. BF 4

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 278,967 ft  
 EASTING: 2,245,051 ft  
 SURFACE ELEVATION: 462.5 ft

**SITE DESIGNATOR:** BE 5

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

T.M. Harper, Jr.  
 P.O. Box 129, Palmer, TX 75152

PHONE: 214-449-3143 home  
 214-449-3131 office

**LESSEE:**

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: March 26, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter dirt field road on east side of Rutherford Road, 0.7 mile north of State Route 878. Continue 0.9 mile east through gate. Turn right at north side of gate and follow trail across swale to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 335.0 ft  
 SCREENED INTERVAL ELEVATION: 156.5-176.5 ft  
 LITHOLOGY SCREENED: AUSTIN  
 MEASURING POINT ELEVATION: 463.9 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 2 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

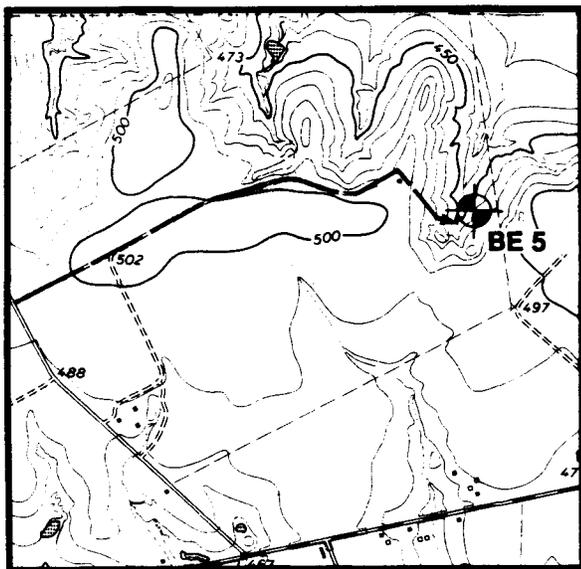
03/22/90 Elevation: 275.1 ft MSL  
 04/07/90 Elevation: 304.8 ft MSL  
 06/25/90 Elevation: 389.4 ft MSL

**LAST MONITORED**

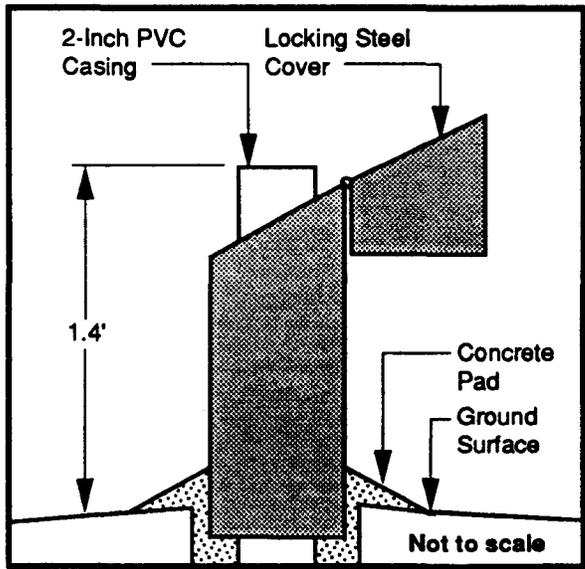
DATE: 6/25/90  
 WATER LEVEL: 389.4 ft  
 STATIC WATER LEVEL: N/A  
 OTHER:

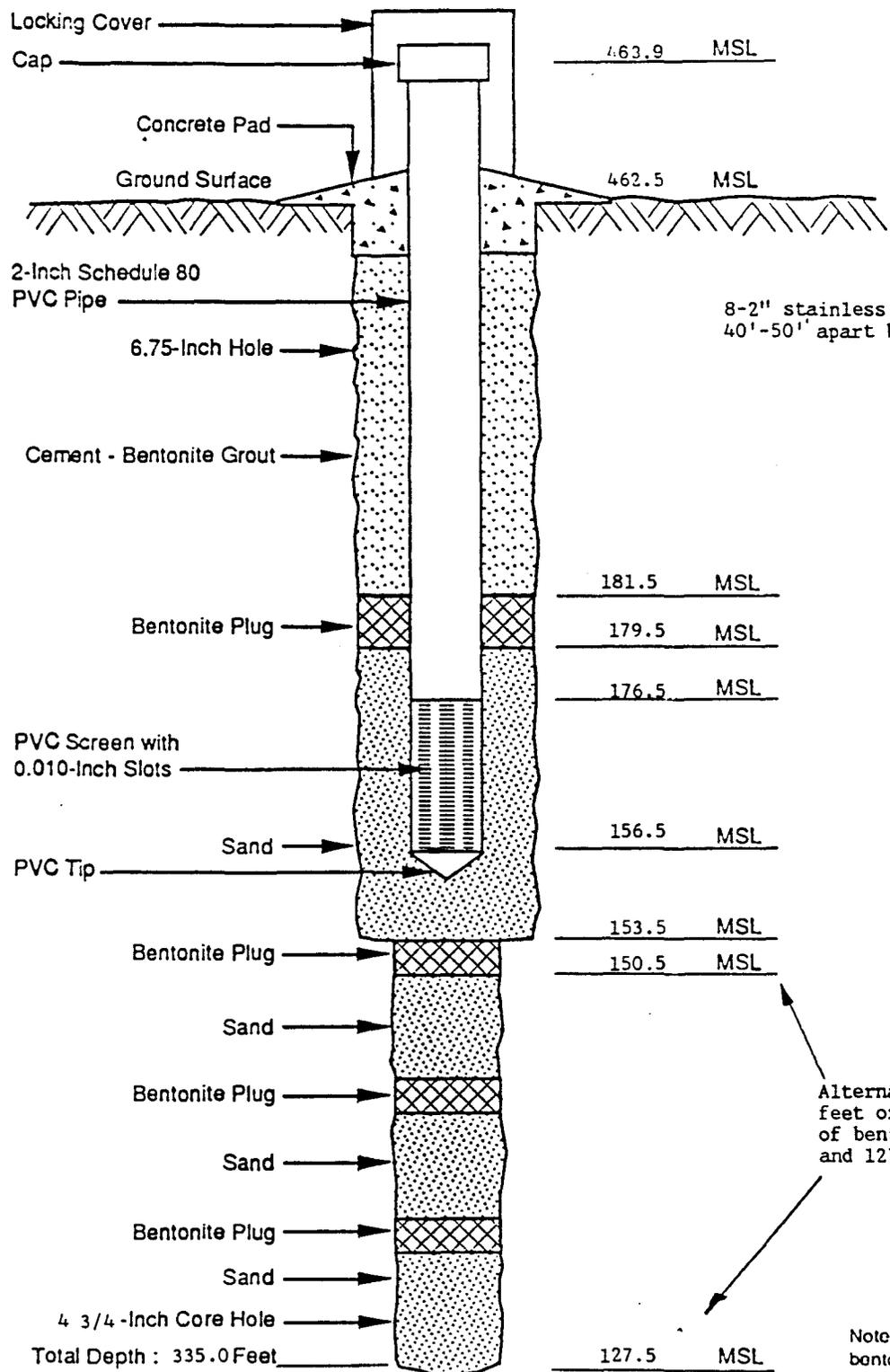
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Boring: BE 5  
 Location: N 278,967  
 E 2,245,051  
 Date(s) Installed: 2-9/2-13-90  
 Well Construction  
 Supervising Geologist: Shawn Wood  
 Approved By: Shawn Wood

Date: 5-14-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.

5/90

BE 5

Figure

**MONITORING WELL DESCRIPTION**

<b>SITE COORDINATES:</b>	<b>SITE DESIGNATOR:</b>	BE 6
NORTHING:	251,280 ft.	BUILT BY:
EASTING:	2,255,023 ft	Mason-Johnston Associates
SURFACE ELEVATION:	484.2 ft	

<b>LAND OWNER:</b>		PHONE:	214-875-7139
Frank E. Vrana			
Route 3, Box 136, Ennis, TX 75119			
<b>LESSEE:</b>		PHONE:	
<b>ACCESS COMPENSATION EXPIRATION DATE</b>	March 6, 1991		

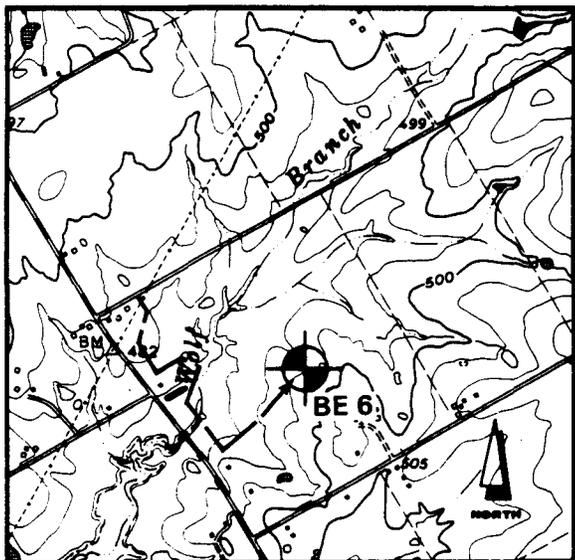
**AUTHORIZED ACCESS ROUTE:** Enter from Turner Road at drive on east side of white house, 0.3 mile east of State Route 1722. Go through double gate and follow existing trail around west side of terraces to well.

<b>WELL SPECIFICATIONS:</b>	(also see the attached as-built diagram)	
TOTAL DEPTH:	419.0 ft	
SCREENED INTERVAL ELEVATION:	100.2-120.2 ft	
LITHOLOGY SCREENED:	AUSTIN	
MEASURING POINT ELEVATION:	487.2 ft	Top of PVC
CASING MATERIAL:	PVC	
DIAMETER:	2 INCH	
LOCK/KEY:	MASTER/2106	

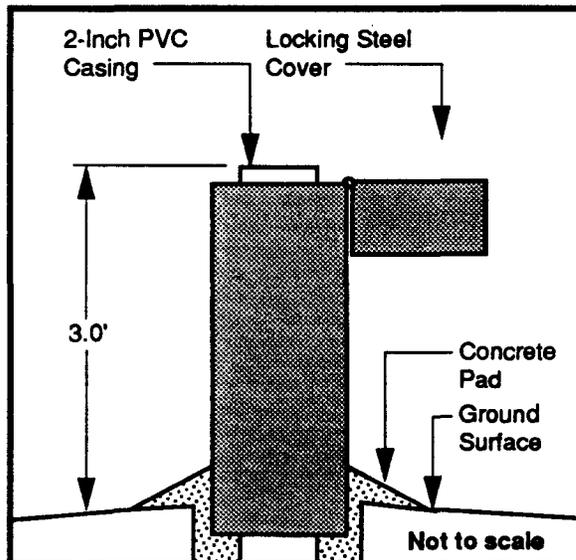
<b>GENERAL WATER LEVELS:</b>	<b>LAST MONITORED</b>
JANUARY/90 - APRIL/90	DATE: 4/2/90
03/17/90 Elevation: 280.3 ft MSL	WATER LEVEL: 406.4 ft
03/26/90 Elevation: 379.9 ft MSL, bailed to 340.7 ft MSL	STATIC WATER LEVEL: N/A
04/02/90 Elevation: 406.4 ft MSL	OTHER:

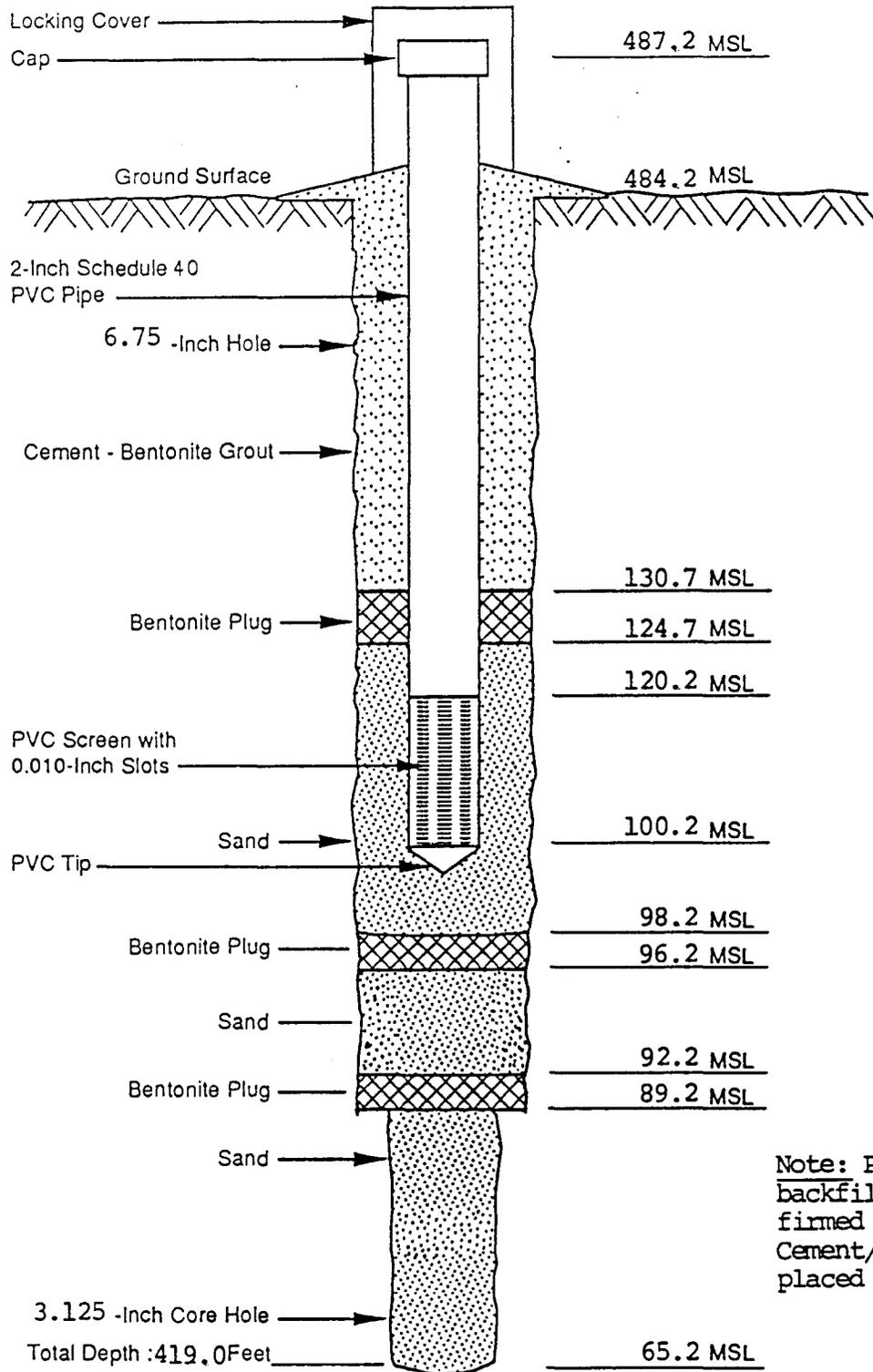
**COMMENTS:** Well cover was found open on June 26, 1990, and the water level was at the top of the casing. The well was bailed to 35 feet below the measuring point.

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: Placement depths of backfill materials were confirmed by manual measurement. Cement/bentonite slurry was placed by tremie.

NOT TO SCALE

Boring: BE 6  
 Location: N 251,280  
 E2,255,023  
 Date(s) Installed: 2/19/90-2/27/90  
 Well Construction  
 Supervising Geologist: Boyd Dreyer/Jim Sansom  
 Approved By: W.D. Flanigan Date: 5/15/90

Observation Well  
 No. BE 6

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 238,075 ft  
 EASTING: 2,255,063 ft  
 SURFACE ELEVATION: 456.3 ft

**SITE DESIGNATOR:** BF 6

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

Mustang Look-Out, Inc., Michael Dunkerley, President  
 2906 Gleneagle Dr., Ennis, TX 75119

PHONE: 214-875-2047

LESSEE:

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: February 4, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter from Highway 287. Turn south on dirt road 2.5 miles southeast of Texas Motorplex sign on highway. Follow dirt road to well near fence line.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	380.0 ft
SCREENED INTERVAL ELEVATION:	101.3-123.3 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	457.9 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

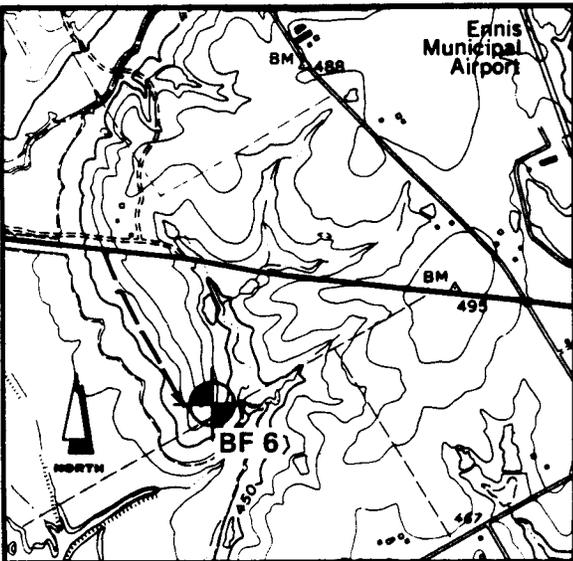
03/22/90 Elevation:	228.2 ft MSL
04/07/90 Elevation:	258.7 ft MSL
06/26/90 Elevation:	447.3 ft MSL

**LAST MONITORED**

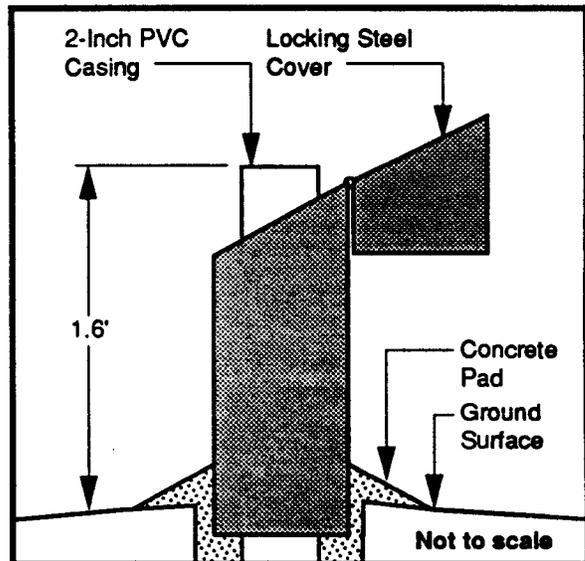
DATE:	6/26/90
WATER LEVEL:	447.3 ft
STATIC WATER LEVEL:	N/A
OTHER:	

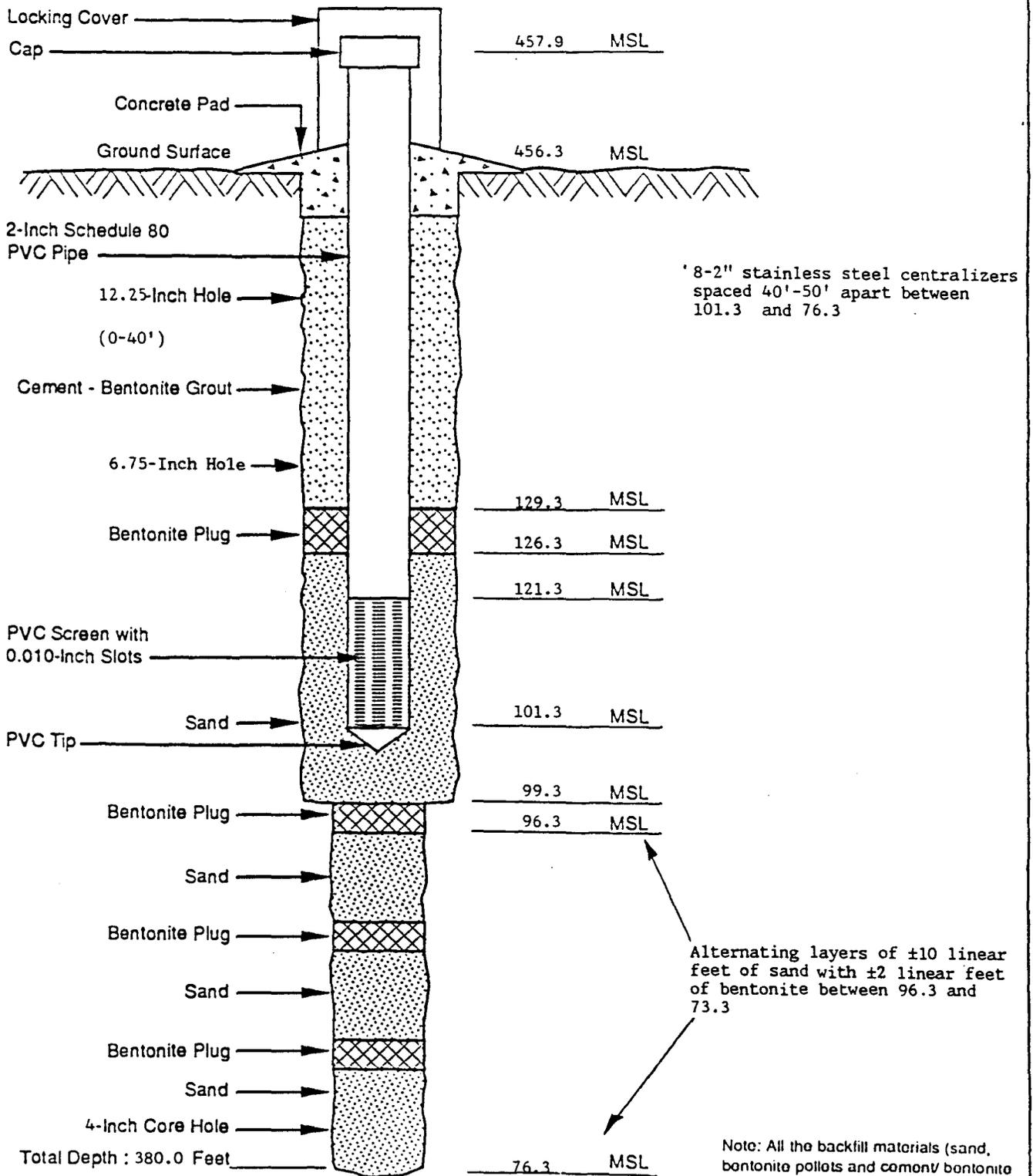
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Boring: BF 6  
 Location: N 238,075  
 E 2,255,063  
 Date(s) Installed: 1-8/1-9-90  
 Well Construction  
 Supervising Geologist: Shawn Wood  
 Approved By: Shawn Wood

Date: 5-14-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.

