

PROJECT/PRODUCT NO.: Williston Interstate 89 (13)  
 HOLE NO.: SB-1  
 TO STATION: 581+00 ON STATE 226A  
 DATE CHECKED: 5-7-89

HOLE STATION NO. (299 23)	OFFSET	DEPTH	SOIL DESCRIPTION				LAB. CLASS.	GROUND. DEPT.
			Soil Type	Color	Moisture	Wt. %		
R1	0.0	0.0-0.3	Gravelly Sand	Light	17.5	17.5		
R2	0.0	0.3-0.5	Gravelly Sand	Light	17.5	17.5		
R3	0.0	0.5-0.8	Gravelly Sand	Light	17.5	17.5		
R4	0.0	0.8-1.0	Gravelly Sand	Light	17.5	17.5		
R5	0.0	1.0-1.2	Gravelly Sand	Light	17.5	17.5		
R6	0.0	1.2-1.5	Gravelly Sand	Light	17.5	17.5		
R7	0.0	1.5-1.8	Gravelly Sand	Light	17.5	17.5		
R8	0.0	1.8-2.0	Gravelly Sand	Light	17.5	17.5		
R9	0.0	2.0-2.2	Gravelly Sand	Light	17.5	17.5		
R10	0.0	2.2-2.5	Gravelly Sand	Light	17.5	17.5		
R11	0.0	2.5-2.8	Gravelly Sand	Light	17.5	17.5		
R12	0.0	2.8-3.0	Gravelly Sand	Light	17.5	17.5		
R13	0.0	3.0-3.2	Gravelly Sand	Light	17.5	17.5		
R14	0.0	3.2-3.5	Gravelly Sand	Light	17.5	17.5		
R15	0.0	3.5-3.8	Gravelly Sand	Light	17.5	17.5		
R16	0.0	3.8-4.0	Gravelly Sand	Light	17.5	17.5		
R17	0.0	4.0-4.2	Gravelly Sand	Light	17.5	17.5		
R18	0.0	4.2-4.5	Gravelly Sand	Light	17.5	17.5		
R19	0.0	4.5-4.8	Gravelly Sand	Light	17.5	17.5		
R20	0.0	4.8-5.0	Gravelly Sand	Light	17.5	17.5		
R21	0.0	5.0-5.2	Gravelly Sand	Light	17.5	17.5		
R22	0.0	5.2-5.5	Gravelly Sand	Light	17.5	17.5		
R23	0.0	5.5-5.8	Gravelly Sand	Light	17.5	17.5		
R24	0.0	5.8-6.0	Gravelly Sand	Light	17.5	17.5		
R25	0.0	6.0-6.2	Gravelly Sand	Light	17.5	17.5		
R26	0.0	6.2-6.5	Gravelly Sand	Light	17.5	17.5		
R27	0.0	6.5-6.8	Gravelly Sand	Light	17.5	17.5		
R28	0.0	6.8-7.0	Gravelly Sand	Light	17.5	17.5		
R29	0.0	7.0-7.2	Gravelly Sand	Light	17.5	17.5		
R30	0.0	7.2-7.5	Gravelly Sand	Light	17.5	17.5		
R31	0.0	7.5-7.8	Gravelly Sand	Light	17.5	17.5		
R32	0.0	7.8-8.0	Gravelly Sand	Light	17.5	17.5		
R33	0.0	8.0-8.2	Gravelly Sand	Light	17.5	17.5		
R34	0.0	8.2-8.5	Gravelly Sand	Light	17.5	17.5		
R35	0.0	8.5-8.8	Gravelly Sand	Light	17.5	17.5		
R36	0.0	8.8-9.0	Gravelly Sand	Light	17.5	17.5		
R37	0.0	9.0-9.2	Gravelly Sand	Light	17.5	17.5		
R38	0.0	9.2-9.5	Gravelly Sand	Light	17.5	17.5		
R39	0.0	9.5-9.8	Gravelly Sand	Light	17.5	17.5		
R40	0.0	9.8-10.0	Gravelly Sand	Light	17.5	17.5		

BORING NO. R-13

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
0	-	-	-	-	-	-
10	19		M	13.9%	A-4 S&S1	W = 13.9% GLACIAL TILL
20	89		M	9.3%	A-4 S&S1	W = 9.3% GLACIAL TILL
30	-	-	-	-	-	-
40	-	-	-	-	-	-
50	-	-	-	-	-	-
60	-	-	-	-	-	-
70	-	-	-	-	-	-
80	-	-	-	-	-	-
90	-	-	-	-	-	-

