

By DJA Date 11/27/85

Job No. 9035 F1

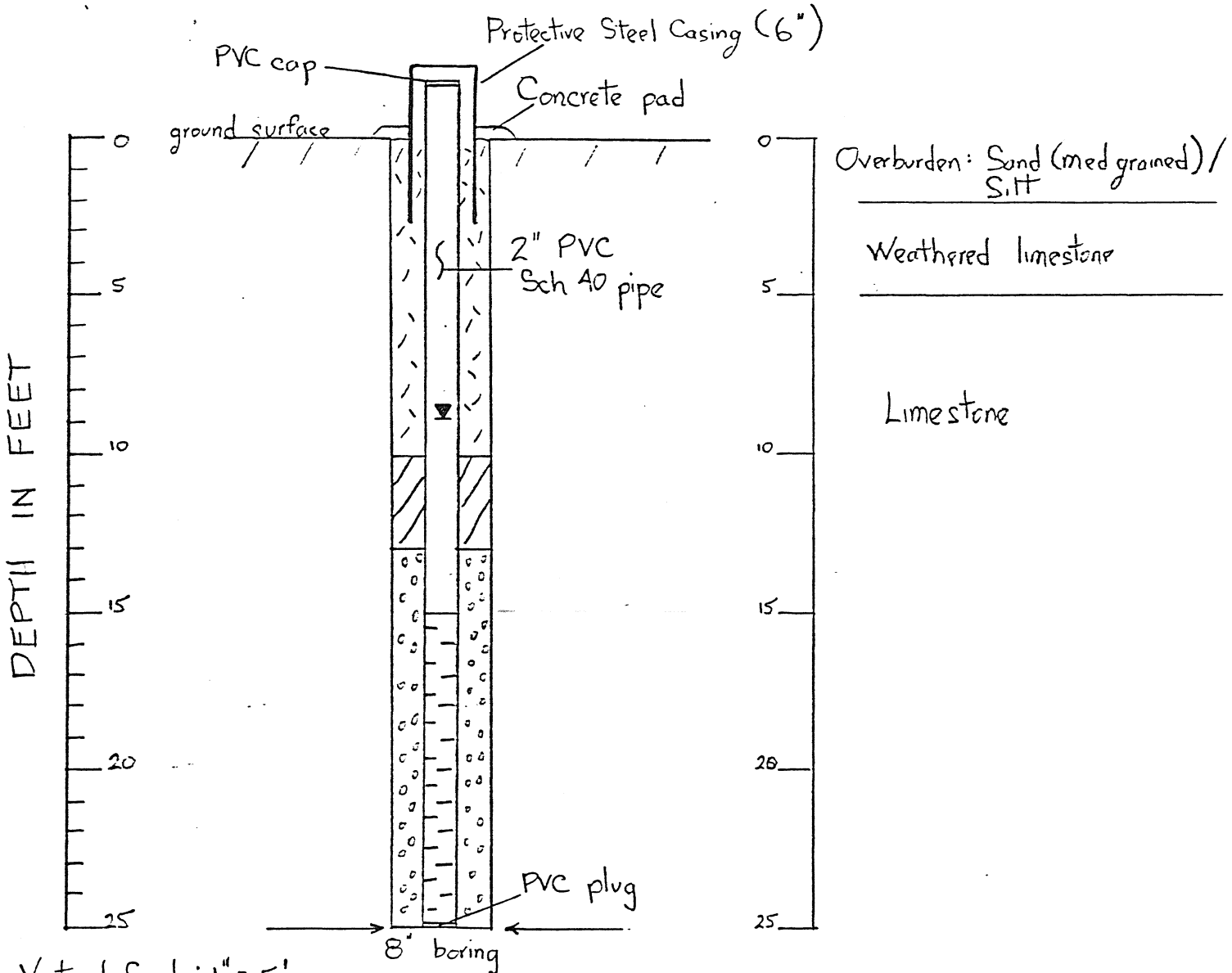
Chkd. by _____ Date _____

Sheet No. _____ of _____


Subject Lancaster SLF


Details for W-A


Date Drilled: 11/13/85
Well Depth: 25 ft.
Ground Elevation:
Elevation of Outer Casing:
Static Water Level Elevation:
Water Depth Below Ground: 8.75 ft (11/25)




Vertical Scale: 1" = 5'

 PVC Screen (60 Slot)