5/90

BF 6

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 222,080 ft  
 EASTING: 2,249,320 ft  
 SURFACE ELEVATION: 454.8 ft

**SITE DESIGNATOR:** BE 7A

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

Bernard H. Kriska  
 2019 Euclid, Dallas, TX 75206

PHONE: 214-827-7586

**LESSEE:**

Joe S. Patak, Rt. 4, Box 234, Ennis, TX 75119

PHONE: 214-646-5244

ACCESS COMPENSATION EXPIRATION DATE: February 23, 1991

**AUTHORIZED ACCESS ROUTE:**

Off Highway 34 in Bardwell. Turn north at street east of yellow store, pass through residential area and turn right at end of street. Continue east to fenced area marked "keep out". Go around fence to left through field to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	350.0 ft
SCREENED INTERVAL ELEVATION:	134.8-154.8 ft
LITHOLOGY SCREENED:	TAYLOR/AUSTIN
MEASURING POINT ELEVATION:	457.3 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

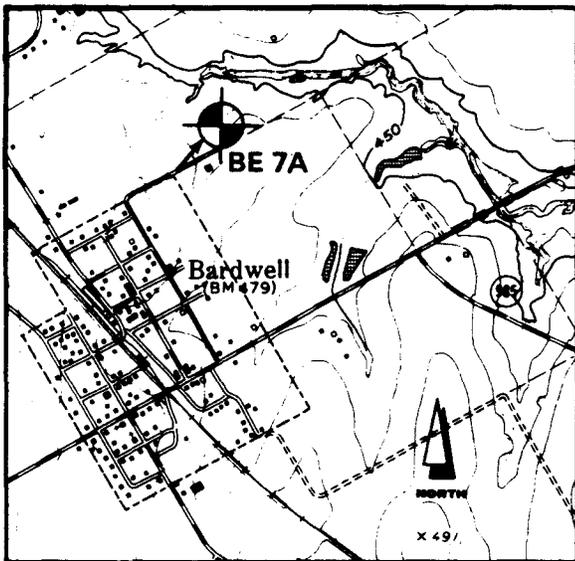
03/23/90 Elevation: 291.7 ft MSL  
 04/05/90 Elevation: 307.2 ft MSL  
 06/26/90 Elevation: 344.7 ft MSL

**LAST MONITORED**

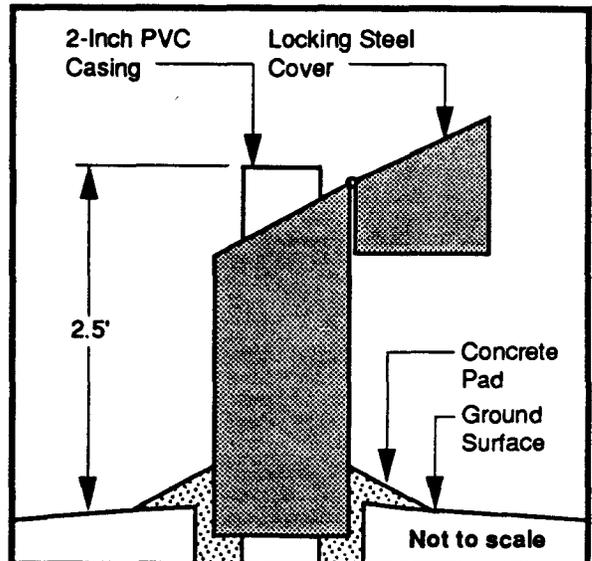
DATE:	6/26/90
WATER LEVEL:	344.7 ft
STATIC WATER LEVEL:	N/A
OTHER:	

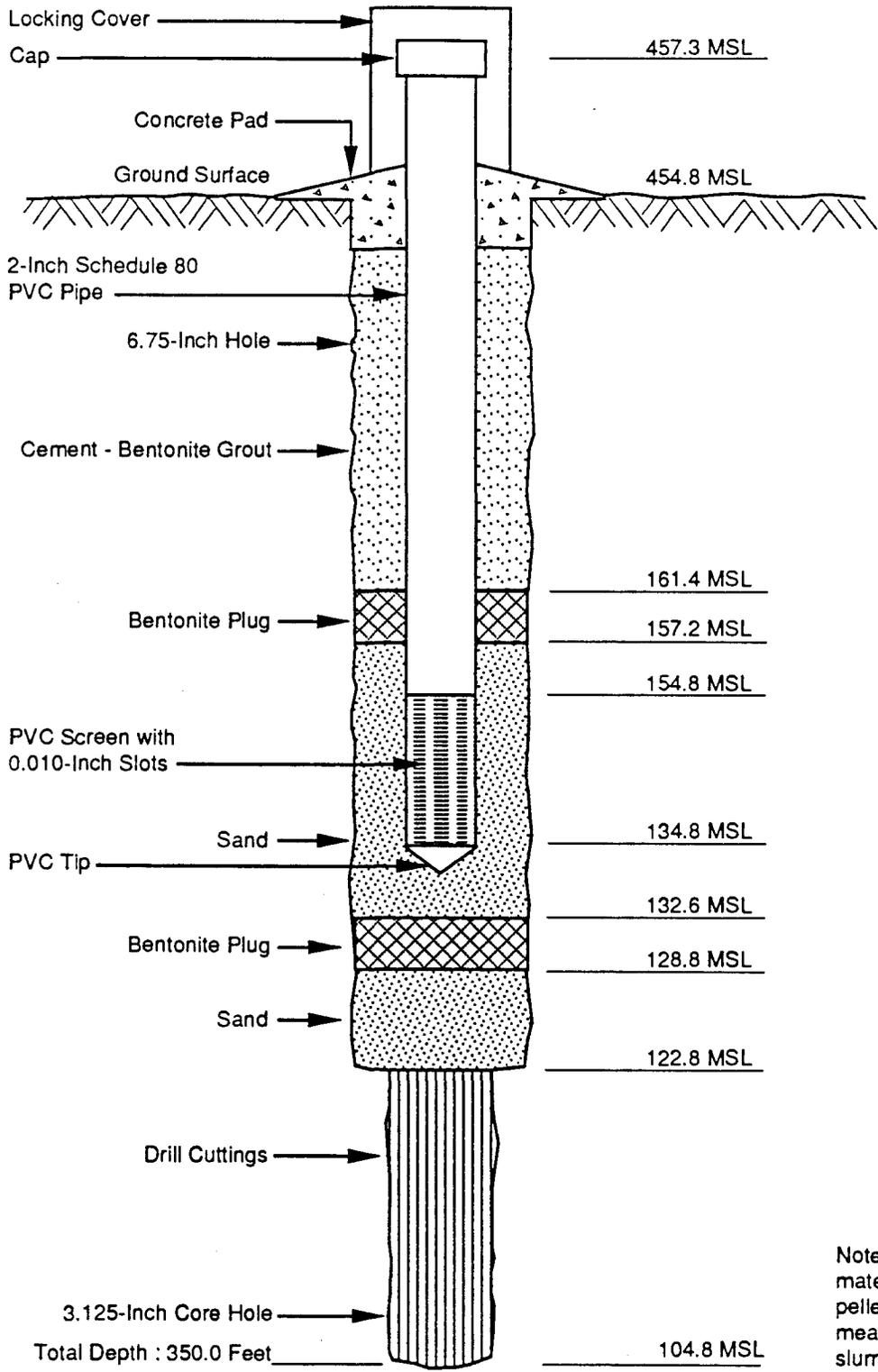
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: Placement depths of backfill materials (sand and bentonite pellets) were confirmed by manual measurement. Cement/bentonite slurry was placed by tremie.

NOT TO SCALE

Boring: BE 7A  
 Location: N 222,080  
 E 2,249,320  
 Date(s) Installed: 2/6/90-2/7/90  
 Well Construction  
 Supervising Geologist: Scott Lesikar  
 Approved By: W.D. Flanigan  
 Date: 5/15/90

Observation Well  
 No. BE 7A

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 213,426 ft  
 EASTING: 2,241,756 ft  
 SURFACE ELEVATION: 483.3 ft

**SITE DESIGNATOR:** BF 7

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

J.B. and Gloria Walker  
 Box 77, Bardwell, TX 75101

PHONE: 214-646-5225

Farming Partner:

Jimmy Walker, Box 77, Bardwell, TX 75101

PHONE: 214-646-5225

ACCESS COMPENSATION EXPIRATION DATE: March 27, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter from farm road 0.2 mile south of Highway 34.

Follow terrace along edge of cultivated field to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 343.5  
 SCREENED INTERVAL ELEVATION: 166.1-186.1 ft  
 LITHOLOGY SCREENED: AUSTIN CHALK  
 MEASURING POINT ELEVATION: 484.5 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 2 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

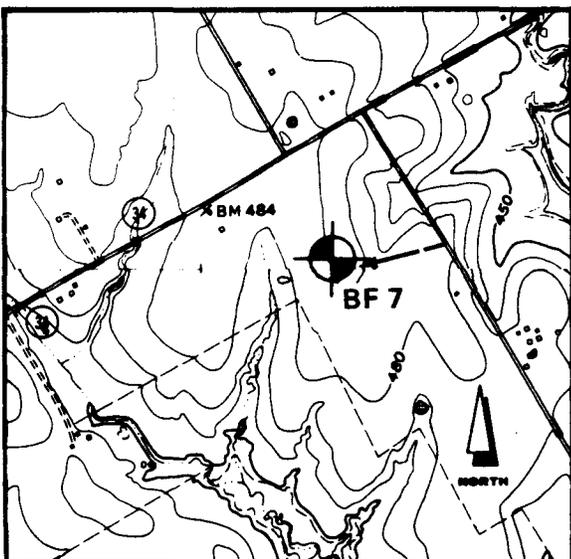
03/17/90 Elevation: 235.9 ft MSL  
 04/05/90 Elevation: 292.2 ft MSL  
 06/26/90 Elevation: 352.2 ft MSL

**LAST MONITORED**

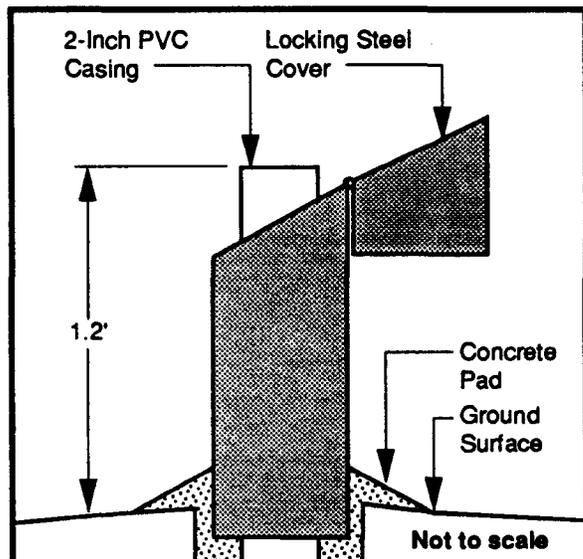
DATE: 6/26/90  
 WATER LEVEL: 352.2 ft  
 STATIC WATER LEVEL: N/A  
 OTHER:

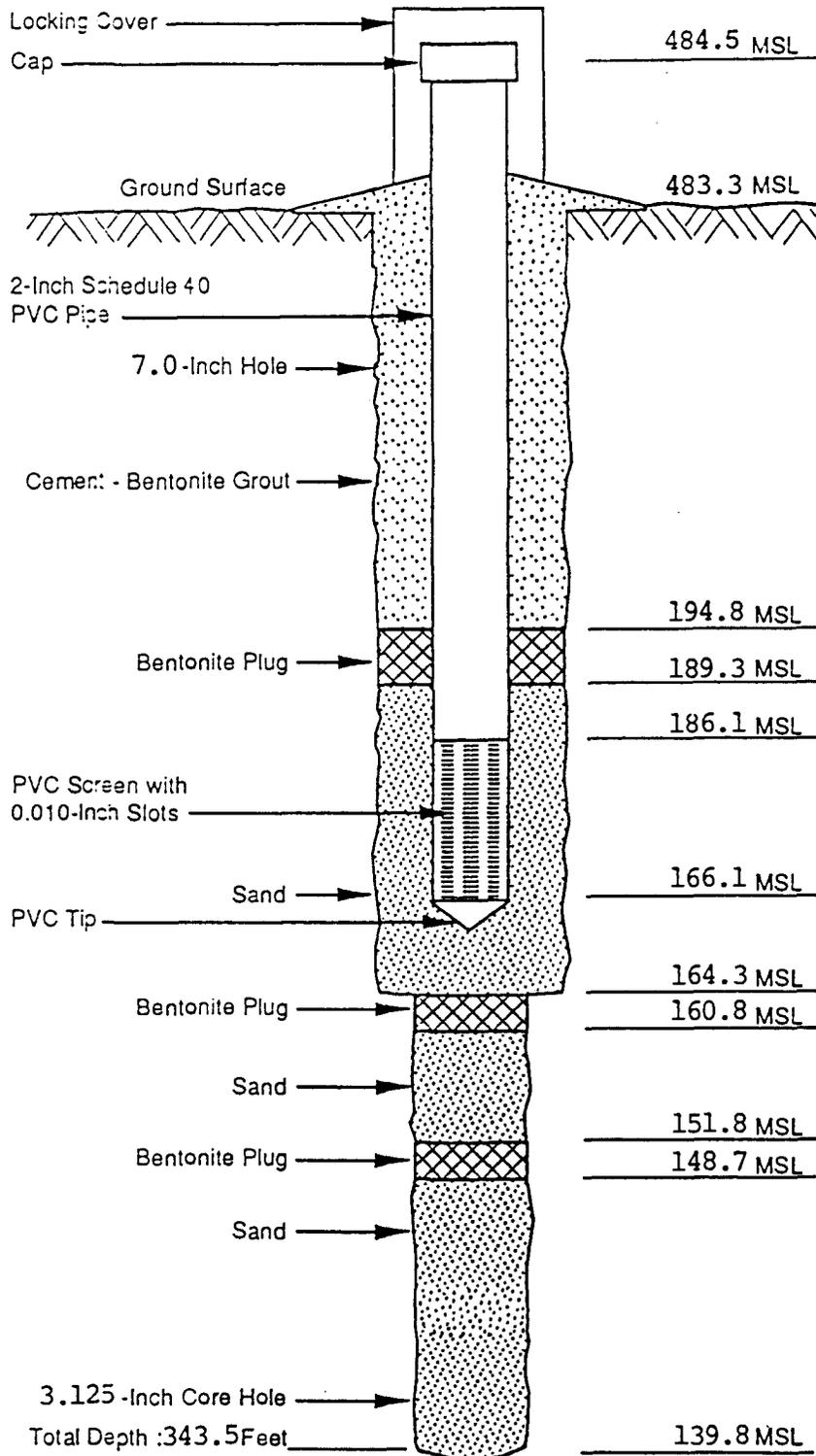
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: Placement depths of backfill materials (sand & bentonite pellets) were confirmed by manual measurement. Cement/bentonite slurry was placed by tremie.

NOT TO SCALE

Boring: BF 7  
 Location: N 213,426  
 E 2,241,756  
 Date(s) Installed: 2/16/90-2/27/90  
 Well Construction  
 Supervising Geologist: Scott Lesikar  
 Approved By: W.D. Flanigan Date: 5/15/90

Observation Well  
 No. BF 7

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 206,364 ft  
 EASTING: 2,229,026 ft  
 SURFACE ELEVATION: 428.0 ft

**SITE DESIGNATOR:** BE 8

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

W.R. Jett Estate, Charlie Jett, contact  
 Route 1, Italy, TX 76651  
 LESSEE:

PHONE: 214-627-3287

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: January 11, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter from Maloney Road (unmarked road about 2.2 miles northeast of Avalon off of Highway 34). Turn right at grassy field road 0.1 mile past Lakeside Road, proceed to fence line, turn left along north side of fence line. Follow trail 0.1 mile to survey marker.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 220.0 ft  
 SCREENED INTERVAL ELEVATION: 236.5-256.5 ft  
 LITHOLOGY SCREENED: AUSTIN  
 MEASURING POINT ELEVATION: 430.7 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 2 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

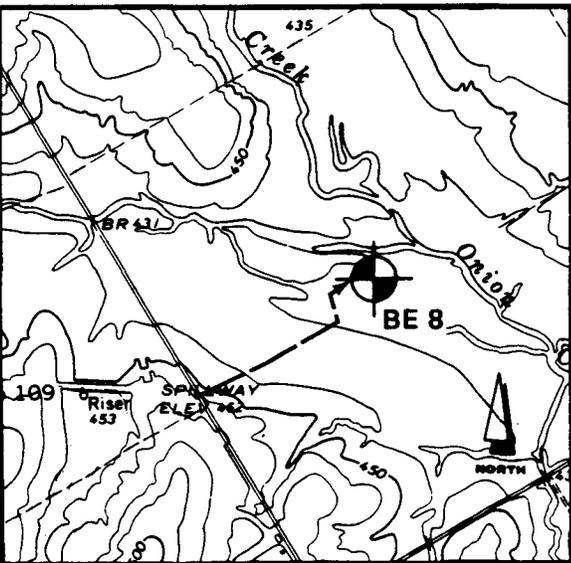
03/23/90 Elevation: 418.8 ft MSL  
 04/05/90 Elevation: 416.1 ft MSL  
 06/26/90 Elevation: 427.0 ft MSL

**LAST MONITORED**

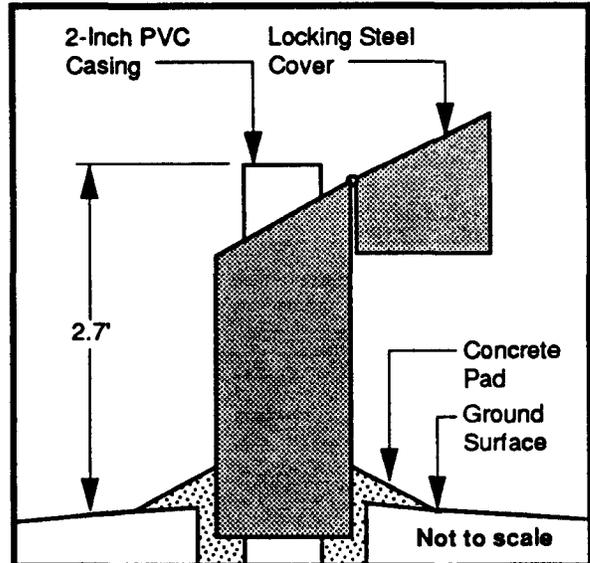
DATE: 6/26/90  
 WATER LEVEL: 427.0 ft  
 STATIC WATER LEVEL: N/A  
 OTHER:

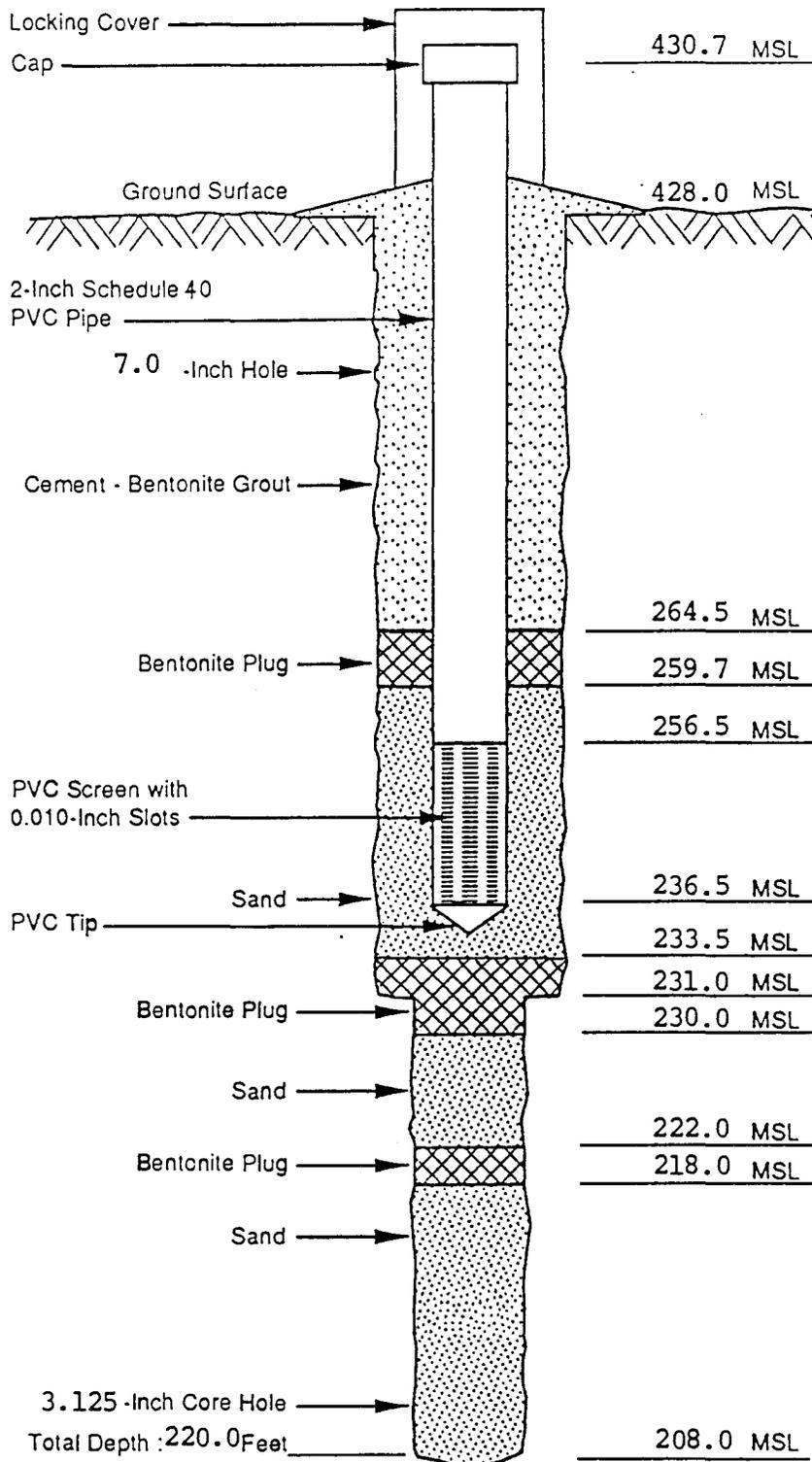
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: Placement depths of backfill materials (sand & bentonite pellets) were confirmed by manual measurement. Cement/bentonite slurry was placed by tremie.

NOT TO SCALE

Boring: 8E 8  
 Location: N 206,364  
 E 2,229,026  
 Date(s) Installed: 12/27/89-12/28/89  
 Well Construction  
 Supervising Geologist: Scott E. Lesikar  
 Approved By: W.D. Flanigan Date: 5/15/90

Observation Well  
 No. 8E 8

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 204,307 ft  
 EASTING: 2,215,118 ft  
 SURFACE ELEVATION: 512.2 ft

**SITE DESIGNATOR:** BF 8

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

Weldon K. Odom and Jimmie Odom  
 Route 4, Box 249, Waxahachie, TX 75165

PHONE: 214-627-3206

LESSEE:

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: January 11, 1991

**AUTHORIZED ACCESS ROUTE:**

From State Route 55, enter field road opposite Odom Road. Follow 0.2 mile to stock pens, proceed through gates, and turn right. Follow trail 0.1 mile to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	232.0 ft
SCREENED INTERVAL ELEVATION:	307.7-327.7 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	514.7 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

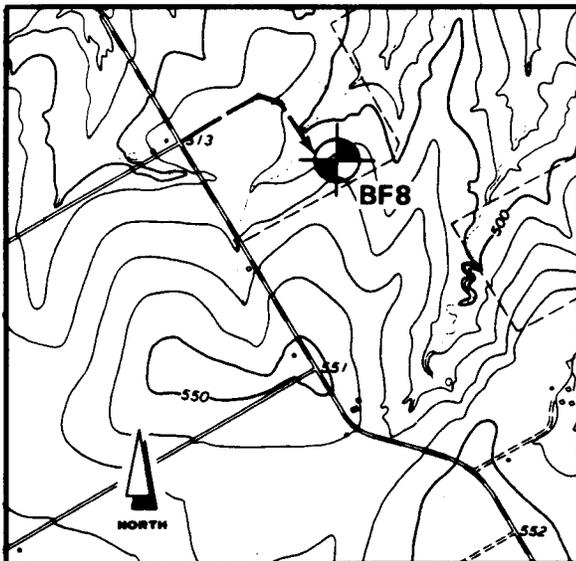
03/23/90 Elevation:	484.0 ft MSL
04/05/90 Elevation:	486.8 ft MSL
06/26/90 Elevation:	492.3 ft MSL

**LAST MONITORED**

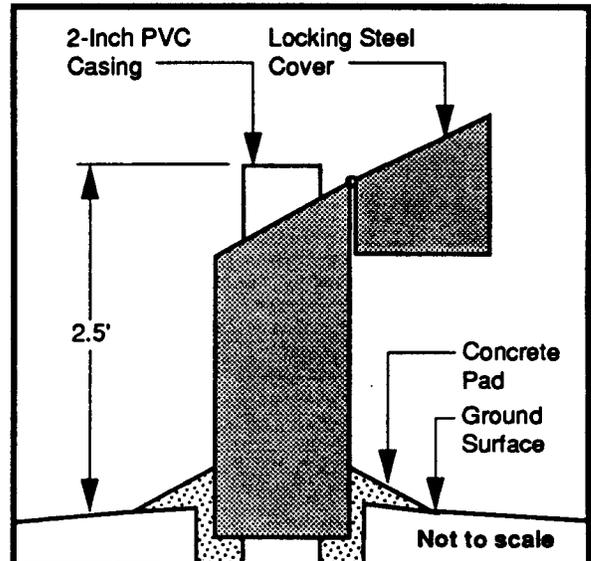
DATE:	6/26/90
WATER LEVEL:	492.3 ft
STATIC WATER LEVEL:	N/A
OTHER:	

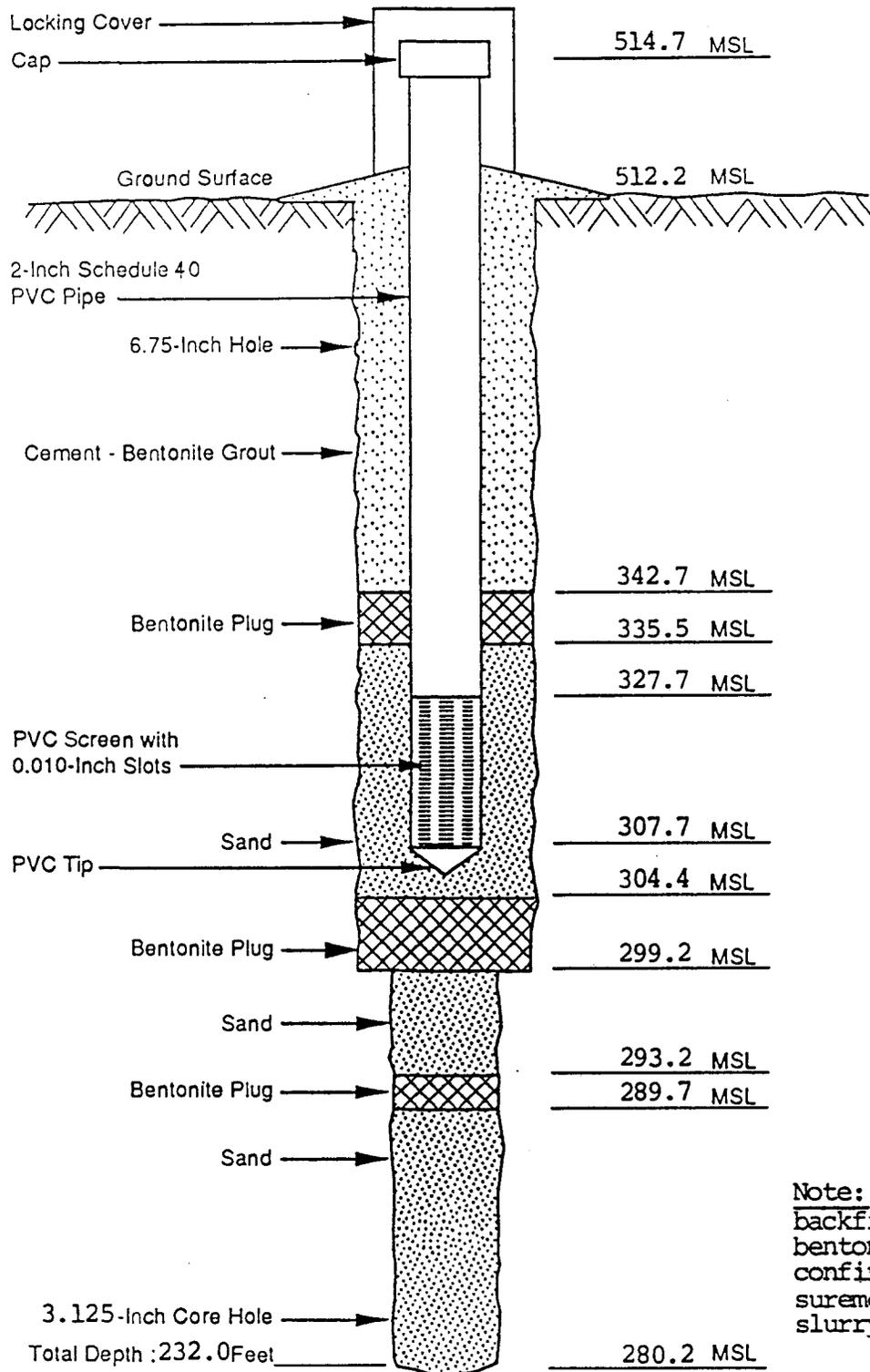
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: Placement depths of backfill materials (sand & bentonite pellets) were confirmed by manual measurement. Cement/bentonite slurry was placed by tremie.

NOT TO SCALE

Boring: BF 8  
 Location: N 204,307  
 E 2,215,118  
 Date(s) Installed: 1/8/90-1/10/90  
 Well Construction  
 Supervising Geologist: Mark G. Thomas  
 Approved By: W.D. Flanigan Date: 5/15/90

Observation Well  
 No. BF 8

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 207,540 ft  
 EASTING: 2,200,560 ft  
 SURFACE ELEVATION: 512.0 ft

**SITE DESIGNATOR:** BE 9

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

Steve R. and Reba Singleton  
 P.O. Box 130, Cedar Hill, TX 75104

PHONE: 214-291-1386  
 214-291-4241

**LESSEE:**

Ronald Janek, Box 282, Italy, TX 76651

PHONE: 214-438-6310

ACCESS COMPENSATION EXPIRATION DATE: February 28, 1991

**AUTHORIZED ACCESS ROUTE:**

From Lumkins Road, turn north on field road and follow fence line 0.5 mile to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	162.3 ft
SCREENED INTERVAL ELEVATION:	378.0-398.0 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	513.6 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

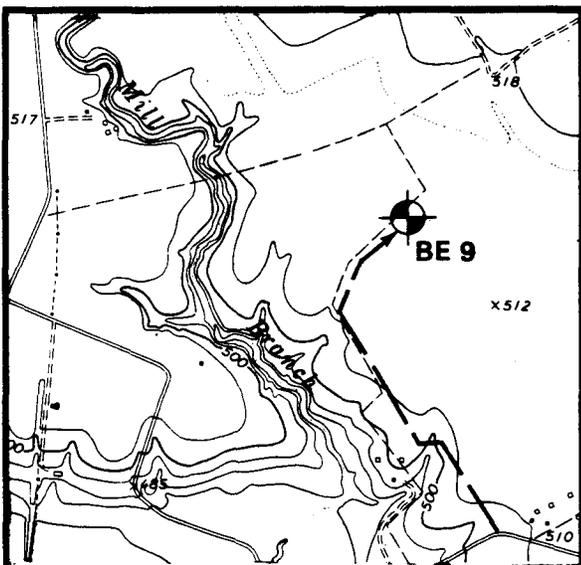
03/17/90 Elevation:	378.7 ft MSL
04/05/90 Elevation:	380.3 ft MSL
06/26/90 Elevation:	385.6 ft MSL

**LAST MONITORED**

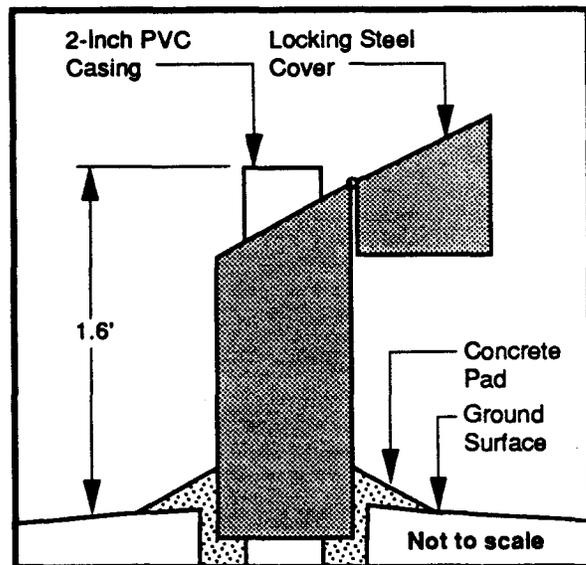
DATE:	6/26/90
WATER LEVEL:	385.6 ft
STATIC WATER LEVEL:	N/A
OTHER:	

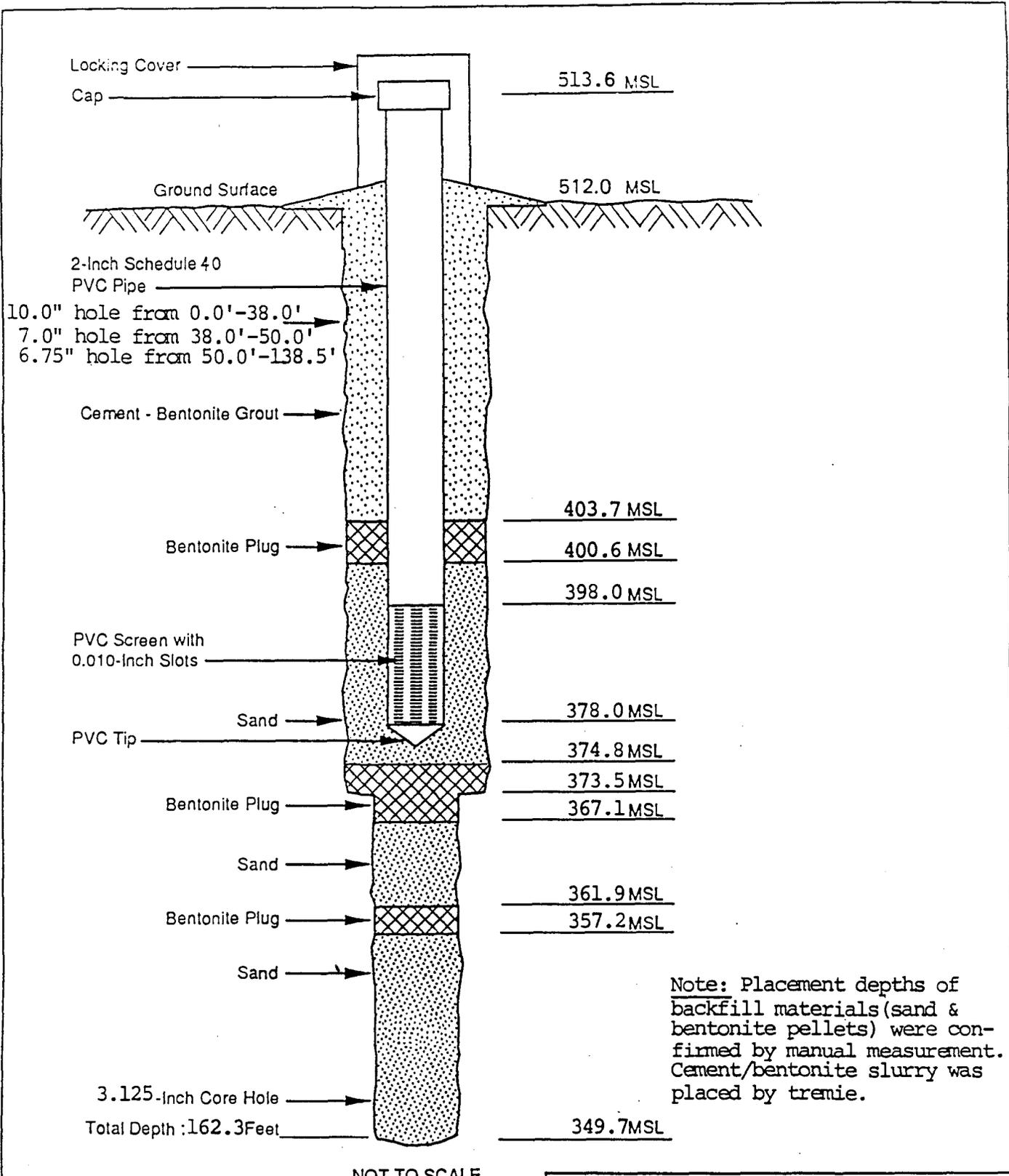
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Boring: BE 9  
 Location: N 207,540  
 E 2,200,560  
 Date(s) Installed: 2/19/90-2/20/90  
 Well Construction  
 Supervising Geologist: W.D. Flanigan  
 Approved By: Scott Lesikar Date: 5/15/90

Observation Well  
 No. BE 9

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 214,885 ft  
 EASTING: 2,189,515 ft  
 SURFACE ELEVATION: 543.3 ft

**SITE DESIGNATOR:**

BF 9

BUILT BY:  
 Mason-Johnston Associates

**LAND OWNER:**

Joe J. Dana  
 520 Rock Creek Dr., De Soto, TX 75115

PHONE: 214-223-8708

**LESSEE:**

James Tole

PHONE: 214-937-2769

ACCESS COMPENSATION EXPIRATION DATE February 22, 1991

**AUTHORIZED ACCESS ROUTE:**

Turn east onto grassy field road from Lewis Road, 1.5 mile south of Five Points. Follow trail 0.2 mile to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	167.5 ft
SCREENED INTERVAL ELEVATION:	395.0-415.0 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	545.0 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

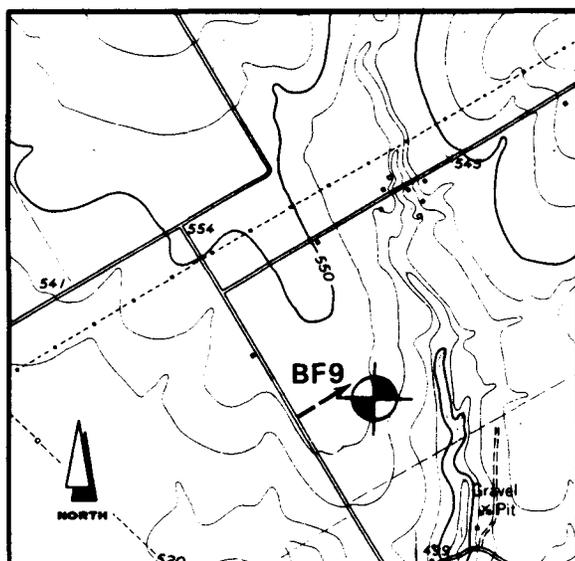
03/25/90 Bailed: 504.0 ft MSL  
 04/02/90 Elevation: 527.4 ft MSL  
 06/26/90 Elevation: 526.4 ft MSL

