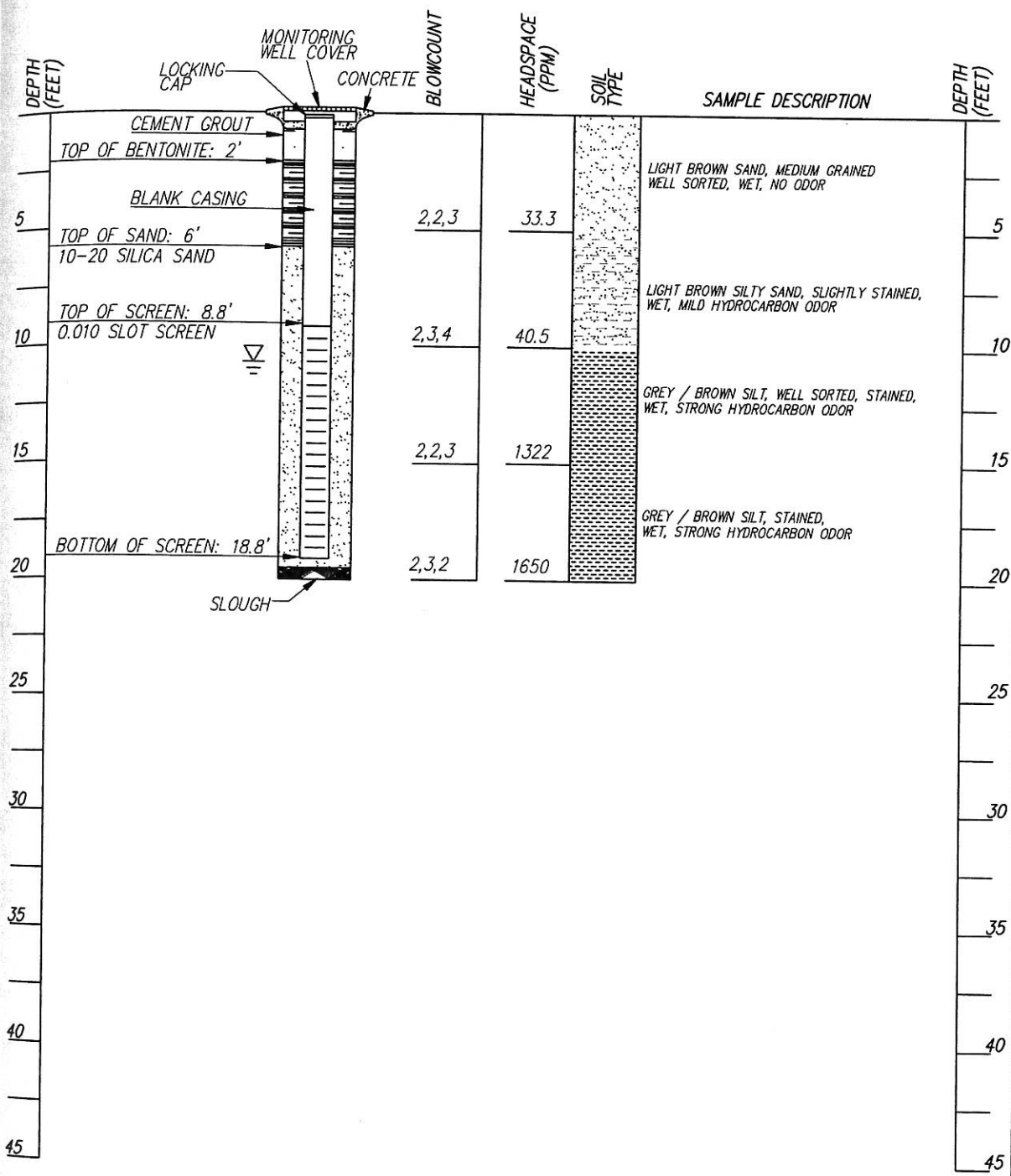
WELL COMPLETION DATA



SOIL BORING LOG

BLOWCOUNT	HEADSPACE (PPM)	SOIL TYPE	SAMPLE DESCRIPTION
2,2,3	33.3		LIGHT BROWN SAND, MEDIUM GRAINED WELL SORTED, WET, NO ODOR
2,3,4	40.5		LIGHT BROWN SILTY SAND, SLIGHTLY STAINED, WET, MILD HYDROCARBON ODOR
2,2,3	1322		GREY / BROWN SILT, WELL SORTED, STAINED, WET, STRONG HYDROCARBON ODOR
2,3,2	1650		GREY / BROWN SILT, STAINED, WET, STRONG HYDROCARBON ODOR

DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: MARCH 21, 2000
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: SPLIT SPOON
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 20 FT
TOTAL SAMPLE DEPTH: 20 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

APPENDIX A.1.e

MONITORING WELL MW-14 - SOIL BORING LOG/ WELL COMPLETION DIAGRAM
LOVELACE PROPERTY
LAS CRUCES, NEW MEXICO

SOUDER, MILLER & ASSOCIATES
CIVIL/ENVIRONMENTAL SCIENTISTS & ENGINEERS
401 Seventeenth Street, Suite 4
Las Cruces, New Mexico 88005
(505) 647-0799
Santa Fe - Farmington
Albuquerque - Las Cruces
MILLER ENGINEERS, INC.