 Cement/bentonite grout

 Gravel Filter Pack

 Bentonite Pellet Seal

By DA Date 11/27/85



Job No. 9035 F1

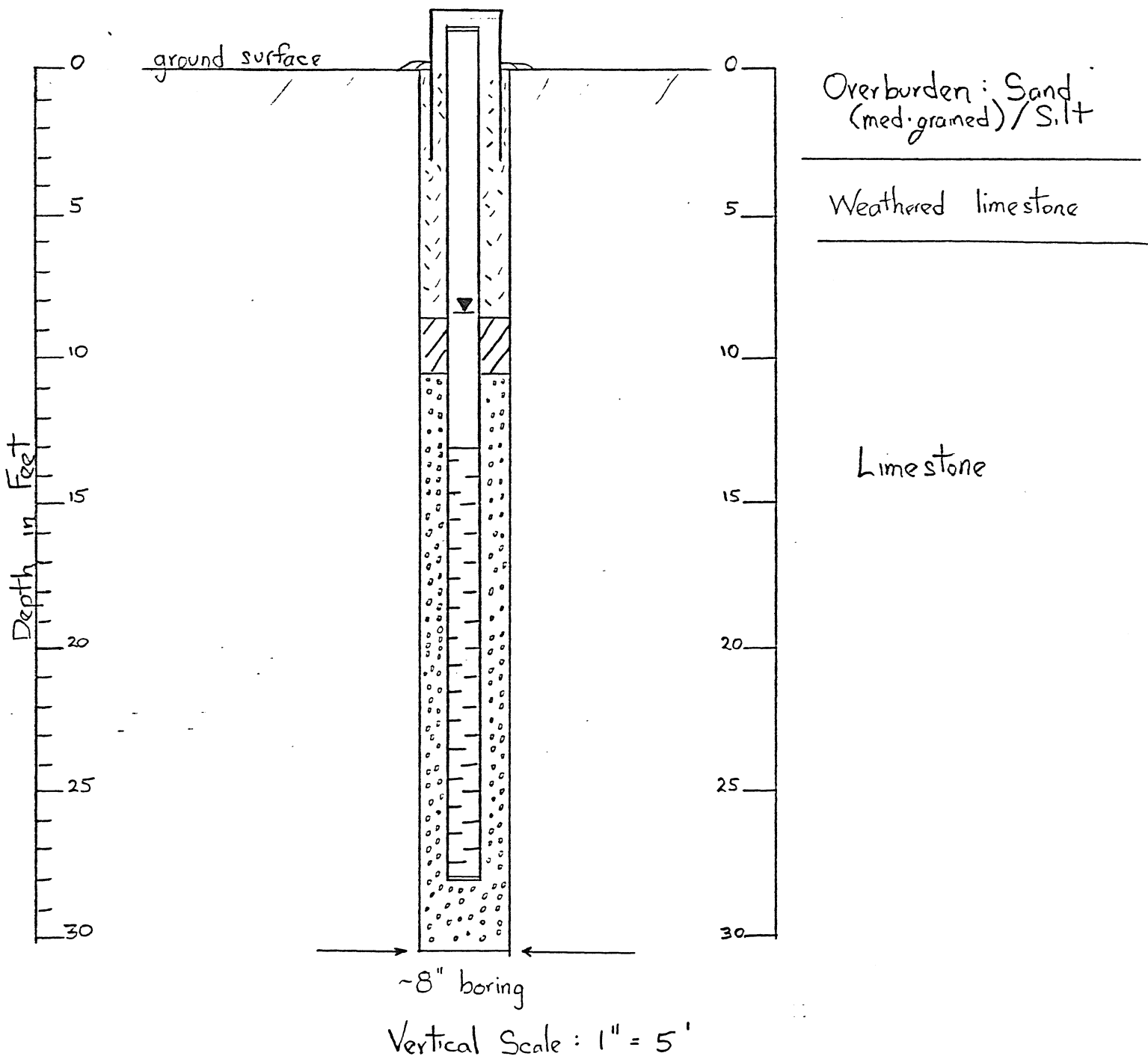
Chkd. by _____ Date _____

Sheet No. 1 of _____

Subject Lancaster SLF

Details for W-F

Date Drilled : 11/11/85
 Well Depth : 30.5 ft.
 Ground Elevation : _____
 Elevation of Outer Casing : _____
 Static Water Level Elevation : _____
 Water Depth Below Ground : ~8.2ft (11/25/85)