**LAST MONITORED**

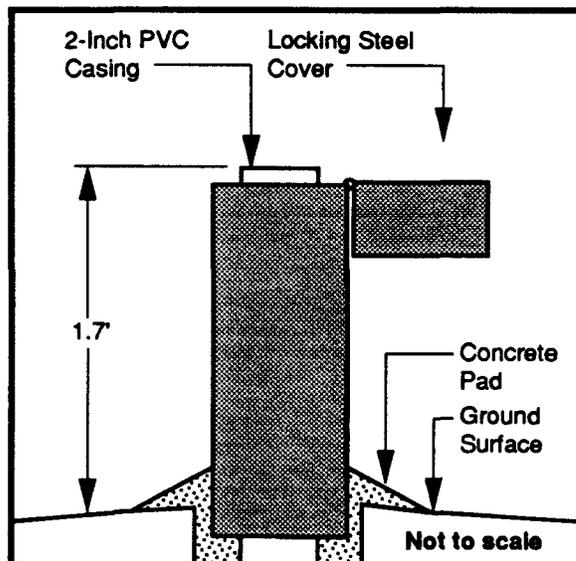
DATE: 6/26/90  
 WATER LEVEL: 526.4 ft  
 STATIC WATER LEVEL: N/A  
 OTHER:

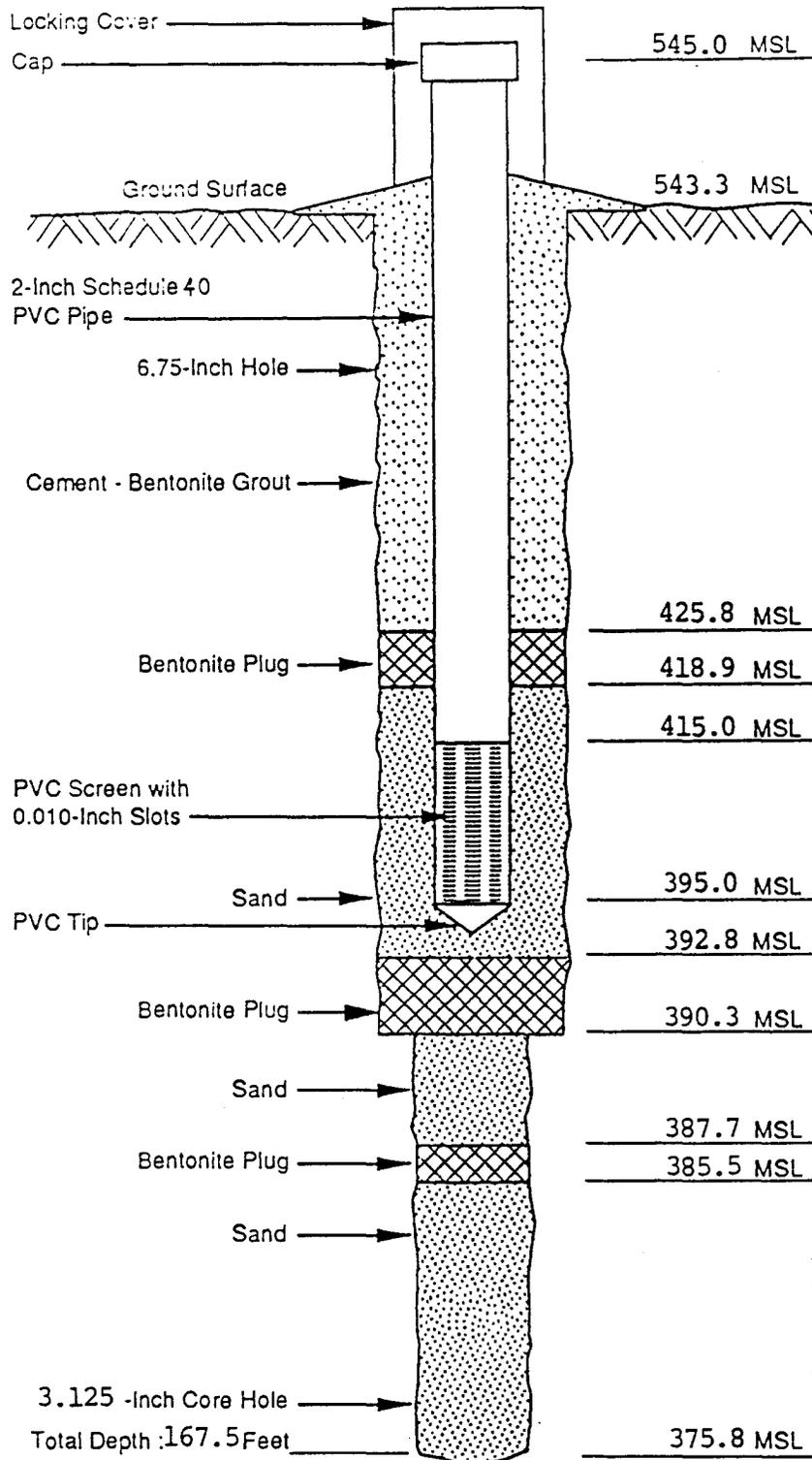
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: Placement depths of backfill materials (sand & bentonite pellets) were confirmed by manual measurement. Cement/bentonite slurry was placed by tremie.

NOT TO SCALE

Boring: BF 9  
 Location: N 214,885  
 E 2,189,515  
 Date(s) Installed: 1/24/90-1/25/90  
 Well Construction  
 Supervising Geologist: Scott E. Lesikar  
 Approved By: W.D. Flanigan Date: 5/15/90

Observation Well  
 No. BF 9

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 225,960 ft  
 EASTING: 2,181,380 ft  
 SURFACE ELEVATION: 560.8 ft

**SITE DESIGNATOR:** BE 10

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

Stephen and Richard Chapman  
 801 U.S. 77 North, Waxahachie, TX 75165

PHONE: 214-937-2720

**LESSEE:**

Kars Tamminga, P.O. Box 1069, Waxahachie, TX

PHONE: 214-937-8897

ACCESS COMPENSATION EXPIRATION DATE: March 6, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter from Bethel Road through gate 0.9 mile north of State Route 876. Follow existing trail on south side of fence for 0.3 mile. Enter gap in fence and continue along north side of fence to well in field.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	128.0 ft
SCREENED INTERVAL ELEVATION:	461.8-481.8 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	562.7 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

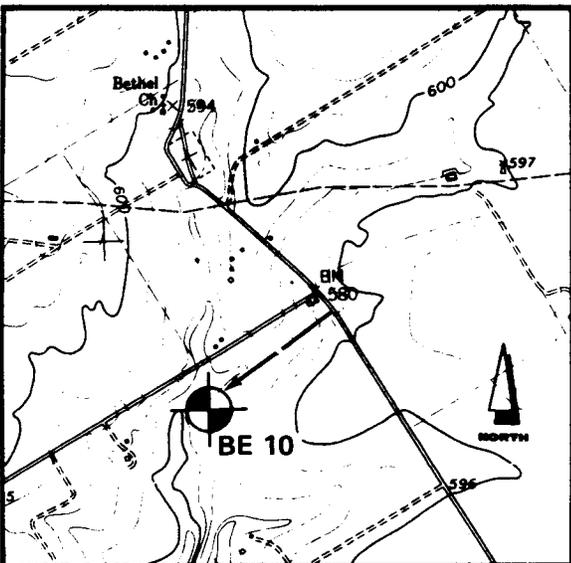
03/23/90 Elevation: 552.9 ft MSL  
 04/05/90 Elevation: 553.6 ft MSL  
 06/27/90 Elevation: 554.0 ft MSL

**LAST MONITORED**

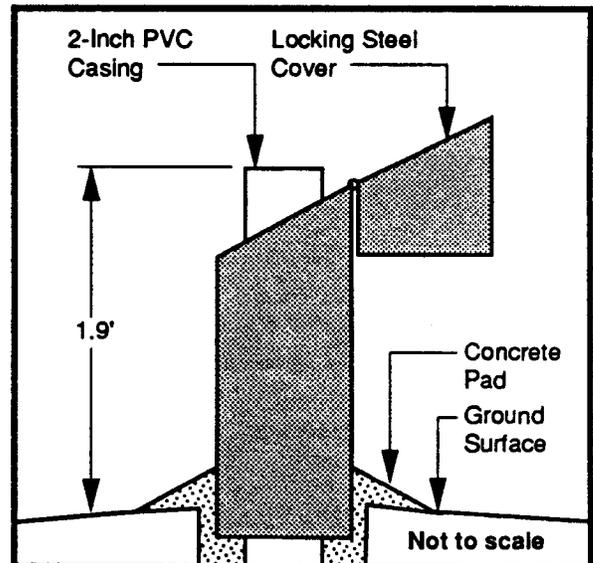
DATE: 6/26/90  
 WATER LEVEL: 554.0 ft  
 STATIC WATER LEVEL: N/A  
 OTHER:

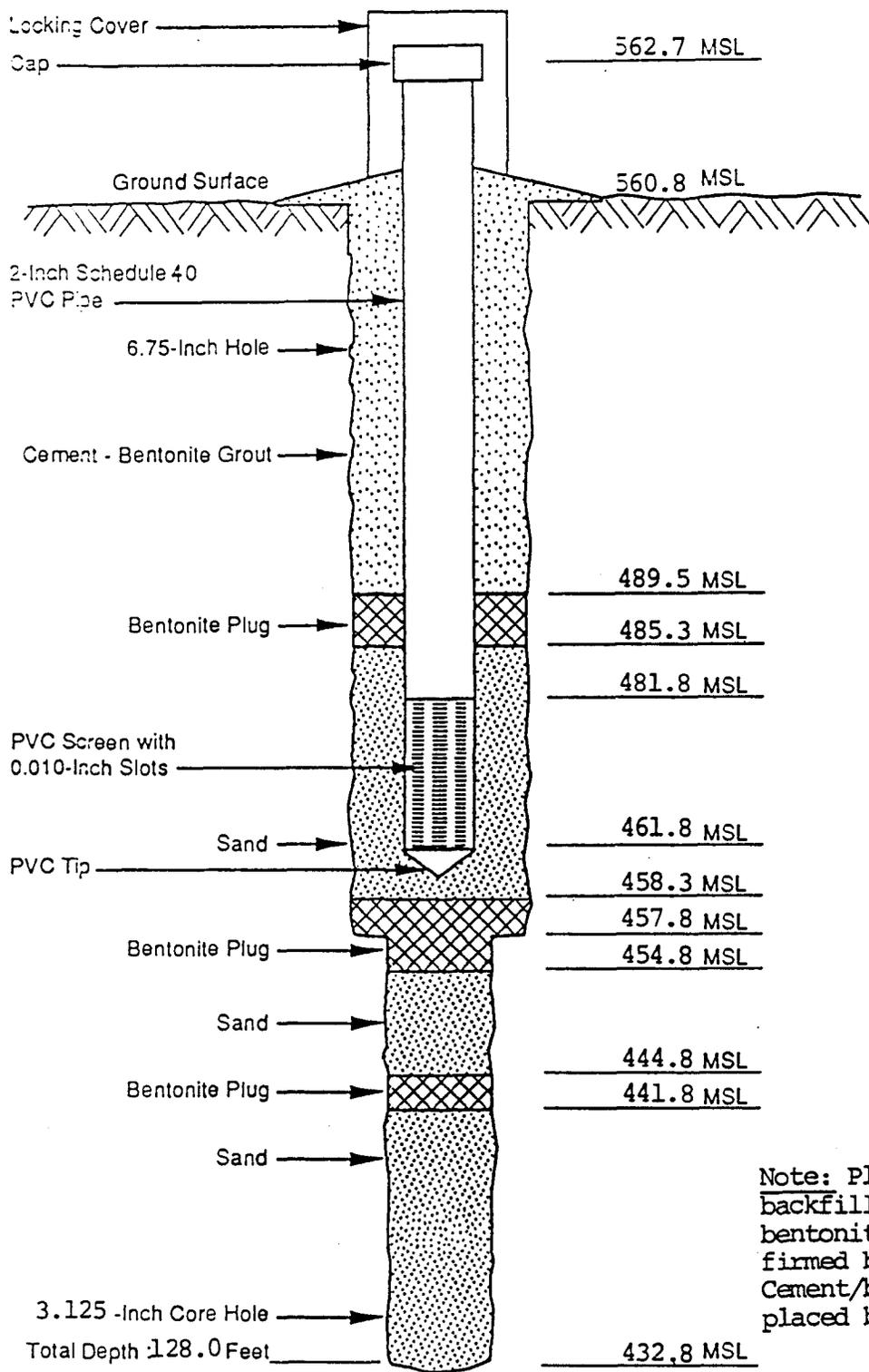
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: Placement depths of backfill materials (sand & bentonite pellets) were confirmed by manual measurement. Cement/bentonite slurry was placed by tremie.

NOT TO SCALE

Boring: BE 10  
 Location: N 225,960  
 E 2,181,380  
 Date(s) Installed: 1/12/90-1/13/90  
 Well Construction  
 Supervising Geologist: Scott Lesikar  
 Approved By: W.D. Flanigan Date: 5/15/90

Observation Well  
 No. BE 10

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 251,717 ft  
 EASTING: 2,171,756 ft  
 SURFACE ELEVATION: 741.4 ft

**SITE DESIGNATOR:** BI 1

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

J.A. and Janette Loftis  
 215 Overhill, Waxahachie, TX 75165

PHONE: 214-937-4695

**LESSEE:**

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: March 2, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter gate on west side of Arrowhead Road.  
 Proceed along fence line trail to gate at northwest corner of field; turn north and continue along fence line to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 211.0 ft  
 SCREENED INTERVAL ELEVATION: 551.4-571.4 ft  
 LITHOLOGY SCREENED: AUSTIN/EAGLE  
 MEASURING POINT ELEVATION: 744.0 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 4 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

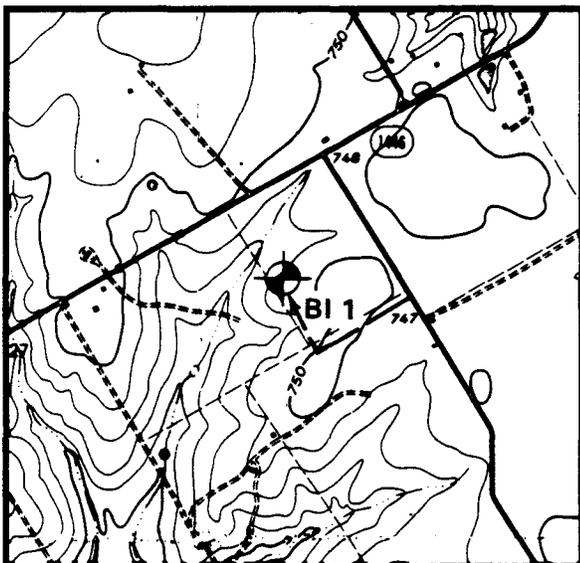
02/21/90 Elevation: 719.7 ft MSL  
 04/10/90 Elevation: 720.4 ft MSL  
 06/26/90 Elevation: 720.2 ft MSL

**LAST MONITORED**

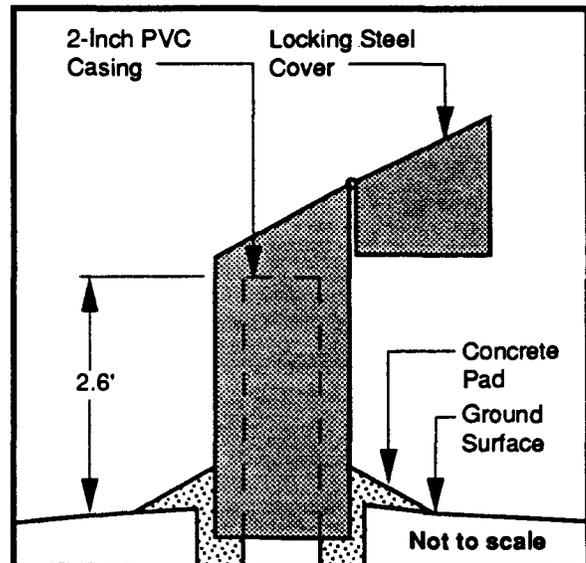
DATE: 6/26/90  
 WATER LEVEL: 720.2 ft  
 STATIC WATER LEVEL: 720.2 ft  
 OTHER:

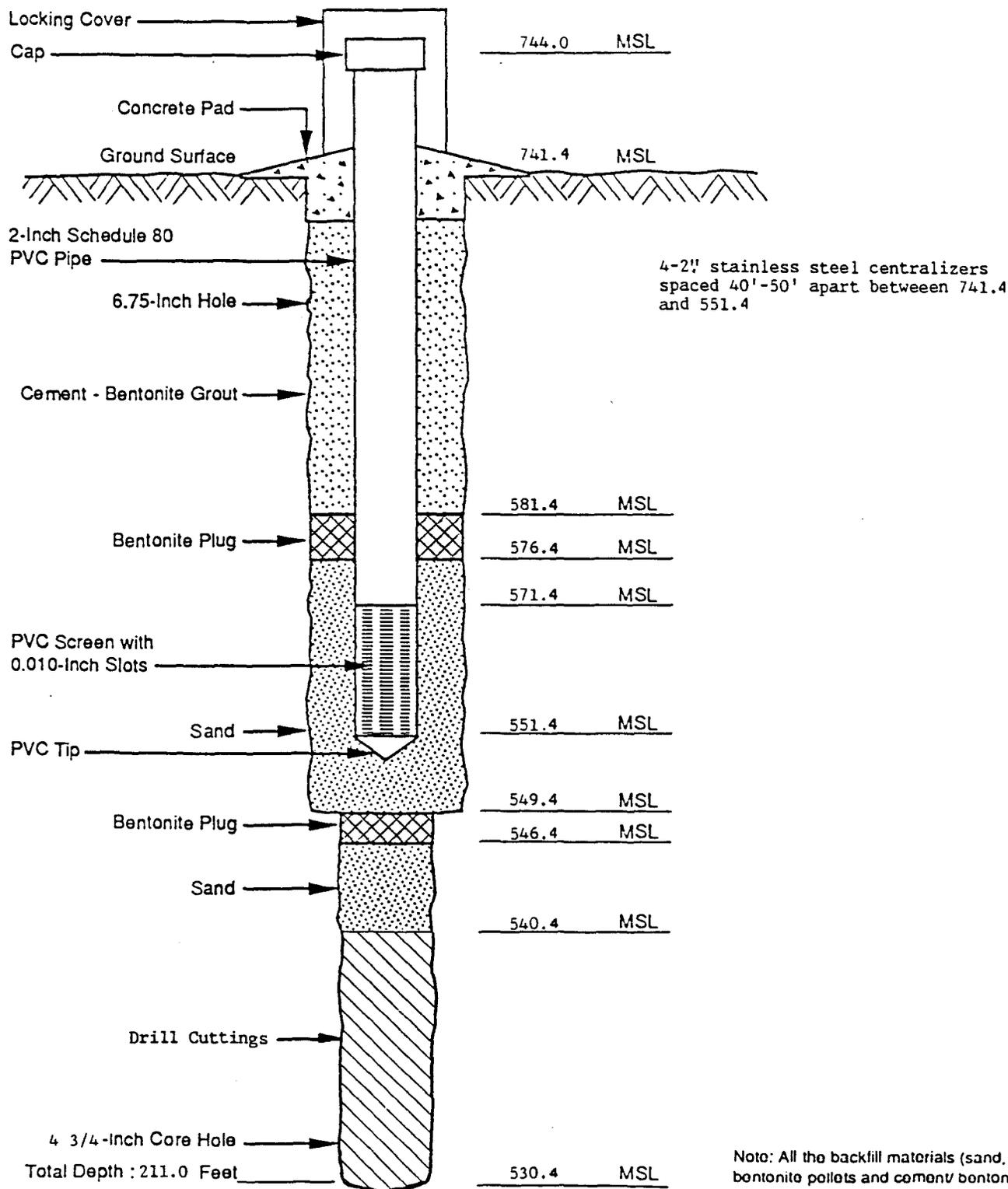
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Note: All the backfill materials (sand, bentonite pellets and cement/bentonite slurry) were placed by tremie.