DRAWN A.E. 4-00
CHECKED A.E. 4-00
APPROVED KEL 4-00 NMCS#008

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531234б
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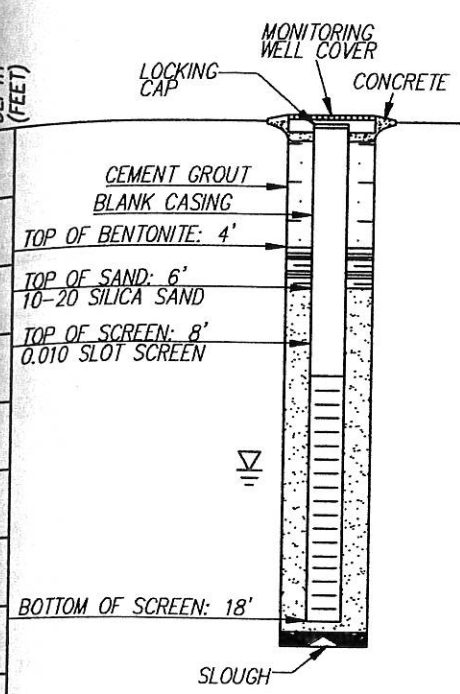
WELL COMPLETION DATA



SOIL BORING LOG

HEADSPACE (PPM)	SOIL TYPE	SAMPLE DESCRIPTION
		DARK BROWN SILTY SAND, WELL SORTED, UNCONSOLIDATED, DRY
1.7		
		DARK BROWN SILTY CLAY, UNCONSOLIDATED, SLIGHTLY MOIST
1.1		LIGHT BROWN FINE GRAINED SAND, WELL SORTED, UNCONSOLIDATED, DRY
		LIGHT BROWN SANDY CLAY, UNCONSOLIDATED, DRY
1.0		LIGHT BROWN FINE GRAINED SAND, WELL SORTED, UNCONSOLIDATED, WET
		DARK BROWN CLAY WITH SOME SILT, UNCONSOLIDATED, VERY WET
1.4		LIGHT GRAY FINE GRAINED SAND, WELL SORTED, UNCONSOLIDATED, WET

DEPTH (FEET): 5, 10, 15, 20, 25, 30, 35, 40, 45

DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: JANUARY 23, 2001
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 18 FT
TOTAL SAMPLE DEPTH: 18 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

ATTACHMENT 4.A

MONITORING WELL MW-20 - SOIL BORING LOG/ WELL COMPLETION DIAGRAM
LOVELACE PROPERTY
LAS CRUCES, NEW MEXICO

MILLER ENGINEERS, INC.
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Las Cruces, New Mexico 88005
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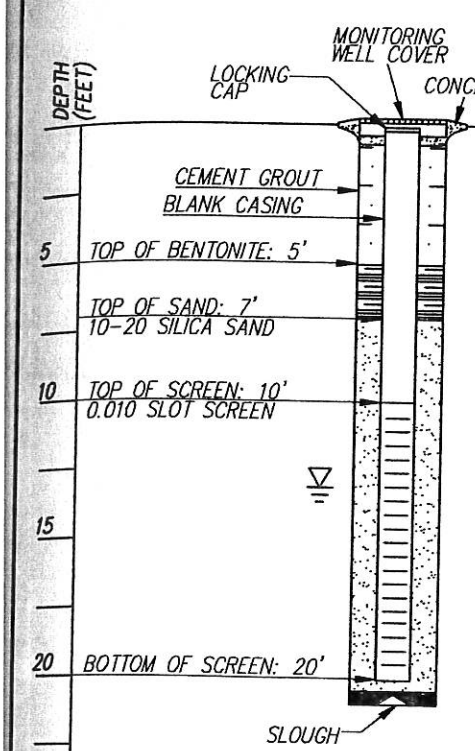
3312346.4.A
01-25-01

WELL COMPLETION DATA



SOIL BORING LOG

HEADSPACE (PPM)	SOIL TYPE	SAMPLE DESCRIPTION
		DARK BROWN SILTY CLAY, UNCONSOLIDATED, DRY
74.1		LIGHT BROWN TO GRAY FINE GRAINED SAND, WELL SORTED, UNCONSOLIDATED, DRY
164		DARK GRAY SILTY CLAY WITH SOME SAND, POORLY SORTED, UNCONSOLIDATED, SLIGHTLY MOIST, SLIGHT HYDROCARBON ODOR
1152		DARK GRAY SILTY CLAY WITH SOME SAND, POORLY SORTED, UNCONSOLIDATED, SLIGHTLY MOIST, SLIGHT HYDROCARBON ODOR
		LIGHT GRAY TO BROWN FINE GRAINED SAND, WELL SORTED, UNCONSOLIDATED, WET
560		LIGHT BROWN SILTY CLAY, UNCONSOLIDATED, VERY WET

DEPTH (FEET): 5, 10, 15, 20, 25, 30, 35, 40, 45

DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: JANUARY 23, 2001
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 20 FT
TOTAL SAMPLE DEPTH: 20 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