By DZA Date 11/27/85



Job No. 9035 F1

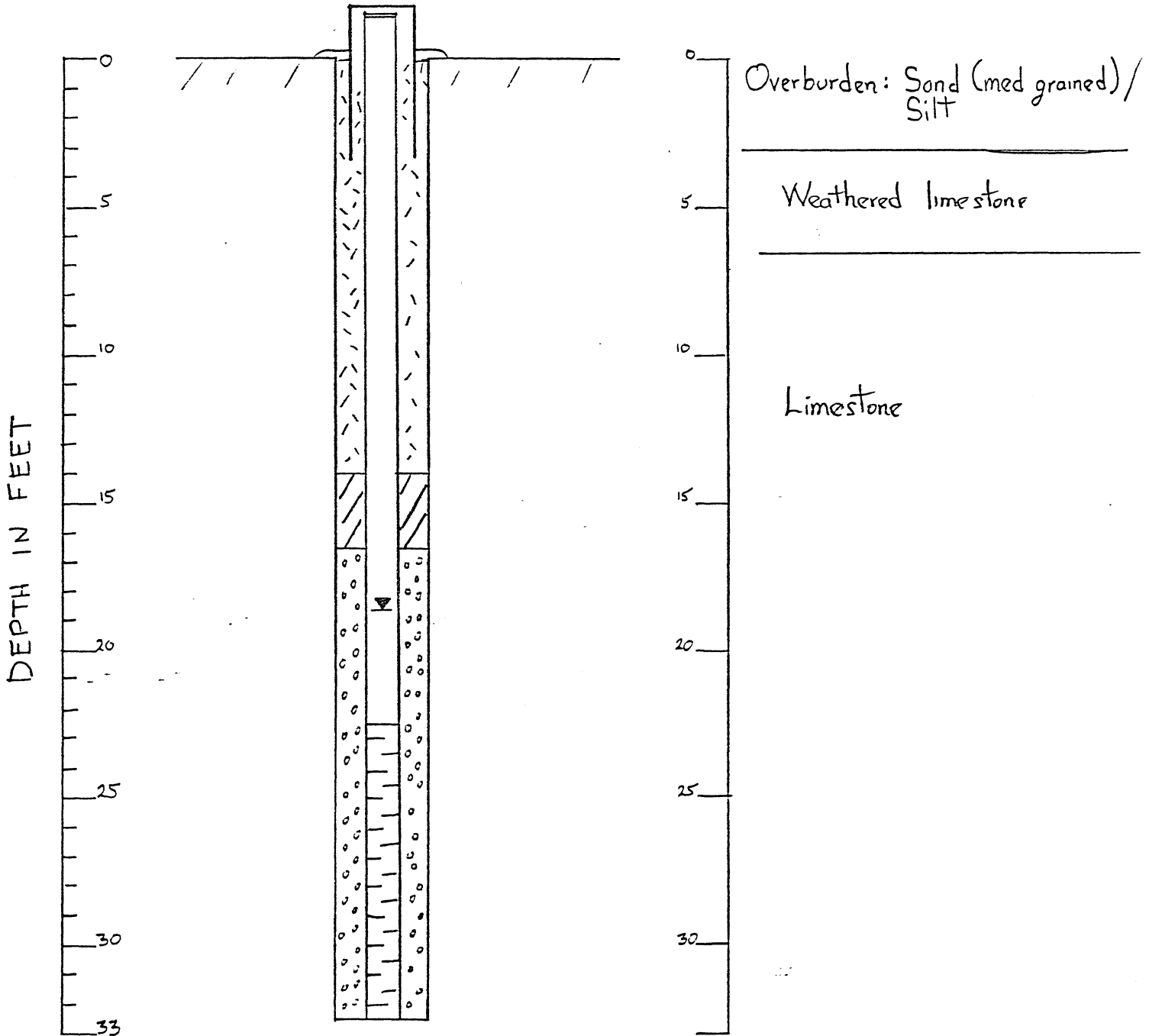
Chkd. by _____ Date _____

Sheet No. _____ of _____

Subject LANCASTER SLF

Details for W-D

Date Drilled: 11/15/85
Well Depth: 32.5 ft
Ground Elevation:
Elevation of Outer Casing:
Static Water Level Elevation:
Water Depth Below Ground: 18.6 ft (11/25)