Boring: BI 1  
 Location: N 251,717  
 E 2,171,756  
 Date(s) Installed: 12-2-89  
 Well Construction  
 Supervising Geologist: David Hartsfield  
 Approved By: Shawn Wood Date: 5-14-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.  
 BI 1

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 256,267 ft  
 EASTING: 2,179,204 ft  
 SURFACE ELEVATION: 639.9 ft

**SITE DESIGNATOR:** BI 2A

BUILT BY: Mason-Johnston Associates

**LAND OWNER:**

Juanita Couch  
 638 Mayrant, Dallas, TX

PHONE: 214-230-0238

**LESSEE:**

Joe Betzel, 538 Jeff Grimes Blvd., Desoto, TX 75115

PHONE: 214-230-0238

ACCESS COMPENSATION EXPIRATION DATE: March 14, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter driveway off State Route 1446, 0.3 mile east of Crownover Road. Go through iron gate and follow existing trail to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 261.5 ft  
 SCREENED INTERVAL ELEVATION: 570.2-590.2 ft  
 LITHOLOGY SCREENED: AUSTIN  
 MEASURING POINT ELEVATION: 642.1 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 2 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

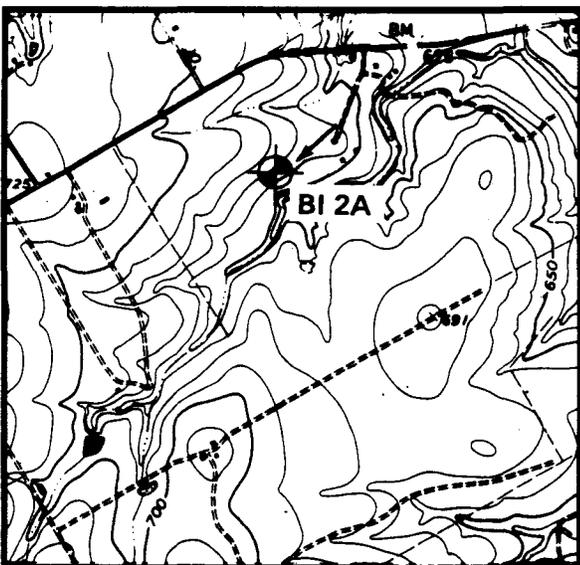
02/17/90 Elevation: 610.4 ft MSL  
 04/05/90 Elevation: 611.7 ft MSL  
 06/27/90 Elevation: 611.7 ft MSL

**LAST MONITORED**

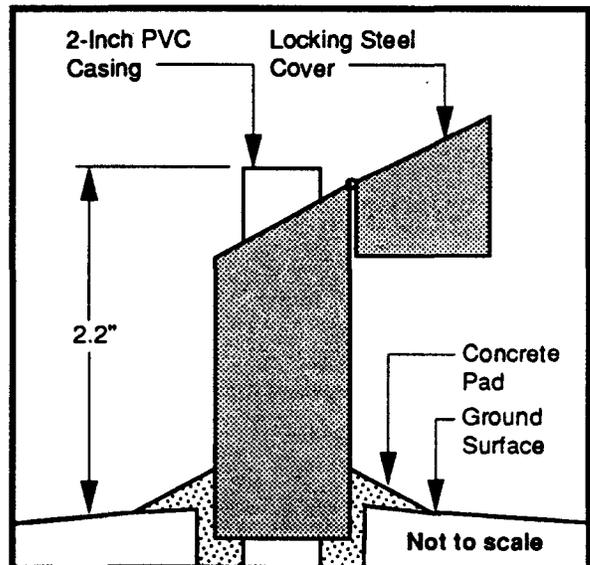
DATE: 6/27/90  
 WATER LEVEL: 611.7 ft  
 STATIC WATER LEVEL: 611.7 ft  
 OTHER:

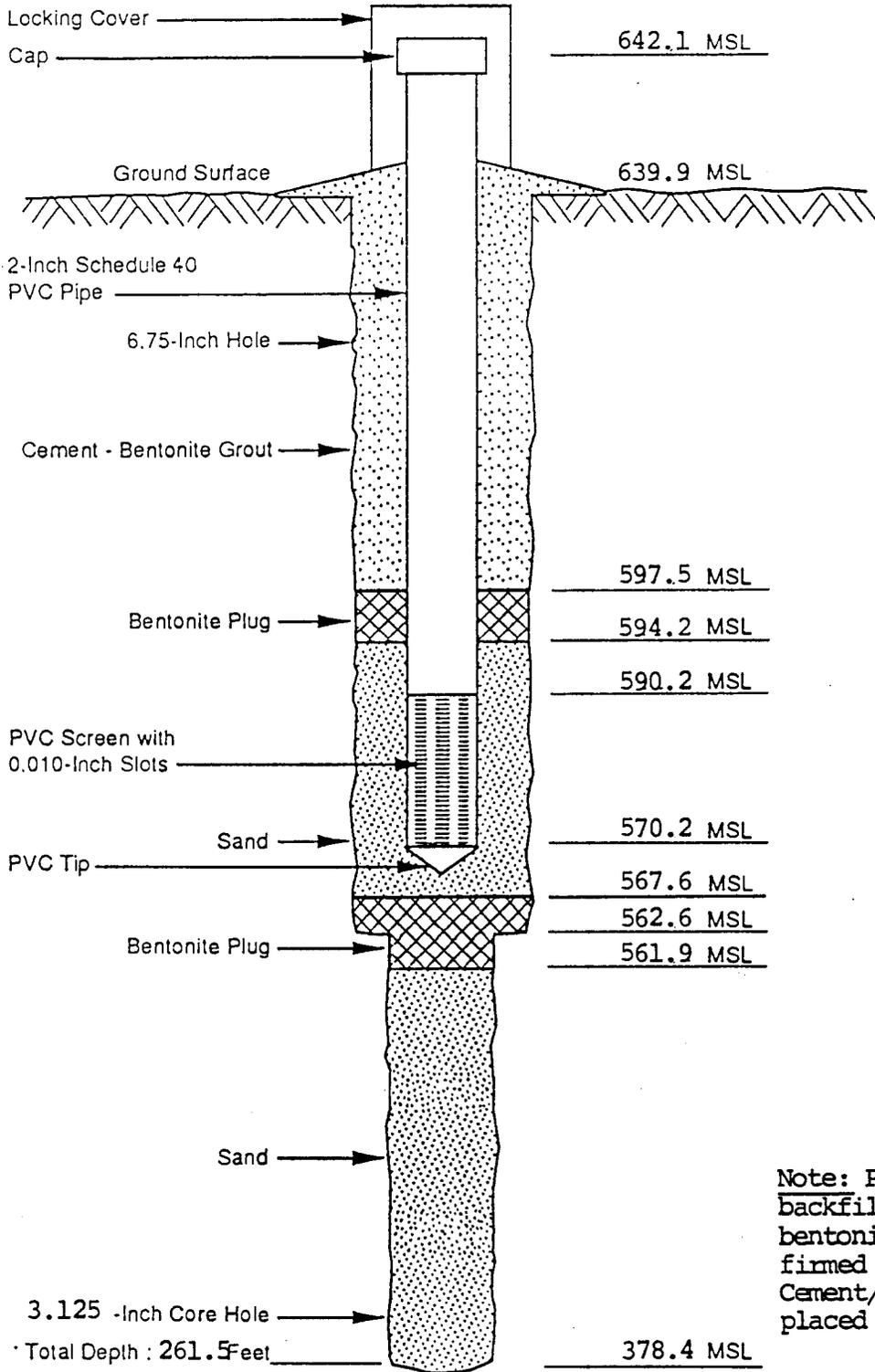
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: Placement depths of backfill materials (sand & bentonite pellets) were confirmed by manual measurement. Cement/bentonite slurry was placed by tremie.

NOT TO SCALE

Boring: BI 2A  
 Location: N 256, 267  
 E 2,179,204  
 Date(s) Installed: 12/6/89-12/7/89  
 Well Construction  
 Supervising Geologist: Scott Lesikar  
 Approved By: W.D. Flanigan Date: 5/15/90

Observation Well  
 No. BI 2A

5/90

Figure

**MONITORING WELL DESCRIPTION**

<b>SITE COORDINATES:</b>		<b>SITE DESIGNATOR:</b> BI 3	
NORTHING:	246,179 ft	BUILT BY:	
EASTING:	2,180,466 ft	Southwestern Laboratories	
SURFACE ELEVATION:	696.7 ft		

<b>LAND OWNER:</b>		PHONE: 214-348-9671	
John and Alice Strickland			
9510 Shady Valley, Dallas, TX 75238			
<b>LESSEE:</b>		PHONE: 214-937-6055	
James L. Parten Rt. 3, Box 143, Waxahachie, TX. 75165			
<b>ACCESS COMPENSATION EXPIRATION DATE:</b>		January 10, 1991	

**AUTHORIZED ACCESS ROUTE:** Enter gate east of abandoned house on north side of Old Maypearl Road, 0.3 mile east of Arrowhead Road. Follow trail road through second gate to end of fence line. Turn right and follow slight rise in field elevation to grove of trees, turn right to well.

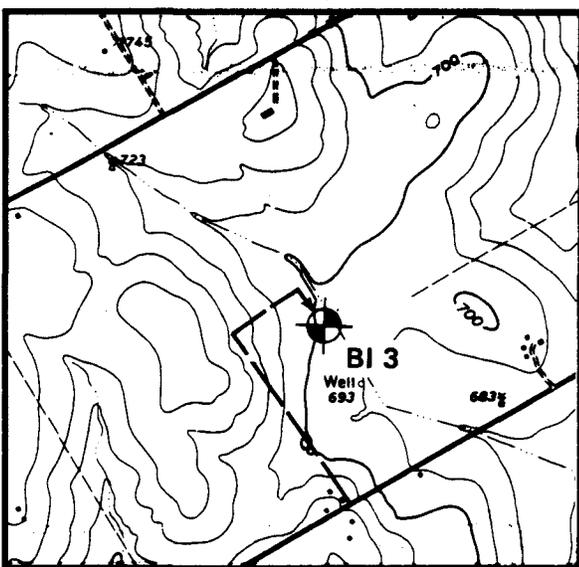
**WELL SPECIFICATIONS:** (also see the attached as-built diagram)

TOTAL DEPTH:	282.0 ft
SCREENED INTERVAL ELEVATION:	600.7-620.7 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	698.9 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

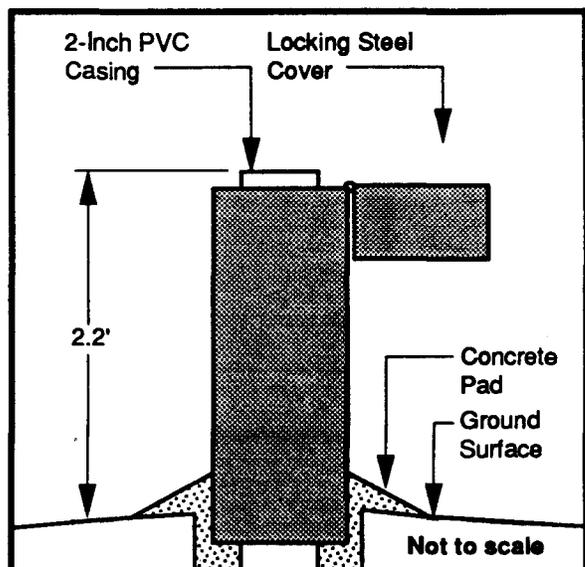
<b>GENERAL WATER LEVELS:</b>	<b>LAST MONITORED</b>
JANUARY/90 - APRIL/90	DATE: 6/26/90
03/27/90 Elevation: 693.9 ft MSL	WATER LEVEL: 690.0 ft
04/04/90 Elevation: 694.0 ft MSL	STATIC WATER LEVEL: 694.0 ft
06/26/90 Elevation: 690.0 ft MSL	OTHER:

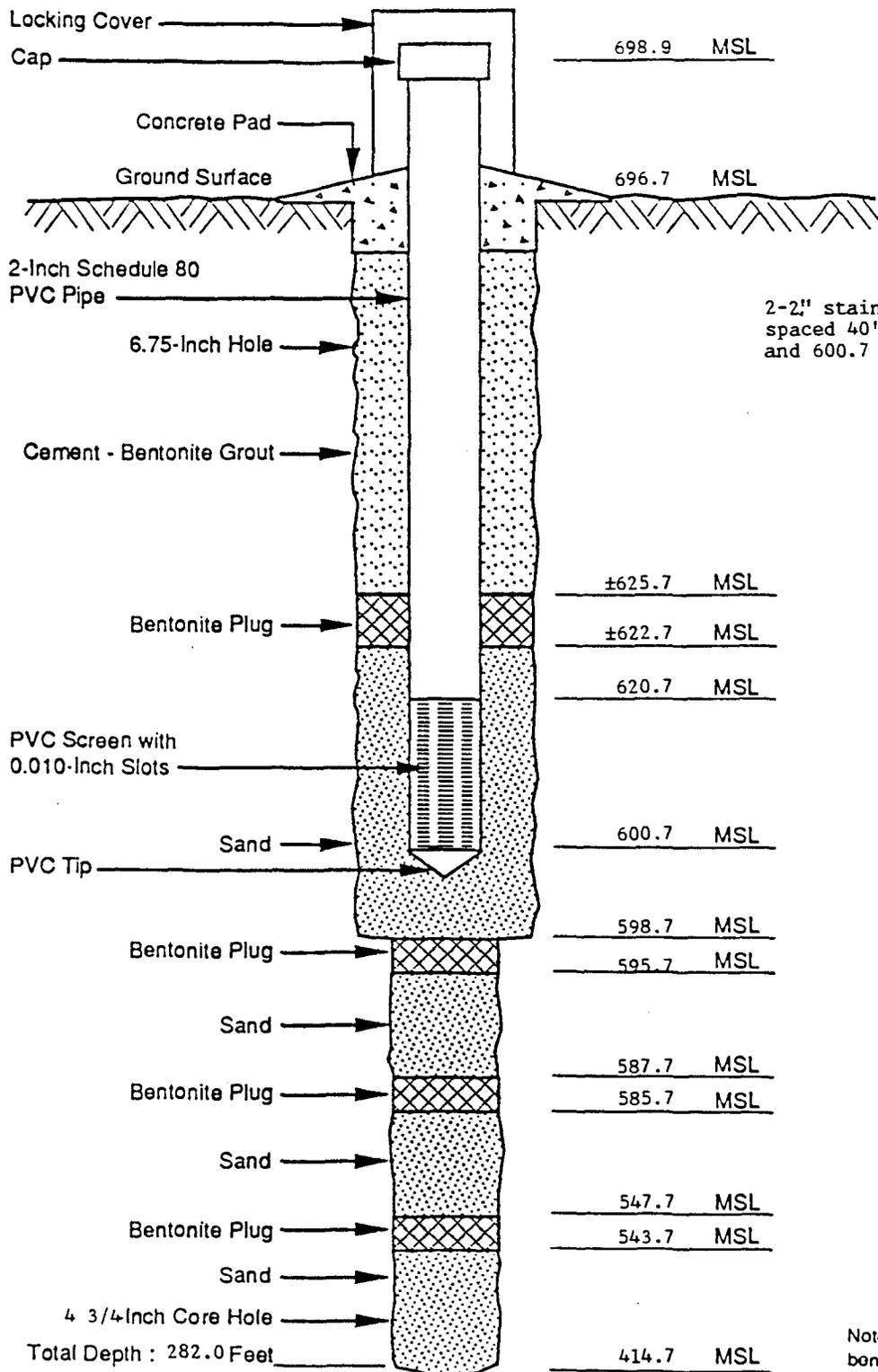
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Note: All the backfill materials (sand, bentonite pellets and cement/bentonite slurry) were placed by tremie.

Boring: BI 3  
 Location: N 246,179  
 E 2,180,466  
 Date(s) Installed: 12-12-89  
 Well Construction  
 Supervising Geologist: Mike Granger  
 Approved By: Shawn Wood

Date: 5-14-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.

5/90

BI 3

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 255,921 ft  
 EASTING: 2,174,201 ft  
 SURFACE ELEVATION: 710.9 ft

**SITE DESIGNATOR:** BI 4

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

Jack and Sue May  
 537 Honeysuckle Trail, Midlothian, TX 76065

PHONE: 214-937-5348

**LESSEE:**

Jimmy Loftis III, 427 Grand, Waxahachie, TX. 75165

PHONE: 214-937-5953  
 214-937-7071

ACCESS COMPENSATION EXPIRATION DATE March 9, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter gate off State Road 1446, 0.5 mile southwest of Crossover Road and follow trail to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 184.5 ft  
 SCREENED INTERVAL ELEVATION: 547.9-567.9 ft  
 LITHOLOGY SCREENED: AUSTIN  
 MEASURING POINT ELEVATION: 713.8 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 2 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

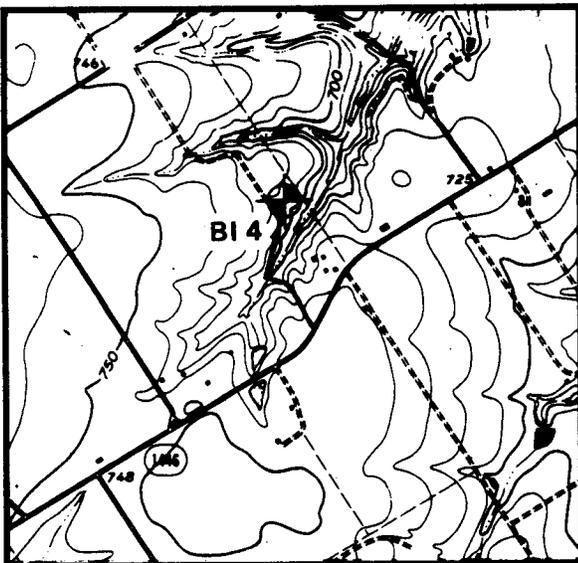
03/23/90 Elevation: 680.5 ft MSL  
 04/10/90 Elevation: 680.9 ft MSL  
 06/26/90 Elevation: 681.2 ft MSL

**LAST MONITORED**

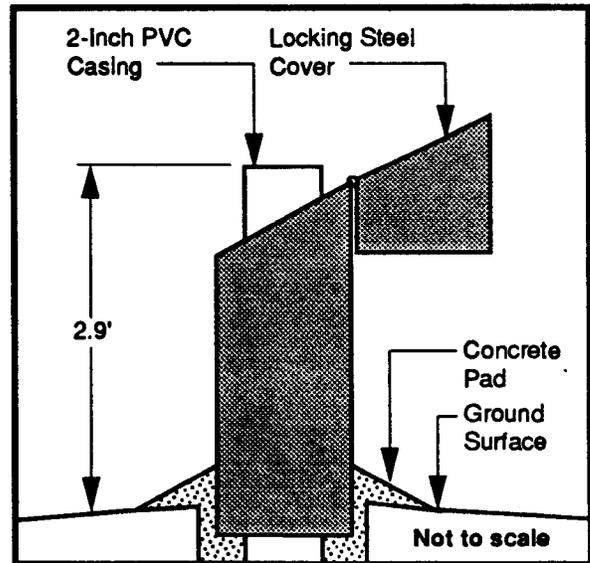
DATE: 6/26/90  
 WATER LEVEL: 681.2 ft  
 STATIC WATER LEVEL: 681.2 ft  
 OTHER:

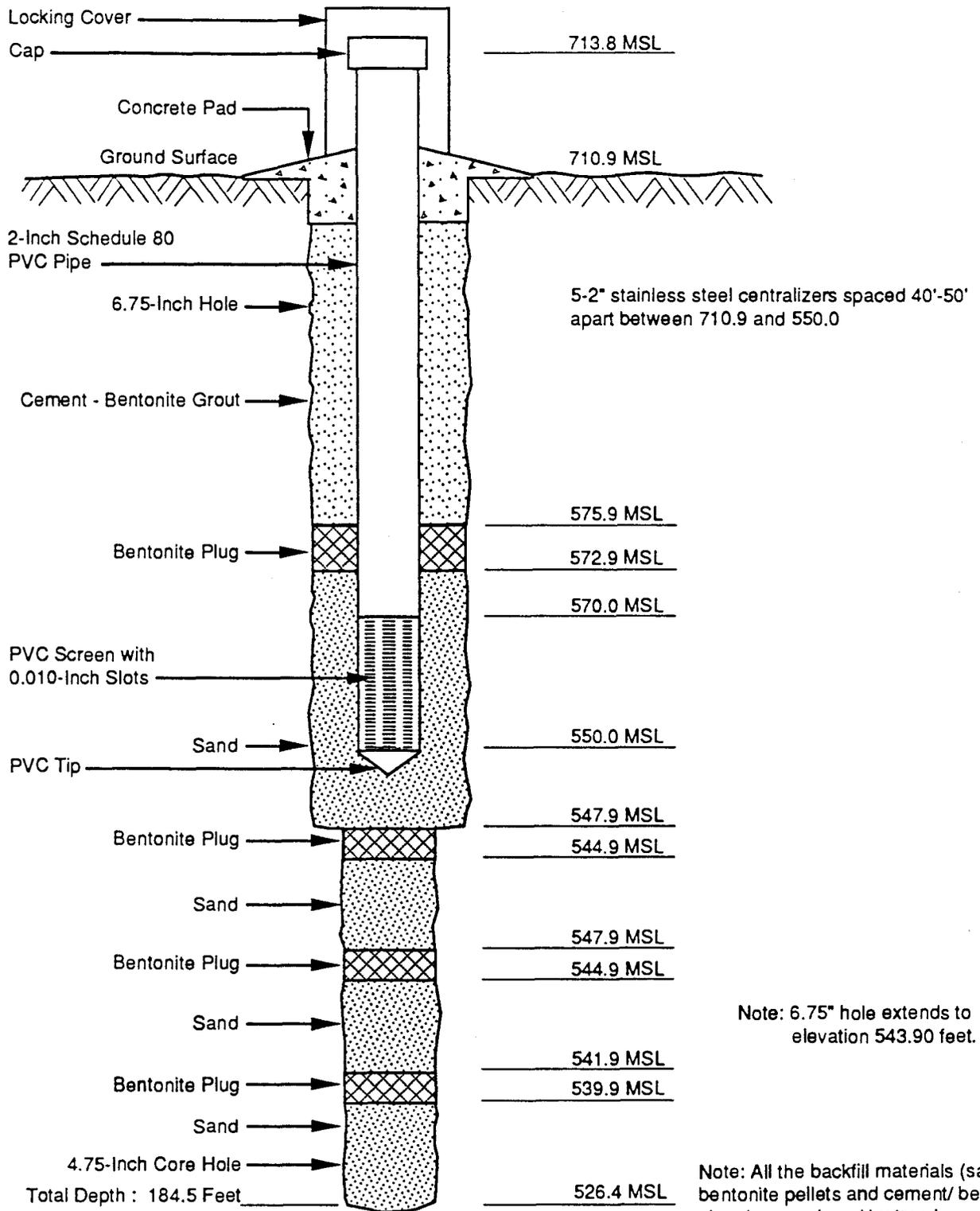
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Boring: BI 4  
 Location: N 255,921  
 E 2,174,201  
 Date(s) Installed: 1/23/90  
 Well Construction  
 Supervising Geologist: Dale Brown  
 Approved By: Shawn Wood