ELEV. \_\_\_\_\_

BORING NO. R-14A

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
0	-	-	-	-	-	-
10	17		M	12.3%	A-4 S&S1	W = 12.3% GLACIAL TILL
20	44		M	9.1%	A-4 S&S1	W = 9.1% GLACIAL TILL
30	44		M	7.5%	A-4 S&S1	W = 7.5% GLACIAL TILL
40	44		M	8.5%	A-4 S&S1	W = 8.5% GLACIAL TILL
50	-	-	-	-	-	-
60	-	-	-	-	-	-
70	-	-	-	-	-	-
80	-	-	-	-	-	-
90	-	-	-	-	-	-

ELEV. \_\_\_\_\_

BORING NO. R-16

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
0	-	-	-	-	-	-
10	91		M	7.8%	A-4 S&S1	W = 7.8% NO SAMPLE, BOULDER
20	-	-	-	-	-	-
30	-	-	-	-	-	-
40	-	-	-	-	-	-
50	-	-	-	-	-	-
60	-	-	-	-	-	-
70	-	-	-	-	-	-
80	-	-	-	-	-	-
90	-	-	-	-	-	-

ELEV. \_\_\_\_\_

BORING NO. B-17A

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
0	-	-	-	-	-	-
10	19		M	13.9%	A-4 S&S1	W = 13.9% GLACIAL TILL
20	89		M	9.3%	A-4 S&S1	W = 9.3% GLACIAL TILL
30	-	-	-	-	-	-
40	-	-	-	-	-	-
50	-	-	-	-	-	-
60	-	-	-	-	-	-
70	-	-	-	-	-	-
80	-	-	-	-	-	-
90	-	-	-	-	-	-

ELEV. \_\_\_\_\_

PROJECT/PRODUCT NO.: Williston Interstate 89 (13)  
 HOLE NO.: SB-1  
 TO STATION: 581+00 ON STATE 226A  
 DATE CHECKED: 5-7-89

HOLE STATION NO.	OFFSET	DEPTH	SOIL DESCRIPTION				LAB. CLASS.	GROUND. DEPT.
			Soil Type	Color	Moisture	Wt. %		
SB1	0.0	0.0-0.3	Gravelly Sand	Light	17.5	17.5		
SB2	0.0	0.3-0.5	Gravelly Sand	Light	17.5	17.5		
SB3	0.0	0.5-0.8	Gravelly Sand	Light	17.5	17.5		
SB4	0.0	0.8-1.0	Gravelly Sand	Light	17.5	17.5		
SB5	0.0	1.0-1.2	Gravelly Sand	Light	17.5	17.5		
SB6	0.0	1.2-1.5	Gravelly Sand	Light	17.5	17.5		
SB7	0.0	1.5-1.8	Gravelly Sand	Light	17.5	17.5		
SB8	0.0	1.8-2.0	Gravelly Sand	Light	17.5	17.5		
SB9	0.0	2.0-2.2	Gravelly Sand	Light	17.5	17.5		
SB10	0.0	2.2-2.5	Gravelly Sand	Light	17.5	17.5		
SB11	0.0	2.5-2.8	Gravelly Sand	Light	17.5	17.5		
SB12	0.0	2.8-3.0	Gravelly Sand	Light	17.5	17.5		
SB13	0.0	3.0-3.2	Gravelly Sand	Light	17.5	17.5		
SB14	0.0	3.2-3.5	Gravelly Sand	Light	17.5	17.5		
SB15	0.0	3.5-3.8	Gravelly Sand	Light	17.5	17.5		
SB16	0.0	3.8-4.0	Gravelly Sand	Light	17.5	17.5		
SB17	0.0	4.0-4.2	Gravelly Sand	Light	17.5	17.5		
SB18	0.0	4.2-4.5	Gravelly Sand	Light	17.5	17.5		
SB19	0.0	4.5-4.8	Gravelly Sand	Light	17.5	17.5		
SB20	0.0	4.8-5.0	Gravelly Sand	Light	17.5	17.5		
SB21	0.0	5.0-5.2	Gravelly Sand	Light	17.5	17.5		
SB22	0.0	5.2-5.5	Gravelly Sand	Light	17.5	17.5		
SB23	0.0	5.5-5.8	Gravelly Sand	Light	17.5	17.5		
SB24	0.0	5.8-6.0	Gravelly Sand	Light	17.5	17.5		
SB25	0.0	6.0-6.2	Gravelly Sand	Light	17.5	17.5		
SB26	0.0	6.2-6.5	Gravelly Sand	Light	17.5	17.5		
SB27	0.0	6.5-6.8	Gravelly Sand	Light	17.5	17.5		
SB28	0.0	6.8-7.0	Gravelly Sand	Light	17.5	17.5		
SB29	0.0	7.0-7.2	Gravelly Sand	Light	17.5	17.5		
SB30	0.0	7.2-7.5	Gravelly Sand	Light	17.5	17.5		
SB31	0.0	7.5-7.8	Gravelly Sand	Light	17.5	17.5		
SB32	0.0	7.8-8.0	Gravelly Sand	Light	17.5	17.5		
SB33	0.0	8.0-8.2	Gravelly Sand	Light	17.5	17.5		
SB34	0.0	8.2-8.5	Gravelly Sand	Light	17.5	17.5		
SB35	0.0	8.5-8.8	Gravelly Sand	Light	17.5	17.5		
SB36	0.0	8.8-9.0	Gravelly Sand	Light	17.5	17.5		
SB37	0.0	9.0-9.2	Gravelly Sand	Light	17.5	17.5		
SB38	0.0	9.2-9.5	Gravelly Sand	Light	17.5	17.5		
SB39	0.0	9.5-9.8	Gravelly Sand	Light	17.5	17.5		
SB40	0.0	9.8-10.0	Gravelly Sand	Light	17.5	17.5		