By D.A. Date 11/27/85

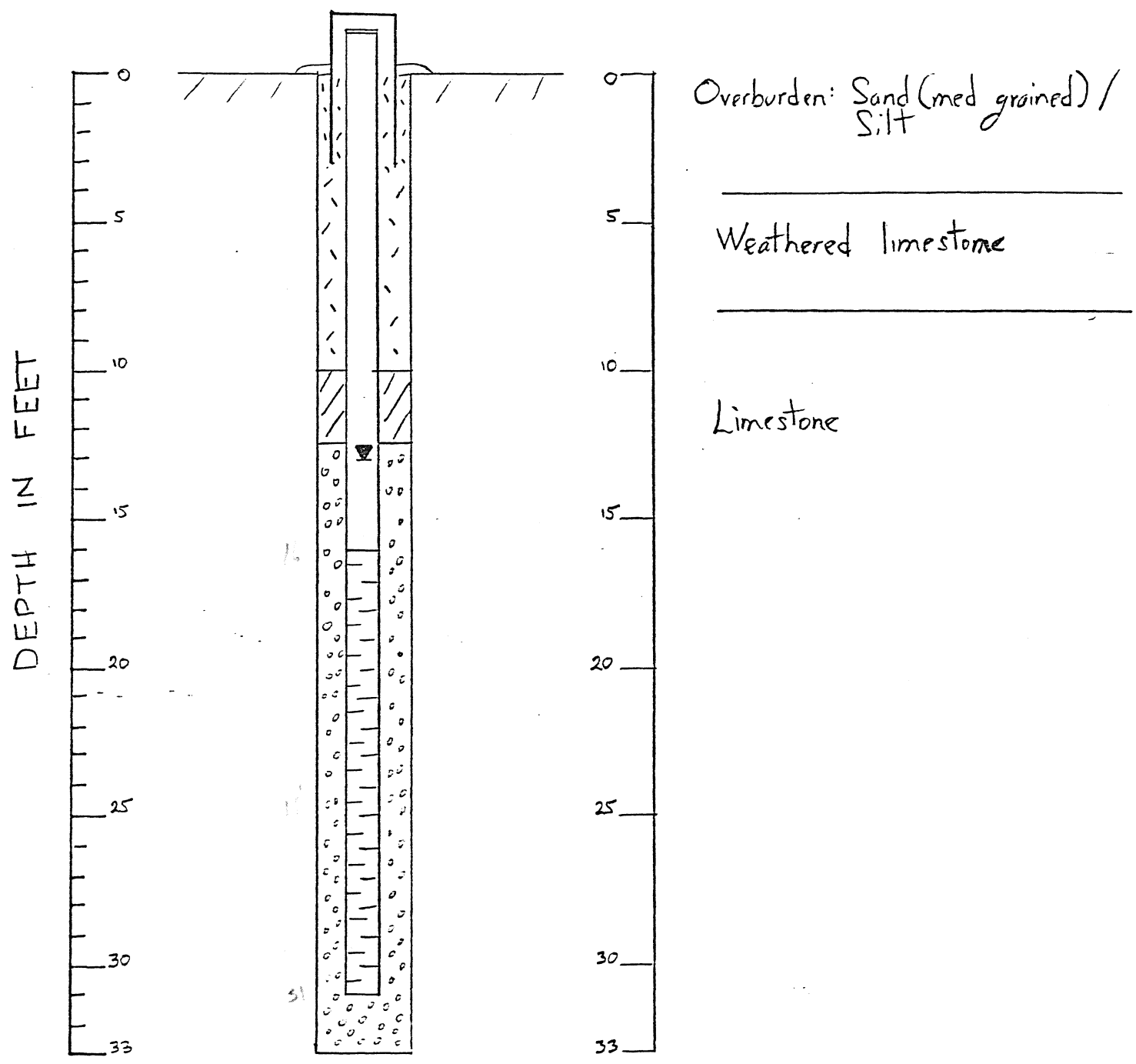
Job No. 4035 F1

Chkd. by _____ Date _____

Sheet No. _____ of _____

Subject Lancaster SLF Details for W-B

Date Drilled: 11/19/85
Well Depth: 33 ft.
Ground Elevation: _____
Elevation of Outer Casing: _____
Static Water Level Elevation: _____
Water Depth Below Ground: 13.0 ft (11/25)