Date: 5/14/90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No. BI 4

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING:	251,800 ft
EASTING:	2,182,381 ft
SURFACE ELEVATION:	658.4 ft

**SITE DESIGNATOR:** BI 5

**BUILT BY:**  
Southwestern Laboratories

**LAND OWNER:**

M.T. and Lucille Norton  
315 Harbin, Waxahachie, TX 75165

**PHONE:** 214-937-1919

**LESSEE:**

**PHONE:**

**ACCESS COMPENSATION EXPIRATION DATE:** February 15, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter flagged drive on north side of Highway 66, 0.2 mile west of JB Drive. Continue around left turn in road to gate at barn on north side of road, turn right after gate to well in field.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	280.0 ft
SCREENED INTERVAL ELEVATION:	550.4-570.4 ft
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	662.0 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

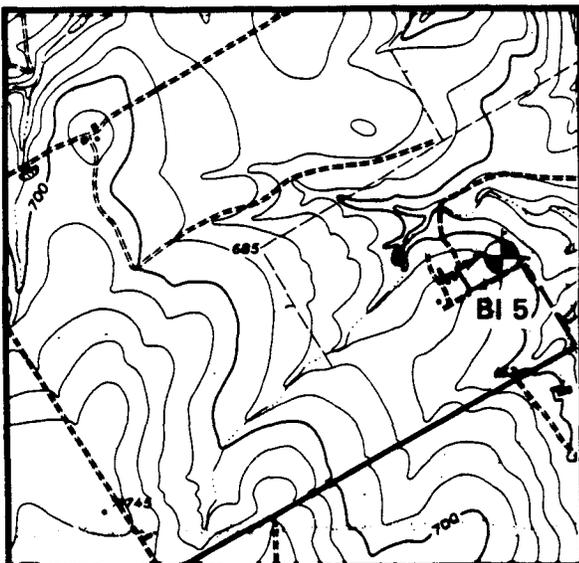
03/23/90 Elevation:	641.0 ft MSL
04/10/90 Elevation:	641.2 ft MSL
06/26/90 Elevation:	641.3 ft MSL

**LAST MONITORED**

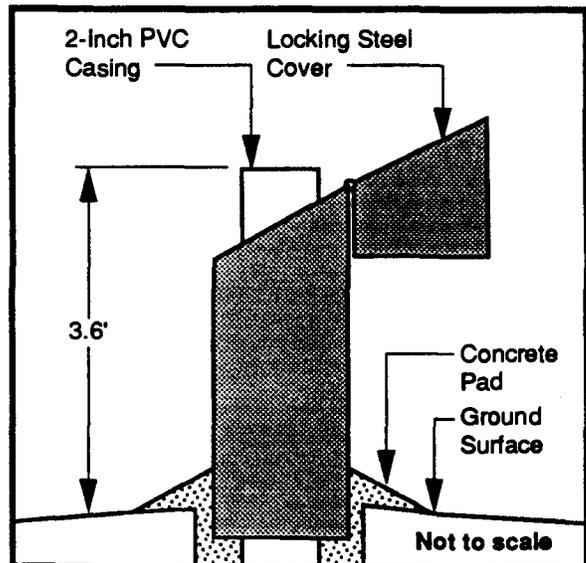
DATE:	6/26/90
WATER LEVEL:	641.3 ft
STATIC WATER LEVEL:	641.3 ft
OTHER:	

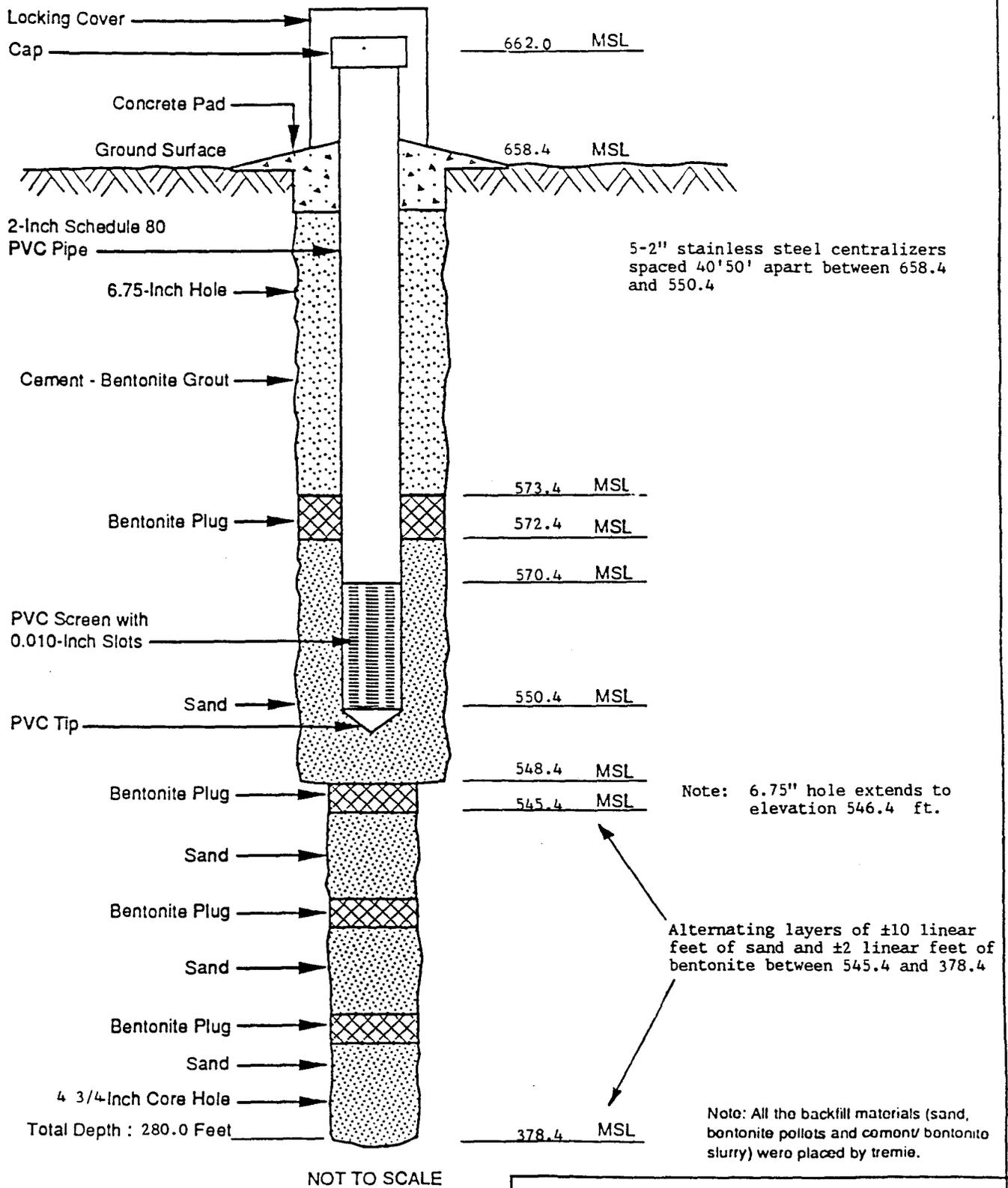
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Boring: BI 5  
 Location: N 251,800  
 E 2,182,381  
 Date(s) Installed: 1-30-90  
 Well Construction  
 Supervising Geologist: Dale Brown  
 Approved By: Shawn Wood

Date: 5-15-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.

BI 5

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 245,951 ft  
 EASTING: 2,174,687 ft  
 SURFACE ELEVATION: 734.1 ft

**SITE DESIGNATOR:** BI 6

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

Judy and Hugh Wesson  
 Route 3, Box 207, Waxahachie, TX 75165

PHONE: 214-937-1029

**LESSEE:**

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: February 15, 1991

**AUTHORIZED ACCESS ROUTE:**

Enter directly from Highway 66. Well is in field about 150 feet south of Highway 66, 0.2 mile west of Arrowhead Road.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	231.0 ft
SCREENED INTERVAL ELEVATION:	552.1-572.1
LITHOLOGY SCREENED:	AUSTIN
MEASURING POINT ELEVATION:	735.7 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	2 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

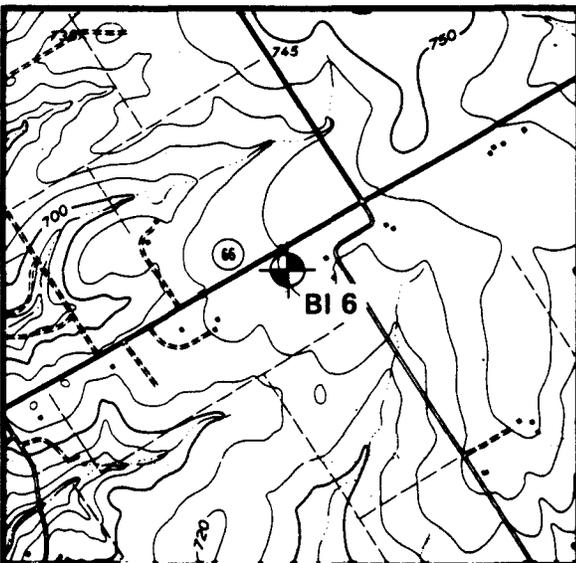
03/23/90 Elevation: 717.2 ft MSL  
 04/10/90 Elevation: 717.5 ft MSL  
 06/26/90 Elevation: 716.0 ft MSL

**LAST MONITORED**

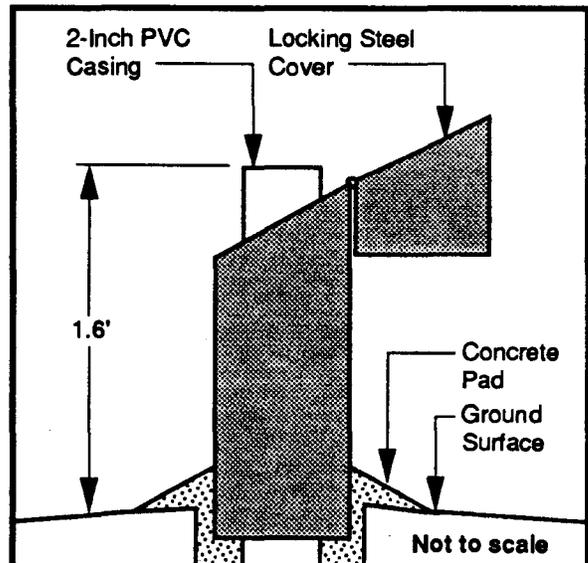
DATE: 6/26/90  
 WATER LEVEL: 716.0 ft  
 STATIC WATER LEVEL: 717.5 ft  
 OTHER:

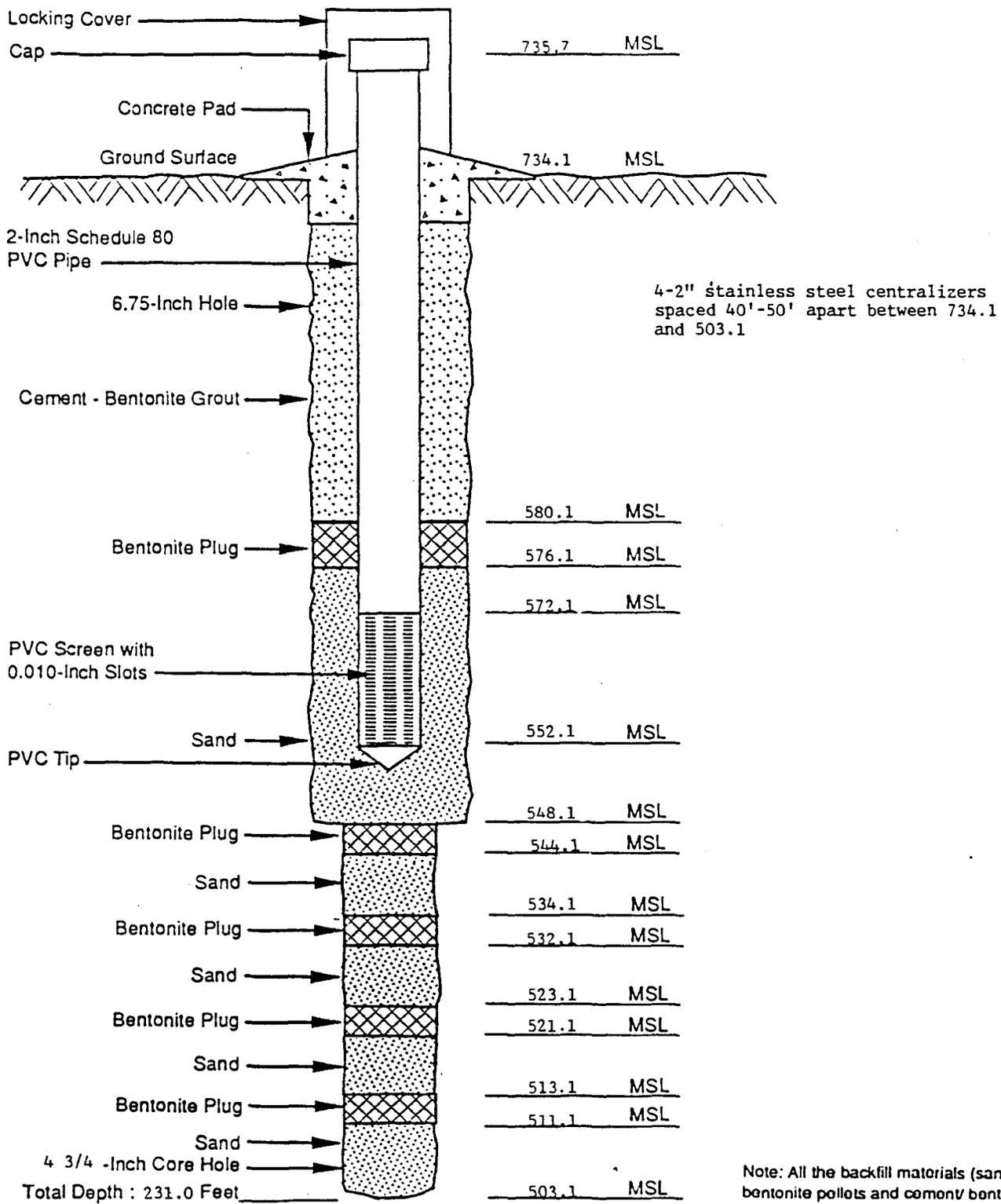
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





NOT TO SCALE

Note: All the backfill materials (sand, bentonite pellets and cement/ bentonite slurry) were placed by tremie.

Boring: BI 6  
 Location: N 245,951  
 E 2,174,687  
 Date(s) Installed: 1-24-90  
 Well Construction  
 Supervising Geologist: Mike Granger  
 Approved By: Shawn Wood

Date: 5-15-90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No.  
 BI 6

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 239,029 ft  
 EASTING: 2,175,454 ft  
 SURFACE ELEVATION: 670.2 ft

**SITE DESIGNATOR:** BIR 11

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

J.B. Underwood, Jr. and Wilma Underwood  
 1615 Hill Lane, Waxahachie, TX 75165

PHONE: 214-937-3490

**LESSEE:**

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: October 11, 1990

**AUTHORIZED ACCESS ROUTE:**

From Highway 66, turn south on Arrowhead Road to Old Maypearl Road. Turn right and continue to green water tank; turn left, continue 0.25 mile to abandoned white house. Well is in field north of the house.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 265.0 ft  
 SCREENED INTERVAL ELEVATION: 445.2-465.2 ft  
 LITHOLOGY SCREENED: AUSTINE/EAGLE  
 MEASURING POINT ELEVATION: 672.5 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 4 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

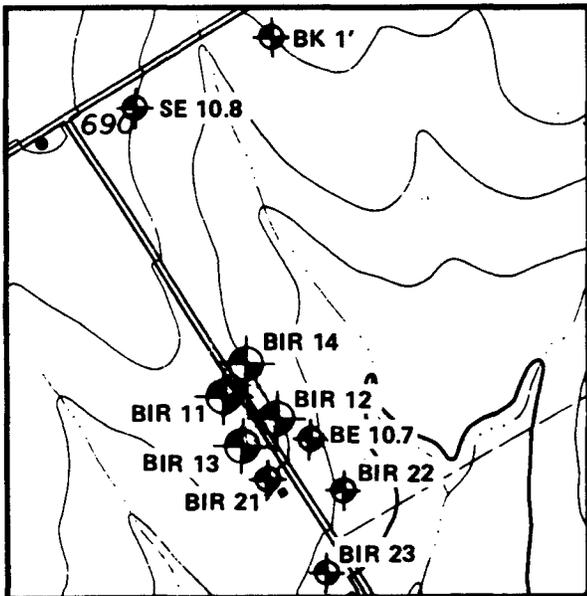
03/23/90 Elevation: 667.2 ft MSL  
 04/10/90 Elevation: 667.1 ft MSL  
 06/26/90 Elevation: 667.1 ft MSL

**LAST MONITORED**

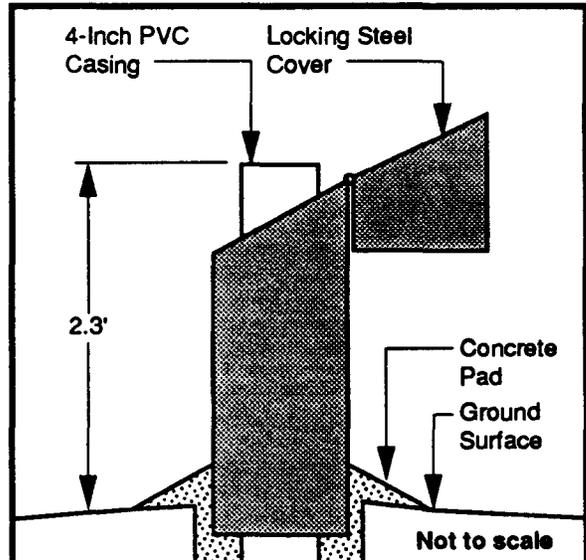
DATE: 6/26/90  
 WATER LEVEL: 667.1 ft  
 STATIC WATER LEVEL: 667.1 ft  
 OTHER:

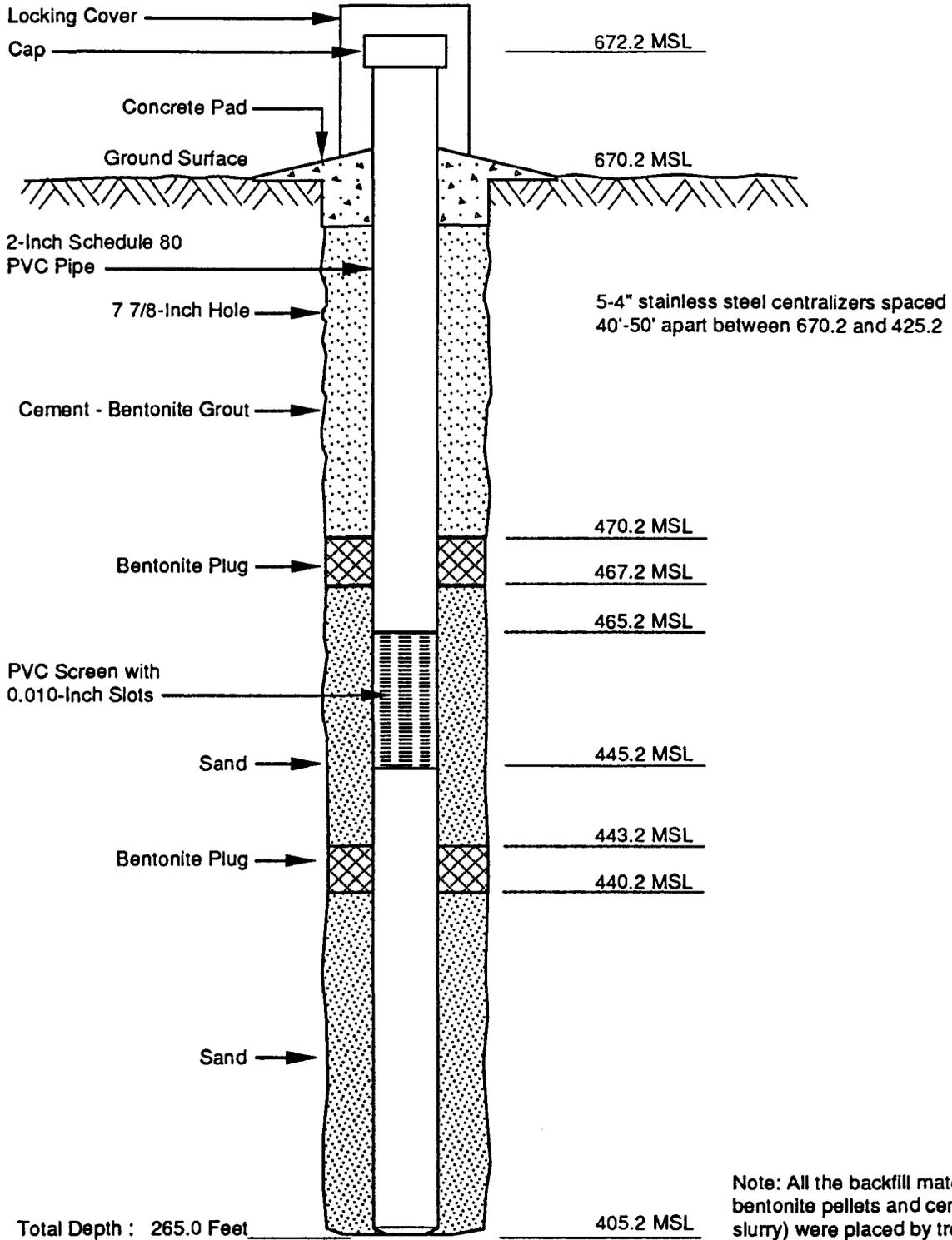
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: All the backfill materials (sand, bentonite pellets and cement/ bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BIR 11  
 Location: N 239,029  
 E 2,175,454  
 Date(s) Installed: 9/19-9/20/89  
 Well Construction  
 Supervising Geologist: Shawn Wood  
 Approved By: Shawn Wood

Date: 5/18/90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No. BIR 11

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 238,620 ft  
 EASTING: 2,175,708 ft  
 SURFACE ELEVATION: 665.3 ft

**SITE DESIGNATOR:**

BIR 21

**BUILT BY:**

Southwestern Laboratories

**LAND OWNER:**

J.B. Underwood, Jr. and Wilma Underwood  
 1615 Hill Lane, Waxahachie, TX 75165

PHONE: 214-937-3490

**LESSEE:**

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: October 11, 1990

**AUTHORIZED ACCESS ROUTE:**

From Highway 66; turn south on Arrowhead Road to Old Maypearl Road. Turn right and continue to green water tank. Turn left and continue 0.25 mile to abandoned white house on west side of road. Well is in field north of house.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	312.8 ft
SCREENED INTERVAL ELEVATION:	442.8-462.8 ft
LITHOLOGY SCREENED:	AUSTIN/EAGLE
MEASURING POINT ELEVATION:	667.1 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	4 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

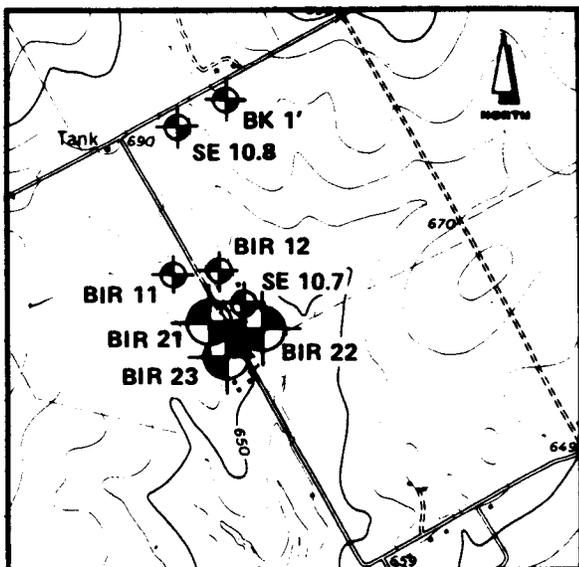
03/23/90 Elevation: 656.2 ft MSL  
 04/10/90 Elevation: 656.4 ft MSL  
 06/26/90 Elevation: 657.6 ft MSL

**LAST MONITORED**

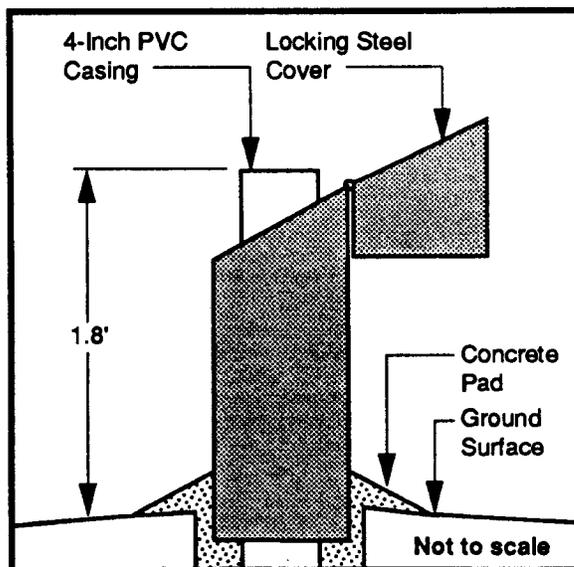
DATE:	6/26/90
WATER LEVEL:	657.6 ft
STATIC WATER LEVEL:	657.6 ft
OTHER:	

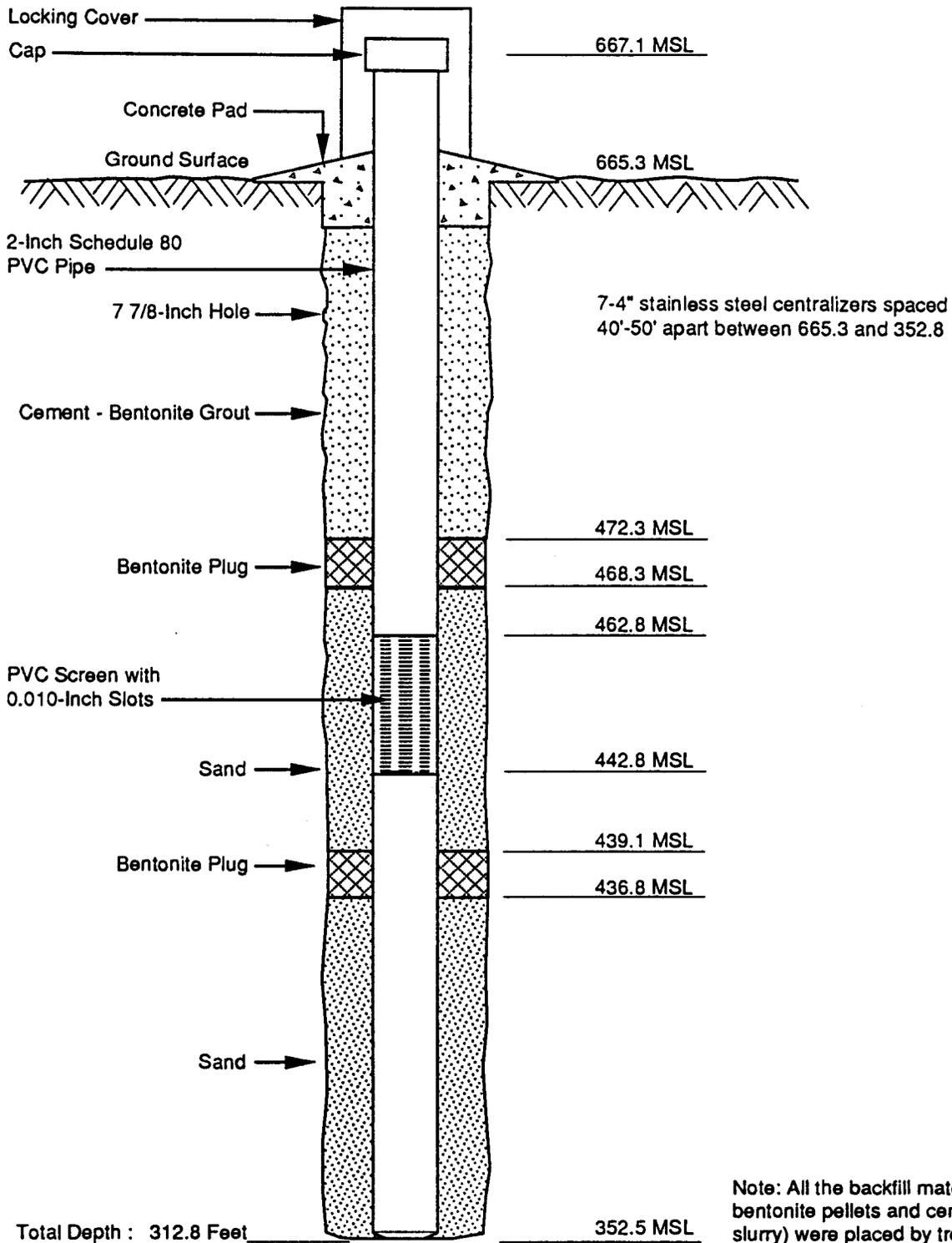
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: All the backfill materials (sand, bentonite pellets and cement/ bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BIR 21  
 Location: N 238,620  
 E 2,175,708  
 Date(s) Installed: 9/21/89  
 Well Construction  
 Supervising Geologist: Ron Randall  
 Approved By: Shawn Wood

Date: 5/18/90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No. BIR 21

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 232,079 ft  
 EASTING: 2,178,422 ft  
 SURFACE ELEVATION: 617.5 ft

**SITE DESIGNATOR:**

BIR 31

**BUILT BY:**

Southwestern Laboratories

**LAND OWNER:**

Raymond R. & Lucille Wheeler  
 Route 5, Box 83, Waxahachie, TX 75165

PHONE: 214-937-8039

**LESSEE:**

PHONE:

ACCESS COMPENSATION EXPIRATION DATE: October 10, 1990

**AUTHORIZED ACCESS ROUTE:**

Enter gate with Texas Longhorn sign at turn in road and follow trail 300 feet to well in field.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	295.0 ft
SCREENED INTERVAL ELEVATION:	442.5-462.5 ft
LITHOLOGY SCREENED:	AUSTIN/EAGLE
MEASURING POINT ELEVATION:	620.2 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	4 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

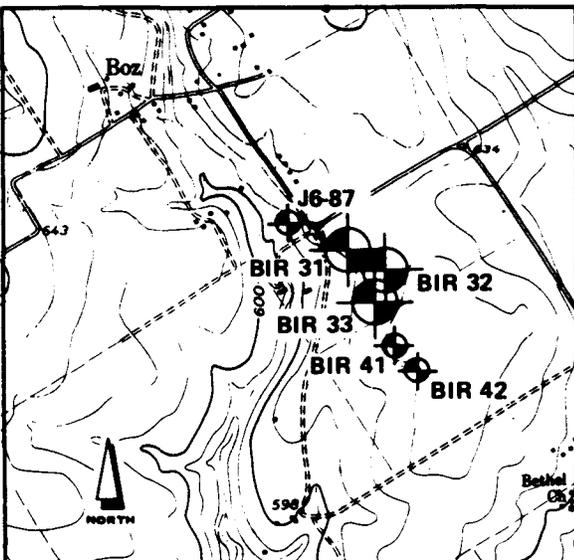
03/23/90 Elevation: 601.8 ft MSL  
 04/10/90 Elevation: 602.5 ft MSL  
 06/26/90 Elevation: 601.4 ft MSL

**LAST MONITORED**

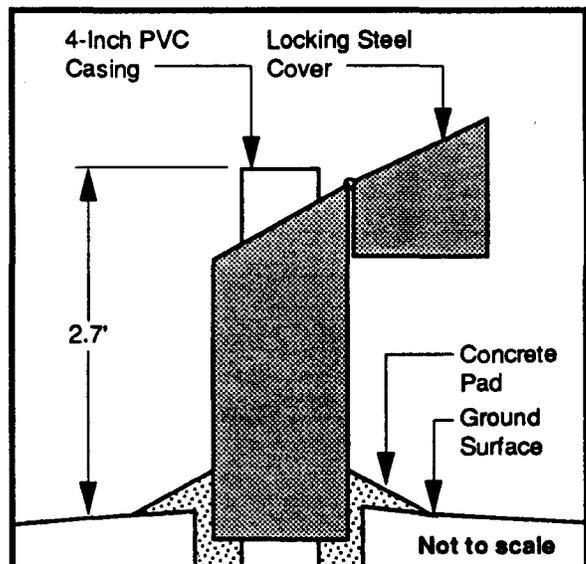
DATE: 6/26/90  
 WATER LEVEL: 601.4 ft  
 STATIC WATER LEVEL: 602.5 ft  
 OTHER:

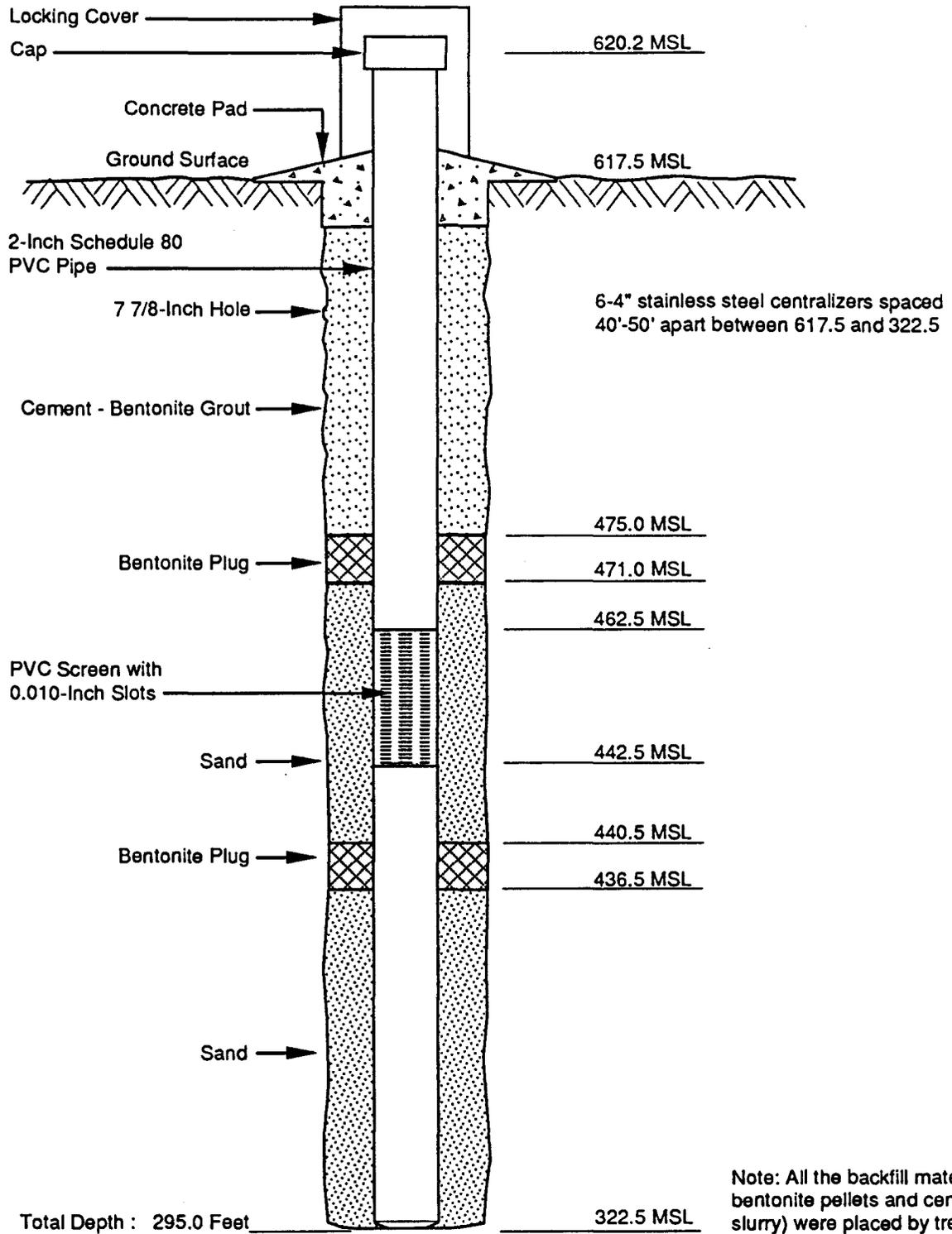
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: All the backfill materials (sand, bentonite pellets and cement/ bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BIR 31  
 Location: N 232,079  
 E 2,178,422  
 Date(s) Installed: 9/28-9/29/89  
 Well Construction  
 Supervising Geologist: E.C. Nicholas  
 Approved By: Shawn Wood

Date: 5/18/90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No. BIR 31

5/90

Figure

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 231,388 ft  
 EASTING: 2,178,618 ft  
 SURFACE ELEVATION: 618.7 ft

**SITE DESIGNATOR:**

BIR 41

**BUILT BY:**

Southwestern Laboratories

**LAND OWNER:**

Bobby D. and Dorothy A. Worsham  
 926 Cedar Ridge, Duncanville, TX 75137

PHONE: 214-296-1202  
 214-620-0814

**LESSEE:**

Route 5  
 Raymond R. Wheeler, Box 83, Waxahachie, TX 75165

PHONE: 214-937-8039

ACCESS COMPENSATION EXPIRATION DATE: October 9, 1990

**AUTHORIZED ACCESS ROUTE:**

From Bethel Road, enter gate 0.3 mile north of Bethel Church. Follow existing trail southwest to fence corner, proceed north along fence line through wire gap. Continue north to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	226.0 ft
SCREENED INTERVAL ELEVATION:	433.7-453.7 ft
LITHOLOGY SCREENED:	AUSTINE/EAGLE
MEASURING POINT ELEVATION:	621.3 ft Top of PVC
CASING MATERIAL:	PVC
DIAMETER:	4 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

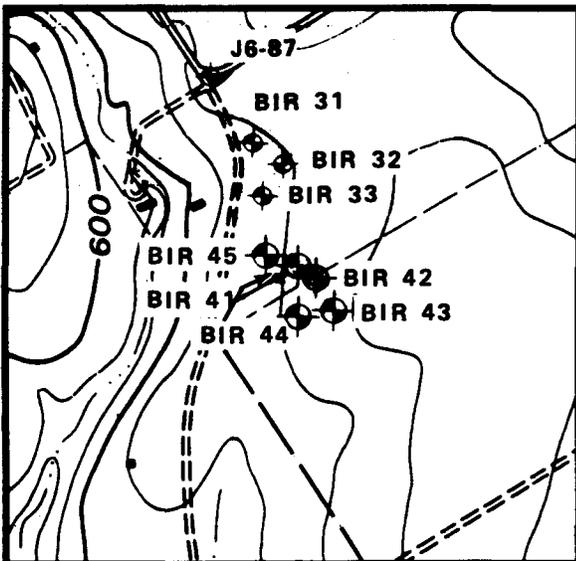
03/29/90 Elevation: 594.5 ft MSL  
 04/10/90 Elevation: 594.6 ft MSL  
 06/27/90 Elevation: 595.1 ft MSL

**LAST MONITORED**

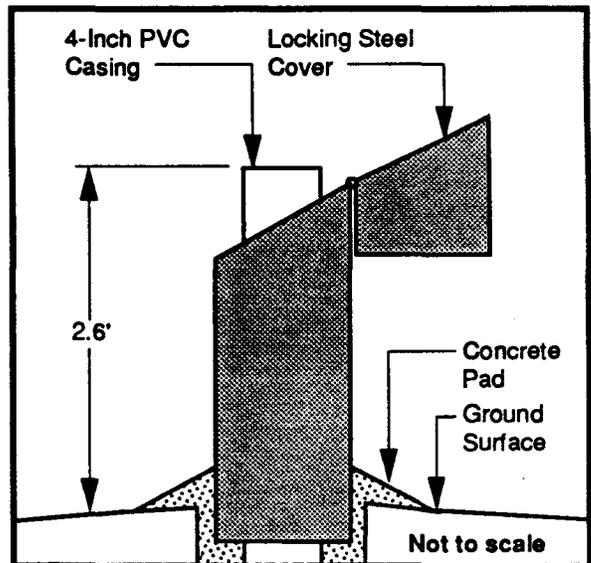
DATE:	6/27/90
WATER LEVEL:	595.1 ft
STATIC WATER LEVEL:	595.1 ft
OTHER:	