ATTACHMENT 4.B

MONITORING WELL MW-21 - SOIL BORING LOG/ WELL COMPLETION DIAGRAM
LOVELACE PROPERTY
LAS CRUCES, NEW MEXICO

SOUDER, MILLER & ASSOCIATES
CIVIL/ENVIRONMENTAL SCIENTISTS & ENGINEERS
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DRAWN L.R. 01-01
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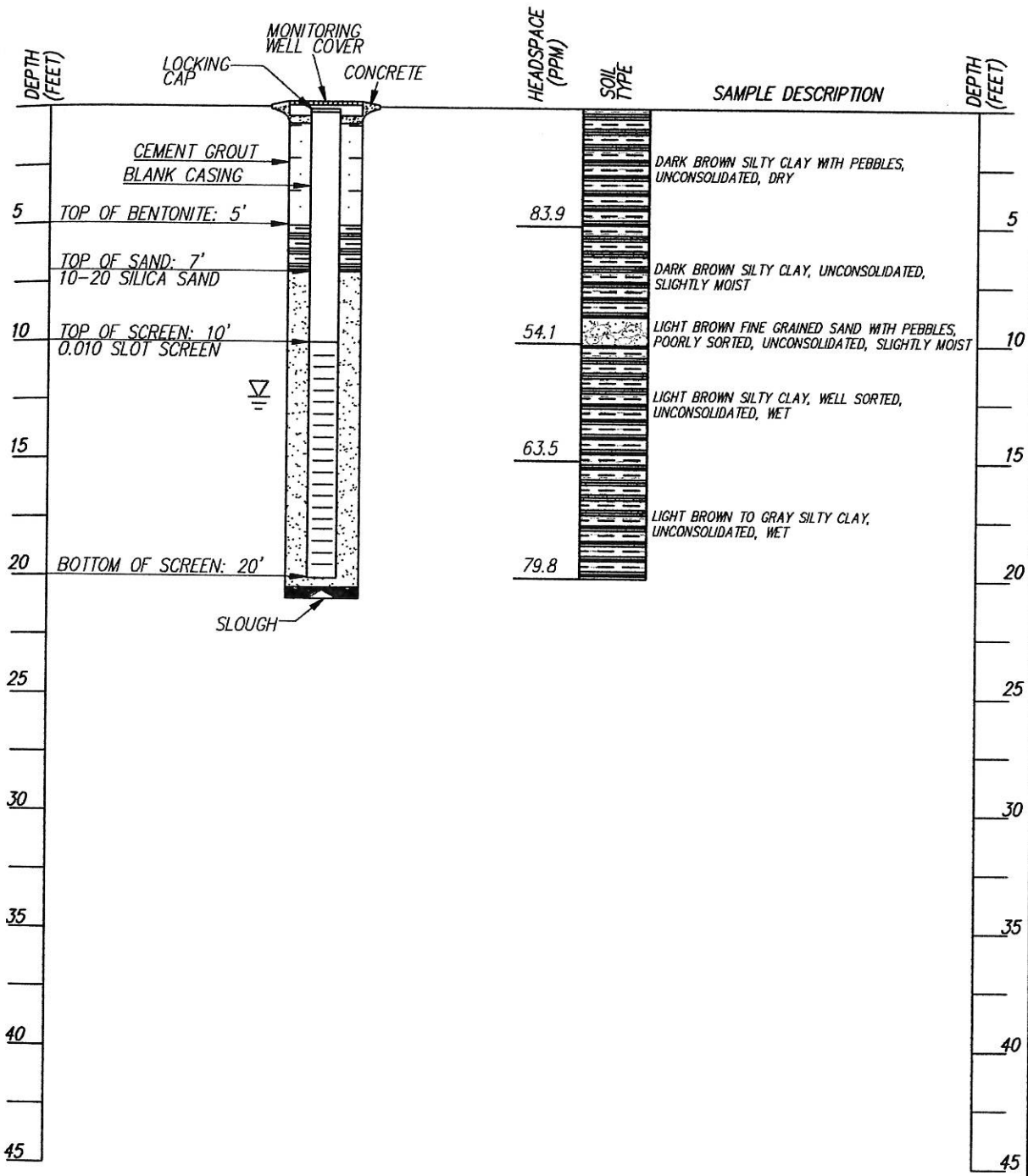
531234.6.B
01-25-01

WELL COMPLETION DATA



SOIL BORING LOG

DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: JANUARY 23, 2001
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 20 FT
TOTAL SAMPLE DEPTH: 20 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