By RA Date 11/27/85

Job No. 9035 F1

Chkd. by _____ Date _____

Sheet No. _____ of _____

Subject Lancaster SLF

Details for W-C

Date Drilled: 11/18/85

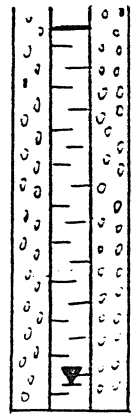
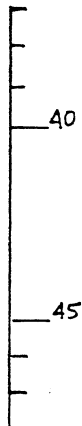
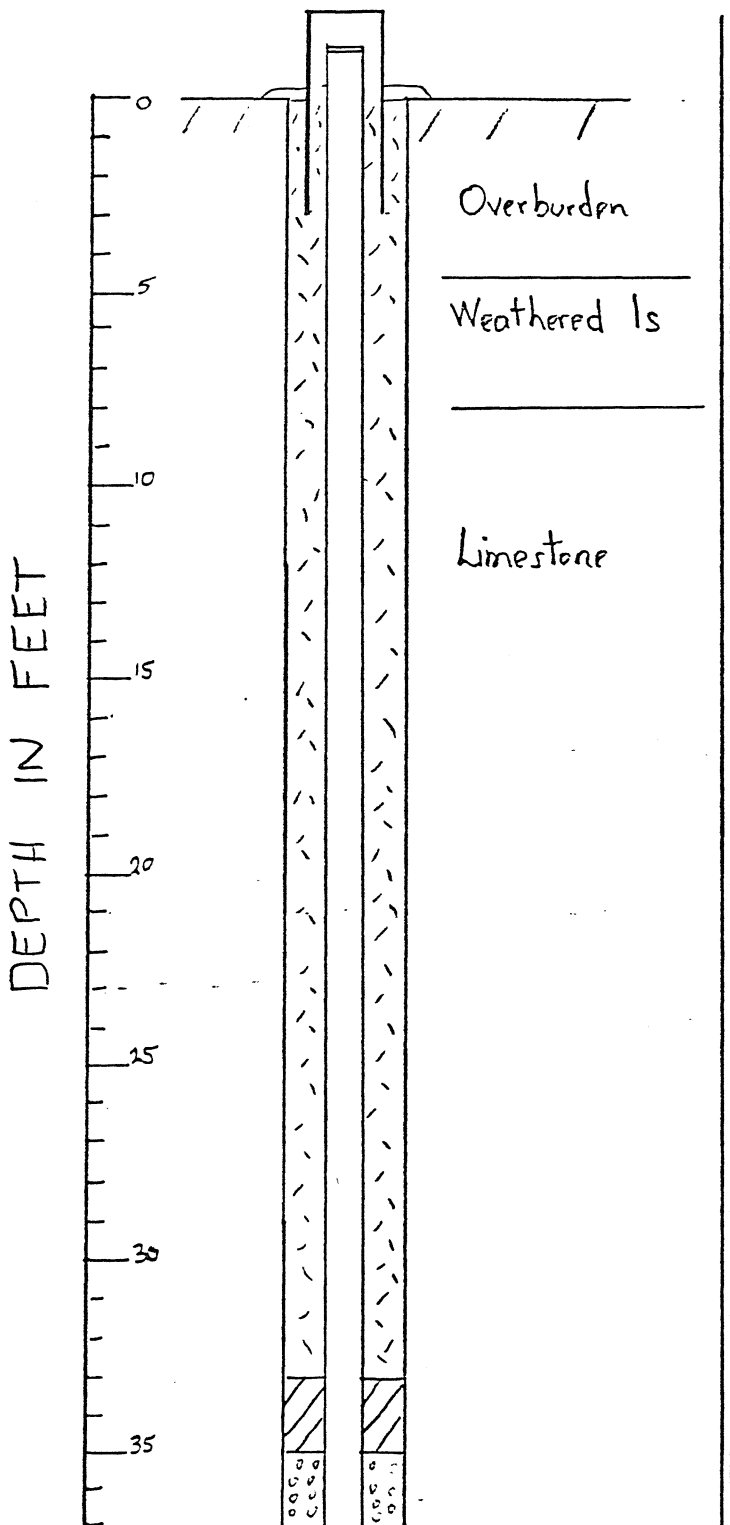
Well Depth: 47.5 ft.

Ground Elevation:

Elevation of Outer Casing:

Static Water Level Elevation:

Water Depth Below Ground: 46.7 ft (11/25)