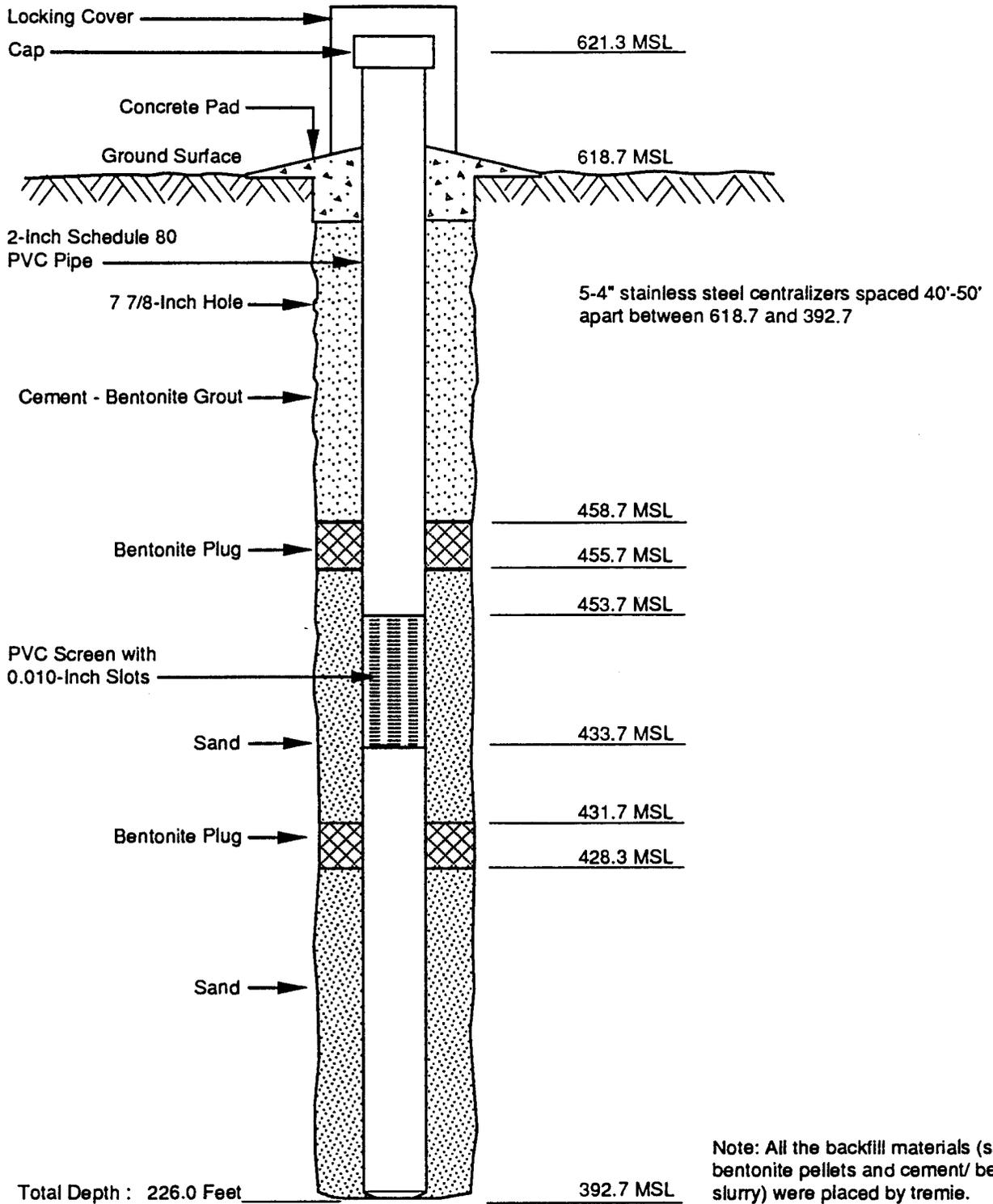
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: All the backfill materials (sand, bentonite pellets and cement/ bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BIR 41  
 Location: N 231,388  
 E 2,178,618  
 Date(s) Installed: 9/28-9/29/89  
 Well Construction  
 Supervising Geologist: Shawn Wood  
 Approved By: Shawn Wood

Date: 5/18/90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No. BIR 41

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING:	265,911 ft
EASTING:	2,250,528 ft
SURFACE ELEVATION:	440.3 ft

**SITE DESIGNATOR:** BIR 54

**BUILT BY:**  
Southwestern Laboratories

**LAND OWNER:**

Ackley, Inc., John Ackley, Secty/Treas.  
202 Jackson St., Box 398, Waxahachie, TX 75165

**PHONE:** 214-937-0068

**LESSEE:**

W.L. Pape, 208 S. Hampton, Desota, TX 75115

**PHONE:** 214-224-2483  
214-223-6410

**ACCESS COMPENSATION EXPIRATION DATE:** January 9, 1991

**AUTHORIZED ACCESS ROUTE:**

From State Route 879, turn north on Ebenezer Road. Continue 1.6 mile to Tammy Lane, turn east and proceed 0.5 mile to gate on south side of road. Follow trail around pond to well on the southwest side.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH:	421.0 ft
SCREENED INTERVAL ELEVATION:	244.3-264.3 ft
LITHOLOGY SCREENED:	TAYLOR/AUSTIN
MEASURING POINT ELEVATION:	442.6 Center of pressure gauge
CASING MATERIAL:	PVC
DIAMETER:	4 INCH
LOCK / KEY:	MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

12/16/89 Elevation:	435.9 ft MSL
02/16/90 Elevation:	442.2 ft MSL
04/07/90 Elevation:	452.1 ft MSL

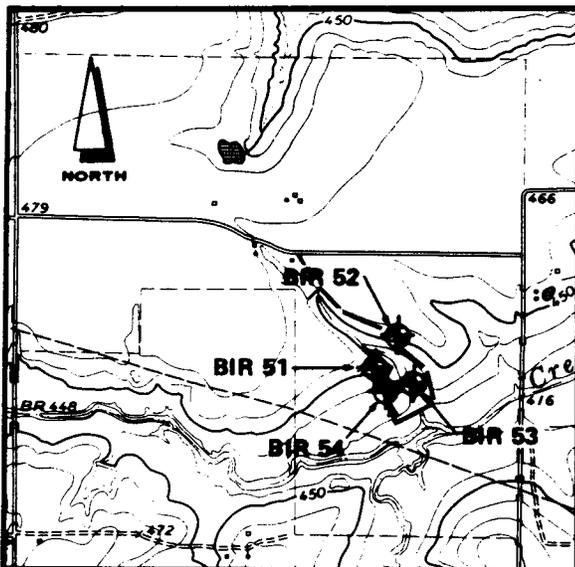
**LAST MONITORED**

DATE:	4/7/90
WATER LEVEL:	452.1 ft
STATIC WATER LEVEL:	N/A
OTHER:	

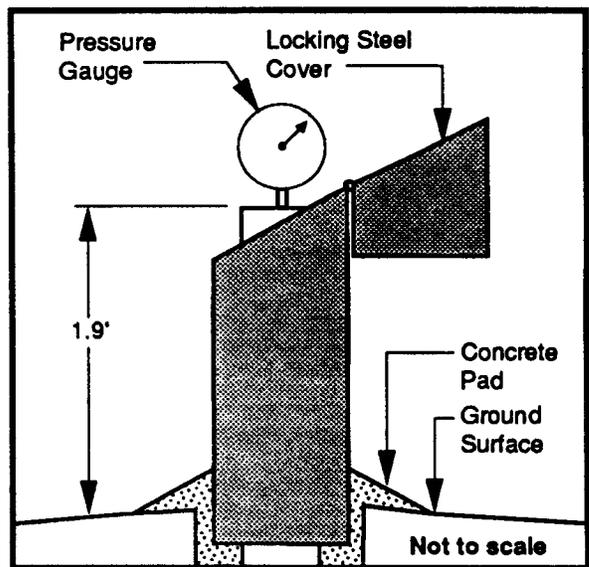
**COMMENTS:**

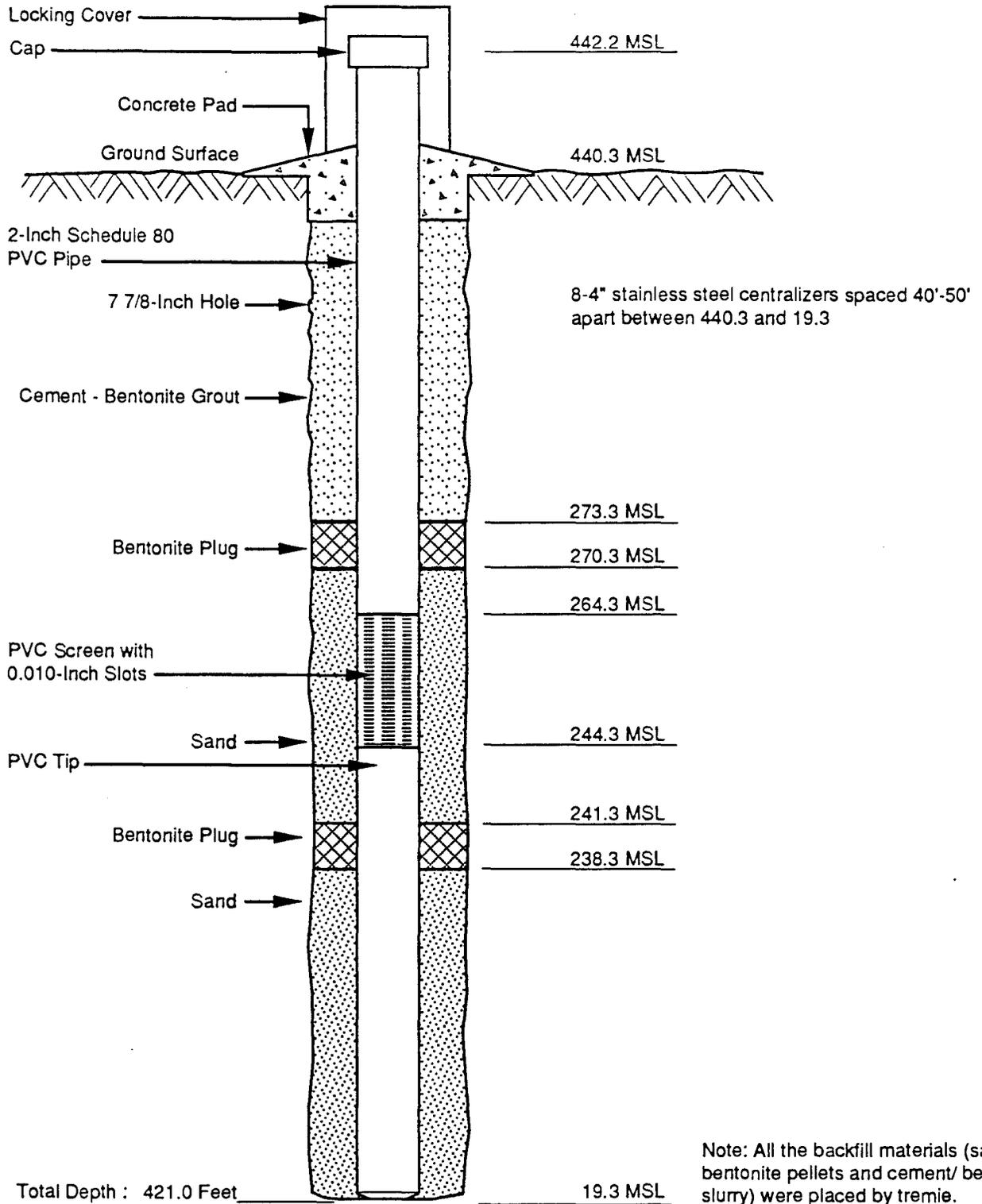
Broken pressure gauge replaced on June 27, 1990.

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Boring: BIR 54  
 Location: N 265,911  
           E 2,250,528  
 Date(s) Installed: 10/10-10/11/90  
 Well Construction  
 Supervising Geologist: Ron Randall  
 Approved By: Shawn Wood

Date: 5/21/90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No. BIR 54

**MONITORING WELL DESCRIPTION**

**SITE COORDINATES:**

NORTHING: 273,893 ft  
 EASTING: 2,247,359 ft  
 SURFACE ELEVATION: 452.2 ft

**SITE DESIGNATOR:** BIR 81

BUILT BY: Southwestern Laboratories

**LAND OWNER:**

Carl J. and Eulalia Schmolder  
 Route 3, Box 5A, Ferris, TX 75125

PHONE: 214-544-2894

**LESSEE:**

Billy Dodson, 1302 Sunset, Ennis, TX 75119

PHONE: 214-875-7073

ACCESS COMPENSATION EXPIRATION DATE: January 11, 1991

**AUTHORIZED ACCESS ROUTE:**

From State Route 878, 0.9 miles east of Ebenezer Road, enter gate behind old house, and proceed on trail 1.0 mile to well.

**WELL SPECIFICATIONS:**

(also see the attached as-built diagram)

TOTAL DEPTH: 405.0 ft  
 SCREENED INTERVAL ELEVATION: 302.2-320.2 ft  
 LITHOLOGY SCREENED: TAYLOR/AUSTIN  
 MEASURING POINT ELEVATION: 454.0 ft Top of PVC  
 CASING MATERIAL: PVC  
 DIAMETER: 4 INCH  
 LOCK / KEY: MASTER/2106

**GENERAL WATER LEVELS:**

JANUARY/90 - APRIL/90

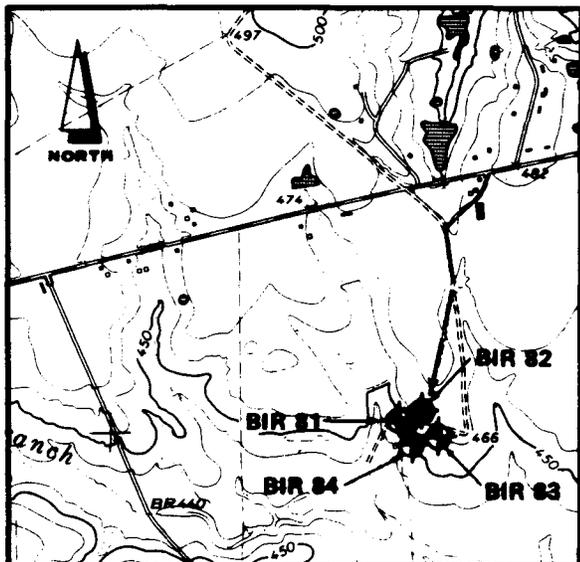
03/23/90 Elevation: 447.4 ft MSL  
 04/11/90 Elevation: 447.7 ft MSL  
 06/27/90 Elevation: 447.9 ft MSL

**LAST MONITORED**

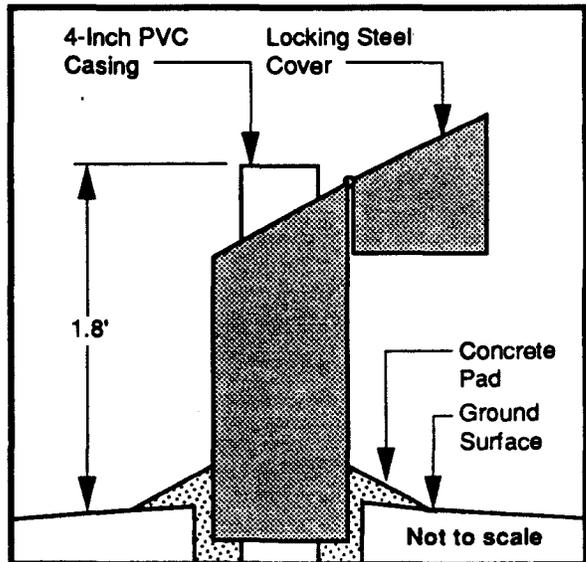
DATE: 6/27/90  
 WATER LEVEL: 447.9 ft  
 STATIC WATER LEVEL: 447.9 ft  
 OTHER:

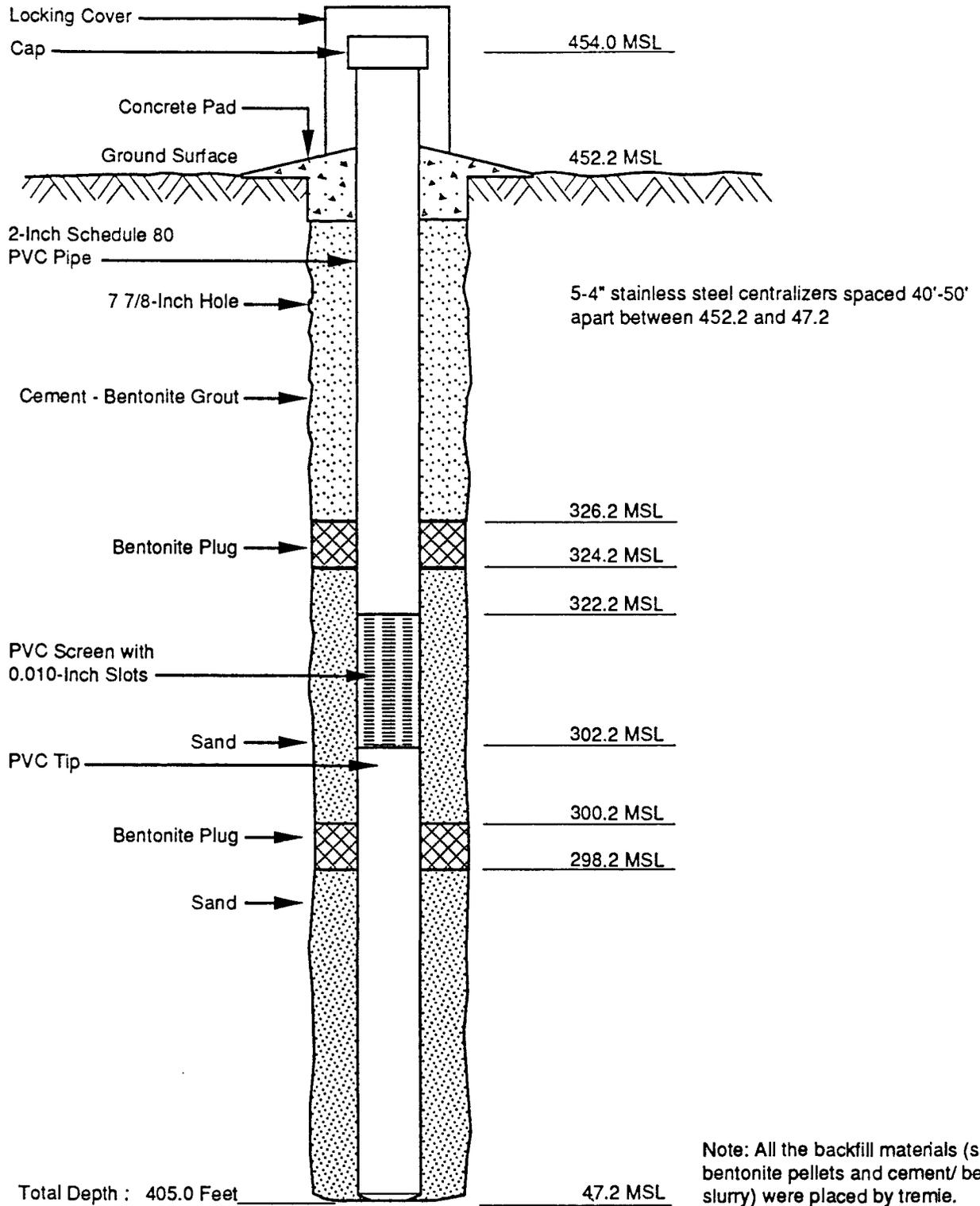
**COMMENTS:**

**MAP OF LOCATION:**



**SURFACE CONFIGURATION:**





Note: All the backfill materials (sand, bentonite pellets and cement/ bentonite slurry) were placed by tremie.

NOT TO SCALE

Boring: BIR 81  
 Location: N 273,893  
 E 2,247,359  
 Date(s) Installed: 12/4-12/5/90  
 Well Construction  
 Supervising Geologist: Mike Granger  
 Approved By: Shawn Wood

Date: 5/21/90

"As Built"  
 Well Construction Diagram  
 Observation Well  
 No. BIR 81