ATTACHMENT.4.C

MONITORING WELL MW-22 - SOIL BORING LOG/ WELL COMPLETION DIAGRAM
LOVELACE PROPERTY
LAS CRUCES, NEW MEXICO

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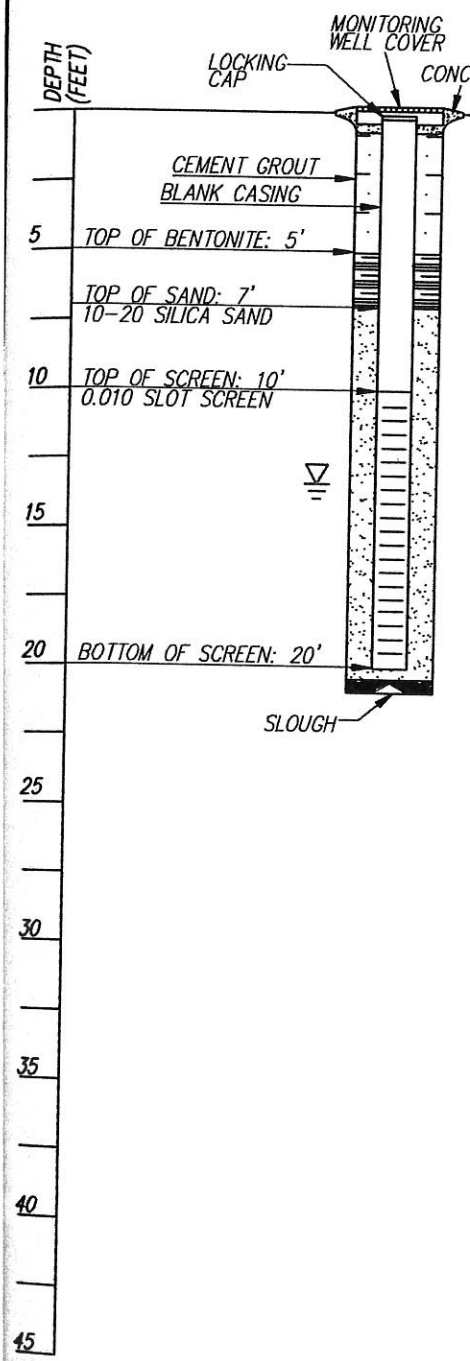
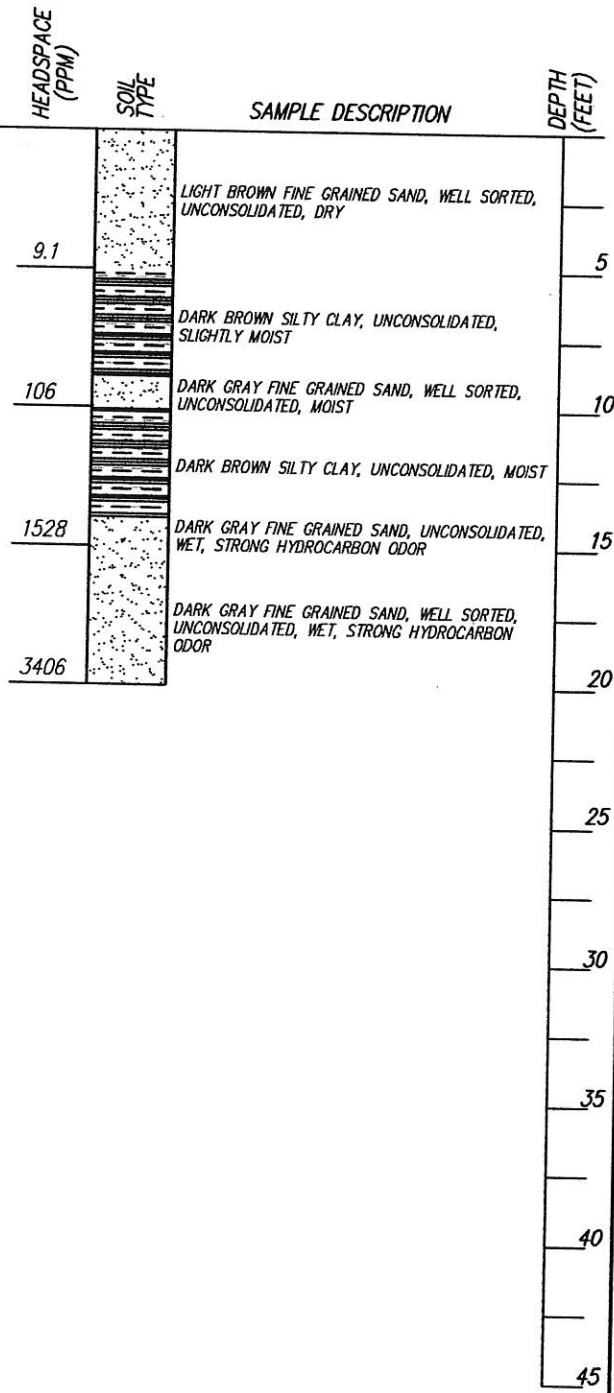
331234.4.C
01-25-01

WELL COMPLETION DATA



SOIL BORING LOG



DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: JANUARY 23, 2001
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 20 FT
TOTAL SAMPLE DEPTH: 20 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

ATTACHMENT 4.D

MONITORING WELL MW-23 - SOIL BORING LOG/ WELL COMPLETION DIAGRAM
LOVELACE PROPERTY
LAS CRUCES, NEW MEXICO

SOUDER, MILLER & ASSOCIATES
CIVIL/ENVIRONMENTAL SCIENTISTS & ENGINEERS
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Las Cruces, New Mexico 88005
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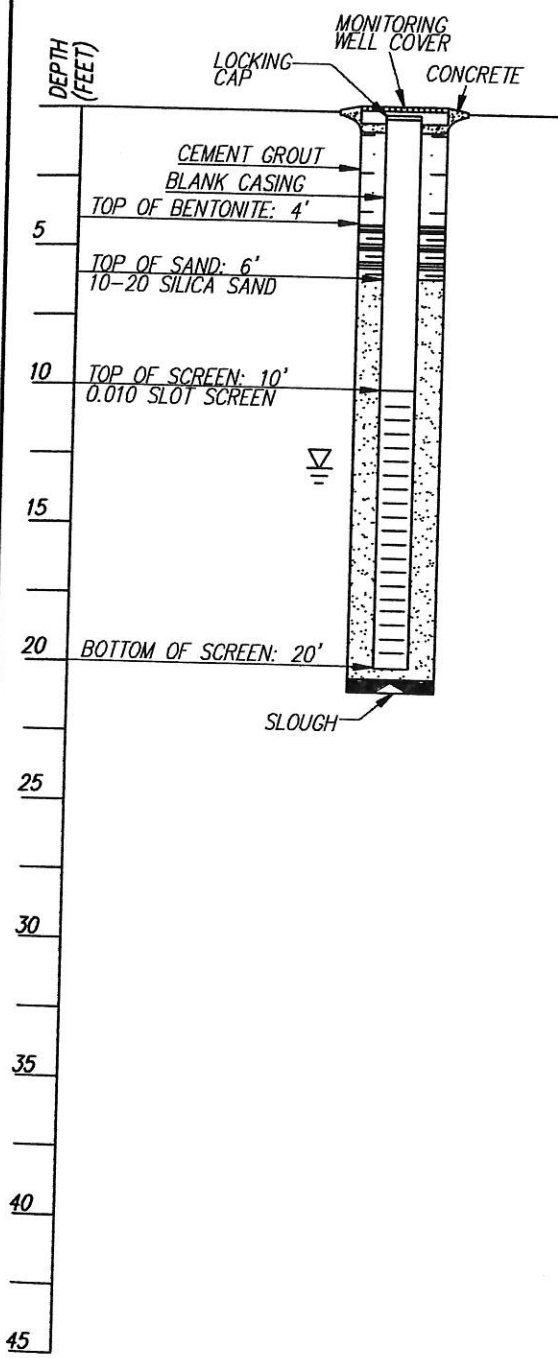