PROJECT Williston NO. TR 089-2(13)  
 STRUCTURE IDENTIFICATION: Interstate 89 HOLE NO. SB-1  
 FIELD IDENTIFICATION: Gravelly Sand LABORATORY CLASSIFICATION: A-4 S&S1

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
0	-	-	-	-	-	-
10	17		M	12.3%	A-4 S&S1	W = 12.3% GLACIAL TILL
20	44		M	9.1%	A-4 S&S1	W = 9.1% GLACIAL TILL
30	44		M	7.5%	A-4 S&S1	W = 7.5% GLACIAL TILL
40	44		M	8.5%	A-4 S&S1	W = 8.5% GLACIAL TILL
50	-	-	-	-	-	-
60	-	-	-	-	-	-
70	-	-	-	-	-	-
80	-	-	-	-	-	-
90	-	-	-	-	-	-

ELEV. \_\_\_\_\_

PROJECT Williston NO. TR 089-2(13)  
 STRUCTURE IDENTIFICATION: Interstate 89 HOLE NO. SB-1  
 FIELD IDENTIFICATION: Gravelly Sand LABORATORY CLASSIFICATION: A-4 S&S1

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
0	-	-	-	-	-	-
10	17		M	12.3%	A-4 S&S1	W = 12.3% GLACIAL TILL
20	44		M	9.1%	A-4 S&S1	W = 9.1% GLACIAL TILL
30	44		M	7.5%	A-4 S&S1	W = 7.5% GLACIAL TILL
40	44		M	8.5%	A-4 S&S1	W = 8.5% GLACIAL TILL
50	-	-	-	-	-	-
60	-	-	-	-	-	-
70	-	-	-	-	-	-
80	-	-	-	-	-	-
90	-	-	-	-	-	-

ELEV. \_\_\_\_\_

PROJECT Williston NO. TR 089-2(13)  
 STRUCTURE IDENTIFICATION: Interstate 89 HOLE NO. SB-1  
 FIELD IDENTIFICATION: Gravelly Sand LABORATORY CLASSIFICATION: A-4 S&S1

DEPTH	BLOWS ON CASING	STANDARD PENETRATION	SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
0	-	-	-	-	-	-
10	17		M	12.3%	A-4 S&S1	W = 12.3% GLACIAL TILL
20	44		M	9.1%	A-4 S&S1	W = 9.1% GLACIAL TILL
30	44		M	7.5%	A-4 S&S1	W = 7.5% GLACIAL TILL
40	44		M	8.5%	A-4 S&S1	W = 8.5% GLACIAL TILL
50	-	-	-	-	-	-
60	-					