Limestone

By TJA Date 11/27/85



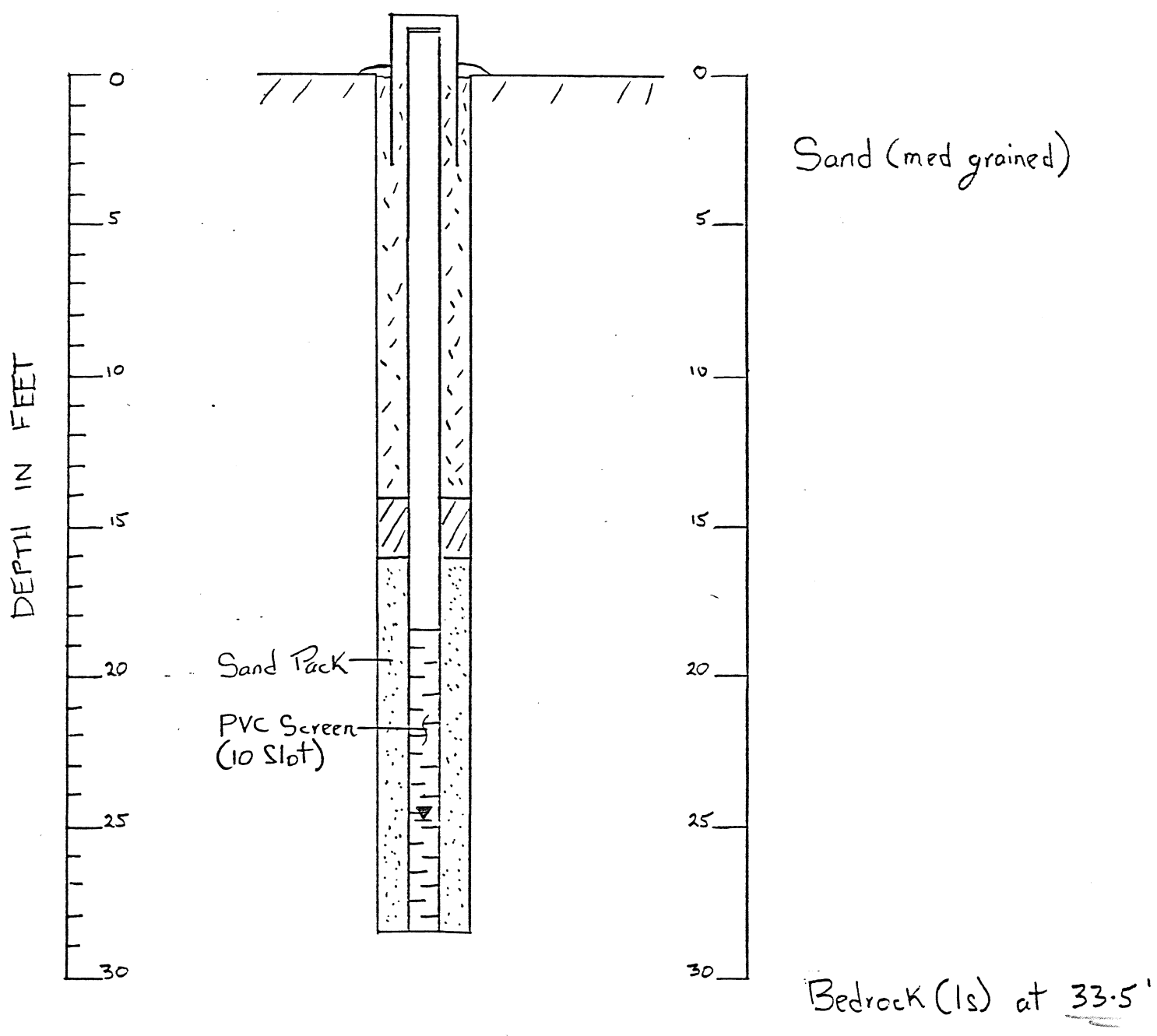
Job No. 9035 F1

Chkd. by _____ Date _____

Sheet No. _____ of _____

Subject Lancaster SLF Details for W-E

Date Drilled: 11/14/85
Well Depth: 28.5 ft.
Ground Elevation:
Elevation of Outer Casing:
Static Water level Elevation:
Water Depth Below Ground: 24.7 ft (11/25)





CONSULTING ENGINEERS

DAILY DRILLING REPORT

CONTRACTOR Frey Well Drilling DATE 11/13/85 SHIFT _____

DRILL I.D. _____ CARRIER _____

BOREHOLE NUMBER(S) THIS DATE W-A Lancaster

DRILL TIME LOG

CATEGORY	TOTAL HOURS	A.M.												P.M.											
		6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MOB/DEMOS		1																							
ROTARY/HAMMER DRILLING																									
CORE DRILLING																									
AVAILABLE RATE																									
OPERATING RATE																									
DOWN TIME																									
MOVING TIME																									
OTHER																									

REMARKS: Drilling: Tri-cone roller bit.

TESTING & SAMPLING	No.	TYPE	No.	TYPE	No.	TYPE	TOTAL
PERMEABILITY TEST							
SPOON OR DRIVE SAMPLE							

CONSUMABLE: DESCRIBE NATURE, QUANTITY, SIZE, ETC.