SOIL BORING LOG

HEADSPACE (PPM)	SOIL TYPE	SAMPLE DESCRIPTION
		LIGHT BROWN TO CREAM COLORED SILTY CLAY, UNCONSOLIDATED, SLIGHTLY MOIST
10.4		
		LIGHT BROWN SILTY TO SANDY CLAY, POORLY SORTED, UNCONSOLIDATED, MOIST
56.7		
		LIGHT BROWN SILTY TO SANDY CLAY, POORLY SORTED, UNCONSOLIDATED, MOIST
1238		DARK GRAY TO BLACK FINE GRAINED SAND, WELL SORTED, UNCONSOLIDATED, WET, STRONG HYDROCARBON ODOR
		LIGHT GRAY FINE GRAINED SAND, WELL SORTED, UNCONSOLIDATED, VERY WET, MODERATE HYDROCARBON ODOR
3701		

DEPTH (FEET): 5, 10, 15, 20, 25, 30, 35, 40, 45

DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: JANUARY 23, 2001
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 20 FT
TOTAL SAMPLE DEPTH: 20 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

ATTACHMENT 4.E

MONITORING WELL MW-24 - SOIL BORING LOG/ WELL COMPLETION DIAGRAM
LOVELACE PROPERTY
LAS CRUCES, NEW MEXICO

SOUDER, MILLER & ASSOCIATES
CIVIL/ENVIRONMENTAL SCIENTISTS & ENGINEERS
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Las Cruces, New Mexico 88005
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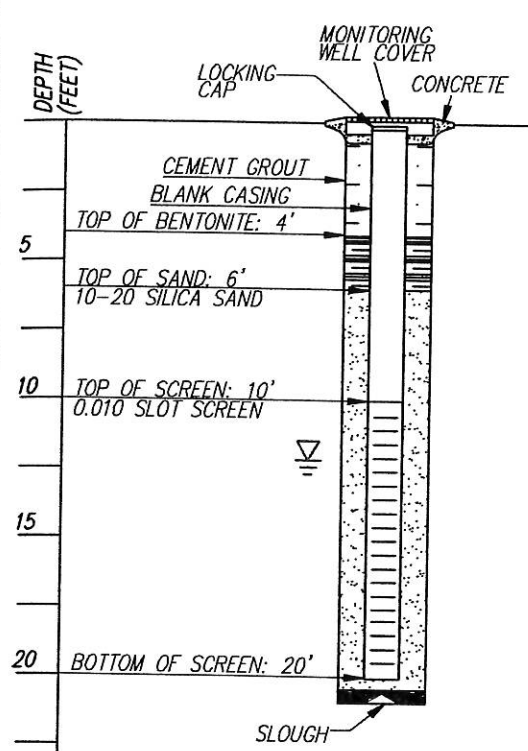

SOIL BORING LOG

HEADSPACE (PPM)	SOIL TYPE	SAMPLE DESCRIPTION	DEPTH (FEET)
149		LIGHT BROWN FINE GRAINED SAND WITH PEBBLES, UNCONSOLIDATED, DRY	5
92.4		DARK BROWN SILTY CLAY, UNCONSOLIDATED, MOIST	10
1326		LIGHT BROWN FINE GRAINED SAND WITH SILTY CLAY LAYERS, UNCONSOLIDATED, MOIST	15
6855		DARK GRAY FINE GRAINED SAND, WELL SORTED, UNCONSOLIDATED, WET, STRONG HYDROCARBON ODOR	20
			25
			30
			35
			40
			45

DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: JANUARY 23, 2001
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 20 FT
TOTAL SAMPLE DEPTH: 20 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

ATTACHMENT 4.F

MONITORING WELL MW-25 - SOIL BORING LOG/ WELL COMPLETION DIAGRAM
LOVELACE PROPERTY
LAS CRUCES, NEW MEXICO

SOUDER, MILLER & ASSOCIATES
CIVIL/ENVIRONMENTAL SCIENTISTS & ENGINEERS
401 Seventeenth Street, Suite 4
Las Cruces, New Mexico 88005
(505) 647-0799
Santa Fe - Farmington
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DRAWN LJR 01-01
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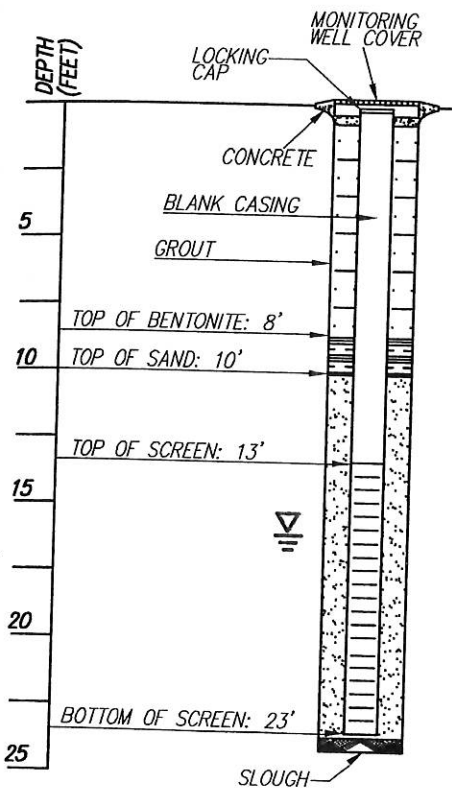
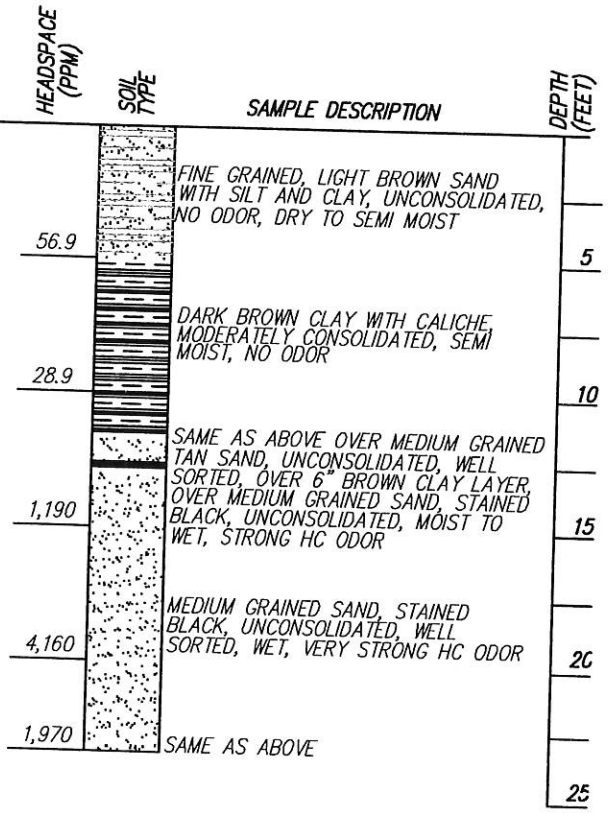


SOIL BORING LOG



DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: AUGUST 4, 2003
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 23 FT
TOTAL SAMPLE DEPTH: 23 FT
DEPTH TO WATER: 16.03 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

MONITORING WELL MW-29 SOIL BORING LOG/ MONITORING WELL COMPLETION DIAGRAM
FORMER FAIRACRES POST OFFICE
FAIRACRES, NEW MEXICO

FIGURE 5A

401 SEVENTEENTH STREET, SUITE 4
LAS CRUCES, NEW MEXICO 88005
(505) 647-0799 / 647-0880 (FAX)
SANTA FE - FARMINGTON
ALBUQUERQUE - LAS CRUCES
SMA CIVIL/ENVIRONMENTAL SCIENTISTS & ENGINEERS

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CHECKED D.E. 08-03
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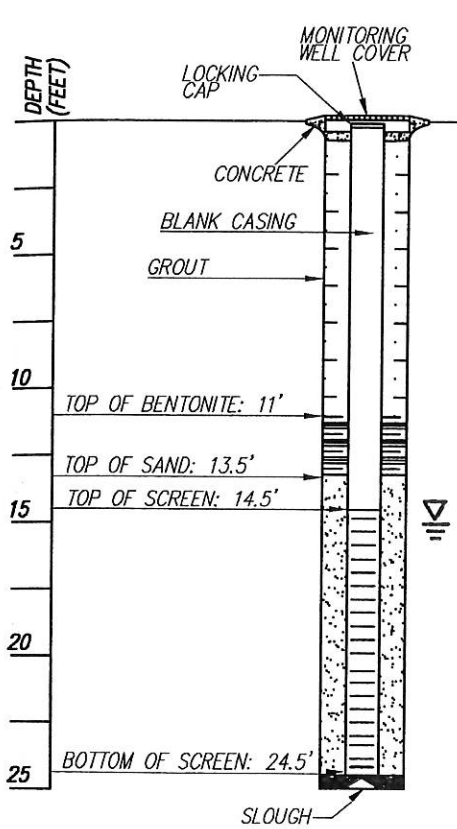
WELL COMPLETION DATA



SOIL BORING LOG

HEADSPACE (PPM)	SOIL TYPE	SAMPLE DESCRIPTION	DEPTH (FEET)
54.0		FINE GRAINED, BROWN SAND, WELL SORTED, UNCONSOLIDATED, MOIST, NO ODOR	5
56.0		FINE GRAINED, BROWN SAND, WELL SORTED, SEMI MOIST, UNCONSOLIDATED	10
763		SAME AS ABOVE, OVER FINE GRAINED SAND, STAINED BLACK, WELL SORTED, STRONG HC ODOR	15
4,872		MEDIUM GRAINED SAND, STAINED BLACK, UNCONSOLIDATED, WELL SORTED, WET, VERY STRONG HC ODOR	20
2,484		SAME AS ABOVE	25

DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: AUGUST 4, 2003
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 25 FT
TOTAL SAMPLE DEPTH: 25 FT
DEPTH TO WATER: 15.40 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

FIGURE 5B

MONITORING WELL MW-30 SOIL BORING LOG/ MONITORING WELL COMPLETION DIAGRAM
FORMER FAIRACRES POST OFFICE
FAIRACRES, NEW MEXICO

401 SEVENTEENTH STREET, SUITE 4
LAS CRUCES, NEW MEXICO 88005
(505) 647-0799 / 647-0880 (FAX)
SANTA FE - FARMINGTON
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SMA CIVIL/ENVIRONMENTAL SURVEYORS & ENGINEERS