ITEM	QUANTITY	PART No.
PVC Well Screen (60 Slot)	10 ft.	5+5
PVC Riser Pipe	17 ft.	10+5+2
Bentonite Pellets	1 bucket	
Cement	7 bags.	
Gravel Pack	5 bags.	
Bentonite Powder	7 lbs.	
Protective Steel Casing (5') w/ locking cap.	1	

BOREHOLE	FROM		TO	FOOTAGE DRILLED	PIPE & CASING IN HOLE		BITS, CASING, SHOES, ETC.				
	No.	FEET	FEET	FEET	SIZE	FEET	SIZE	NUMBER	ON	OFF	FEET
W-A	0	25.0	25.0	25.0	2"	27					

PERSONNEL TIME LOG

POSITION	NAME	HOURS
FOREMAN		
DRILLER		
HELPER		

COMMENTS: Well Construction: 2 hr.

INSPECTOR _____

DRILLER _____

CONSULTANT'S REPRESENTATIVE David Hoysum

CONTRACTOR'S REPRESENTATIVE _____



CONSULTING ENGINEERS

DAILY DRILLING REPORT

CONTRACTOR Frey Well Drilling DATE 11/14/85 SHIFT _____

DRILL I.D. _____ CARRIER _____

BOREHOLE NUMBER(S) THIS DATE W-E / Lancaster

DRILL TIME LOG

CATEGORY	TOTAL HOURS	AM.												P.M.												
		6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
MOB/DEMOS		1																								
ROTARY/HAMMER DRILLING																										
CORE DRILLING																										
AVAILABLE RATE																										
OPERATING RATE																										
DOWN TIME																										
MOVING TIME																										
OTHER																										

REMARKS: Drilling: Tri-cone roller bit. Drilled to 39 ft. Hole collapsed to 28.5 ft due to Running Sand Conditions.

TESTING & SAMPLING	No.	TYPE	No.	TYPE	No.	TYPE	TOTAL
PERMEABILITY TEST							
SPOON OR DRIVE SAMPLE							

CONSUMABLE: DESCRIBE NATURE, QUANTITY, SIZE, ETC.

ITEM	QUANTITY	PART No.
PVC Well Screen (10 Slot)	10 ft.	5+5
PVC Riser Pipe	20 ft.	10 + 10
Sand Pack (100 lb bags)	13 bags.	
Bentonite Pellets	3 buckets	
Cement (94 lb bags)	11 bags.	
Bentonite Powder	11 lbs.	
Protective Casing...	1	

BOREHOLE	FROM		TO	FOOTAGE DRILLED	PIPE & CASING IN HOLE		BITS, CASING, SHOES, ETC.				
	No.	FEET	FEET	FEET	SIZE	FEET	SIZE	NUMBER	ON	OFF	FEET
W-E	0	39.0	39.0	39.0	2"	30.0					

PERSONNEL TIME LOG

POSITION	NAME	HOURS
FOREMAN		
DRILLER		
HELPER		

COMMENTS: Well Construction Time: 2 hr.

INSPECTOR _____

CONSULTANT'S REPRESENTATIVE

DRILLER _____

CONTRACTOR'S REPRESENTATIVE



W&E CONSULTING ENGINEERS

DAILY DRILLING REPORT

CONTRACTOR

Frey Well Drilling

DATE

11/18/85 - 11/19

SHIFT

DRILL I.D.

CARRIER

BOREHOLE NUMBER(S) THIS DATE

W-C

Lancaster

DRILL TIME LOG

CATEGORY	TOTAL HOURS	AM.						P.M.																			
		6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	
MOB/DEMOS																											
ROTARY/HAMMER DRILLING	<u>11/18</u>																										
CORE DRILLING																											
AVAILABLE RATE																											
OPERATING RATE																											
DOWN TIME																											
MOVING TIME																											
OTHER																											

REMARKS: Drilling: Air-Rotary Hammer

TESTING & SAMPLING	No.	TYPE	No.	TYPE	No.	TYPE	TOTAL
PERMEABILITY TEST							
SPOON OR DRIVE SAMPLE							

CONSUMABLE: DESCRIBE NATURE, QUANTITY, SIZE, ETC. 11/19

ITEM	QUANTITY	PART No.
<u>PVC Well Screen (60 Slot)</u>	<u>10 ft.</u>	<u>5+5</u>
<u>PVC Riser Pipe</u>	<u>39 ft.</u>	<u>10+10+10+5+2+2</u>
<u>Gravel Pack</u>	<u>5 bags.</u>	
<u>Bentonite Pellets</u>	<u>1 bucket</u>	
<u>Cement</u>	<u>21 bags.</u>	
<u>Bentonite Powder</u>	<u>21 lbs.</u>	
<u>Protective Steel Casing</u>	<u>1</u>	

BOREHOLE	FROM		TO	FOOTAGE DRILLED		PIPE & CASING IN HOLE		BITS, CASING, SHOES, ETC.			
	No.	FEET	FEET	FEET	SIZE	FEET	SIZE	NUMBER	ON	OFF	FEET
<u>W-C</u>	<u>0</u>	<u>47.5</u>	<u>47.5</u>	<u>47.5</u>	<u>2"</u>	<u>49</u>					

PERSONNEL TIME LOG		
POSITION	NAME	HOURS
FOREMAN		
DRILLER		
HELPER		

COMMENTS: Well Construction (11/19): 2.5 hr.