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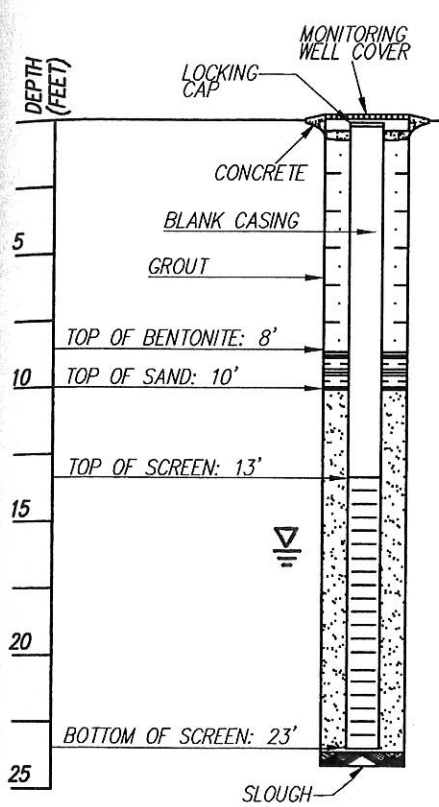
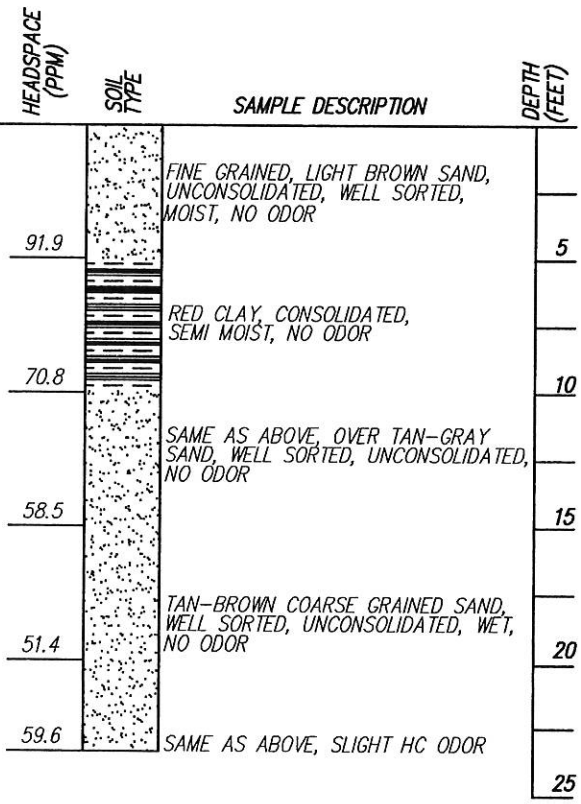
WELL COMPLETION DATA



SOIL BORING LOG



DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: AUGUST 4, 2003
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 23 FT
TOTAL SAMPLE DEPTH: 23 FT
DEPTH TO WATER: 15.56 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

FIGURE 5C

MONITORING WELL MW-31 SOIL BORING LOG/ MONITORING WELL COMPLETION DIAGRAM
FORMER FAIRACRES POST OFFICE
FAIRACRES, NEW MEXICO

401 SEVENTEENTH STREET, SUITE 4
LAS CRUCES, NEW MEXICO 88005
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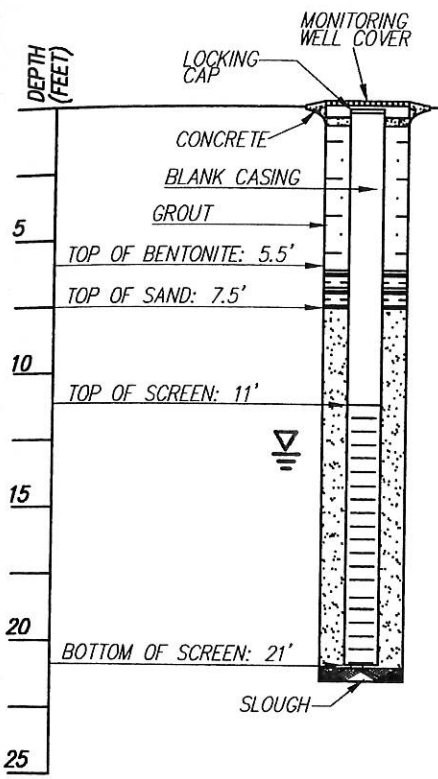
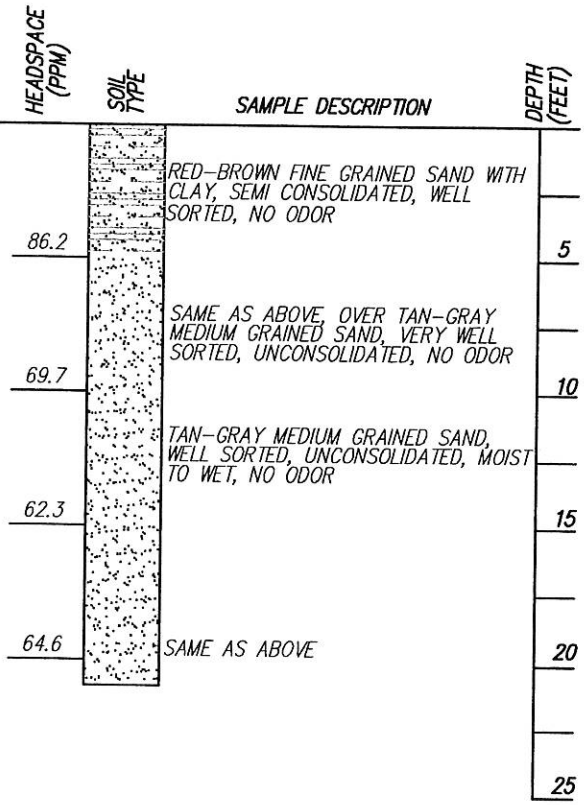
WELL COMPLETION DATA



SOIL BORING LOG



DRILLER: SOUTHWEST ENGINEERING, INC.
DATE COMPLETED: AUGUST 4, 2003
BOREHOLE DIAMETER: 8 IN. O.D.
SAMPLER TYPE: CONTINUOUS SAMPLER
DRILLING METHOD: HOLLOW STEM AUGER
HEADSPACE: OVA WITH PID
TOTAL BORING DEPTH: 21' FT
TOTAL SAMPLE DEPTH: 20' FT
DEPTH TO WATER: 12.35 FT

LOG LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL

FIGURE 5D

MONITORING WELL MW-32 SOIL BORING LOG/ MONITORING WELL COMPLETION DIAGRAM
FORMER FAIRACRES POST OFFICE
FAIRACRES, NEW MEXICO

401 SEVENTEENTH STREET, SUITE 4
LAS CRUCES, NEW MEXICO 88005
(505) 647-0798 / 647-0680 (FAX)
SANTA FE - FARMINGTON
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ASMA CIVIL/ENVIRONMENTAL SCIENTISTS & ENGINEERS

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3313457
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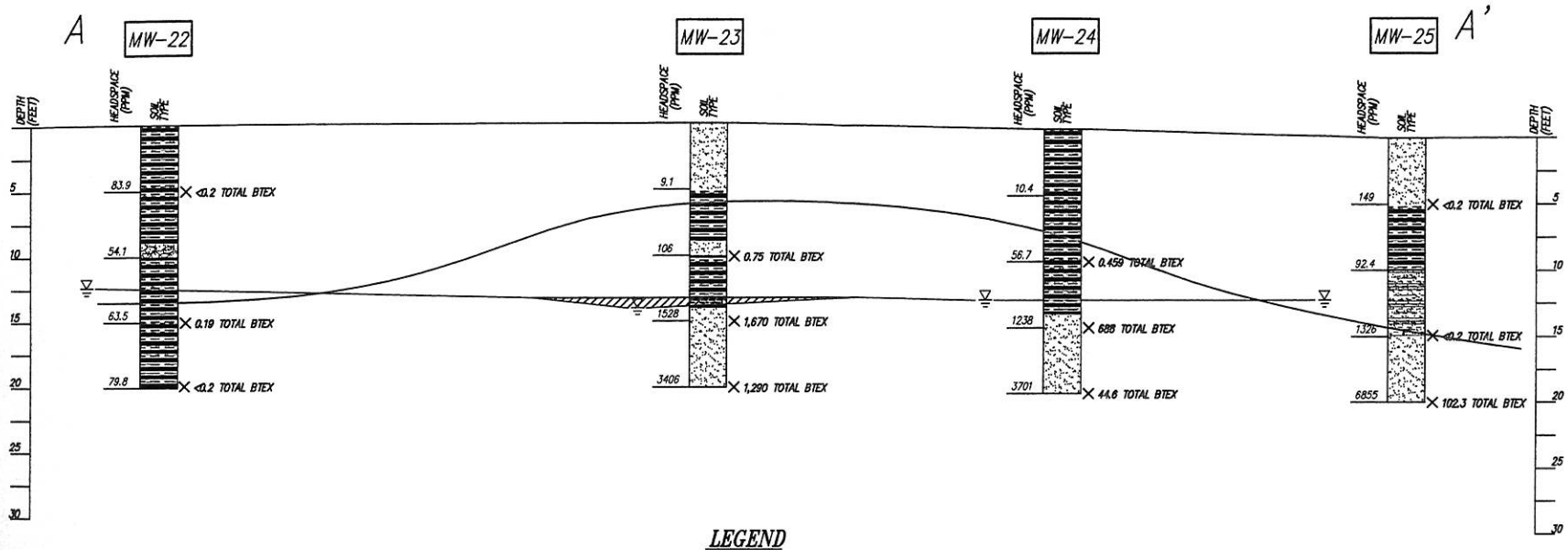

LEGEND

- PREDOMINANTLY SAND
- PREDOMINANTLY SILT
- PREDOMINANTLY CLAY
- PREDOMINANTLY GRAVEL
- POTENTIOMETRIC SURFACE
- AREA OF SOIL CONTAMINATION
- × # TOTAL BTEX — ANALYTICAL SAMPLE COLLECTION POINT WITH TOTAL BTEX CONCENTRATION IN MG/KG
- APPROXIMATE EXTENT OF NON-AQUEOUS PHASE PETROLEUM HYDROCARBON LIQUID (NAPL)

VERTICAL EXAGERATION 3H:1V

ATTACHMENT 5

GENERALIZED GEOLOGIC / CONTAMINANT CROSS-SECTION
LOVELACE PROPERTY
FAIRACRES, NEW MEXICO

SOUDER, MILLER & ASSOCIATES
401 Seventeenth Street, Suite 4
Las Cruces, New Mexico 88005
(505) 647-0799
Santa Fe - Farmington
Albuquerque - Las Cruces
MILLER ENGINEERS, INC.

DRAWN AJE 2-01
CHECKED LNK 2-01 NMCS#266
APPROVED KET 2-01 NMCS#008

REVISIONS
BY ____ DATE ____ DESCR. ____
BY ____ DATE ____ DESCR. ____

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2-8-01