INSPECTOR _____

DRILLER _____

CONSULTANT'S REPRESENTATIVE
[Signature]
 CONTRACTOR'S REPRESENTATIVE

CONTRACTOR Frey Well Drilling DATE 11/19/85 SHIFT _____
 DRILL I.D. _____ CARRIER _____
 BOREHOLE NUMBER(S) THIS DATE W-B / Lancaster

DRILL TIME LOG

CATEGORY	TOTAL HOURS	A.M.						P.M.																		
		6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
MOB/DEMOS		1																								
ROTARY/HAMMER DRILLING																										
CORE DRILLING																										
AVAILABLE RATE																										
OPERATING RATE																										
DOWN TIME																										
MOVING TIME																										
OTHER																										

REMARKS: Drilling: Air-Rotary Hammer.

TESTING & SAMPLING	No.	TYPE	No.	TYPE	No.	TYPE	TOTAL
PERMEABILITY TEST							
SPOON OR DRIVE SAMPLE							

CONSUMABLE: DESCRIBE NATURE, QUANTITY, SIZE, ETC.

ITEM	QUANTITY	PART No.
PVC Well Screen (60 Slot)	15 ft.	5 + 5 + 5
PVC Riser Pipe	20 ft	(10 + 10) - 2
Gravel Pack	7.5 bags.	
Bentonite Pellets.	1 bucket	
Cement	7 bags.	
Bentonite Powder	7 lbs.	
Protective Steel Casing	1	

BOREHOLE	FROM		TO		FOOTAGE DRILLED	PIPE & CASING IN HOLE		BITS, CASING, SHOES, ETC.				
	No.	FEET	FEET	FEET		SIZE	FEET	SIZE	NUMBER	ON	OFF	FEET
W-B	0	33.0	33.0	33.0	2"	33						

PERSONNEL TIME LOG

POSITION	NAME	HOURS
FOREMAN		
DRILLER		
HELPER		

COMMENTS: Well Construction: 2 hr.

INSPECTOR _____ CONSULTANT'S REPRESENTATIVE [Signature]
 DRILLER _____ CONTRACTOR'S REPRESENTATIVE

CONTRACTOR Fray Well Drilling DATE 11/20/85 SHIFT _____
 DRILL I.D. _____ CARRIER _____
 BOREHOLE NUMBER(S) THIS DATE _____ Lancaster

DRILL TIME LOG

CATEGORY	TOTAL HOURS	A.M.						P.M.						A.M.											
		6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
MOB/DEMOS																									
ROTARY/HAMMER DRILLING																									
CORE DRILLING																									
AVAILABLE RATE																									
OPERATING RATE																									
DOWN TIME																									
MOVING TIME																									
OTHER																									

REMARKS: Construction of concrete pads around wells, venting of wells, painting of protective casings, general site clean-up.

TESTING & SAMPLING	No.	TYPE	No.	TYPE	No.	TYPE	TOTAL
PERMEABILITY TEST							
SPOON OR DRIVE SAMPLE							

CONSUMABLE: DESCRIBE NATURE, QUANTITY, SIZE, ETC.

ITEM	QUANTITY	PART No.
Cement (94 lb bags)	3 bags	
Sand (100 lb bags)	1/2 bag	
Crushed Stone (on-site)		
Paint - Spray Cans	3	
other: locks	6	

BOREHOLE No.	FROM	TO	FOOTAGE DRILLED	PIPE & CASING IN HOLE		BITS, CASING, SHOES, ETC.				
	FEET	FEET	FEET	SIZE	FEET	SIZE	NUMBER	ON	OFF	FEET

PERSONNEL TIME LOG

POSITION	NAME	HOURS
FOREMAN		
DRILLER		
HELPER		

COMMENTS:

INSPECTOR _____ CONSULTANT'S REPRESENTATIVE
 DRILLER _____ CONTRACTOR'S REPRESENTATIVE

