

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	40						Bentonite Slurry (Grout) (continued)
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
							Bentonite Slurry (Grout) <i>(continued)</i>
	95						
	100						
	105						
	110						
	115						
	120						
	125						
	130						
	135						
	140						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
							Bentonite Slurry (Grout) <i>(continued)</i>
	145						
	150						
	155						
	160						
	165						
	170						
	175						
	180						
	185						
	190						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	195						Bentonite Slurry (Grout) (continued)
	200						
	205						
	210						
	215						
	220						
	225						
	230				228.00	937.06	Artificial Sandpack
	235						
	240						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	245				245.00	920.06	Artificial Sandpack (continued) 10 Slot Screen 10 Slot Screen (continued)
	250				251.00	914.06	Natural Collapse
	270				271.00	894.06	

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

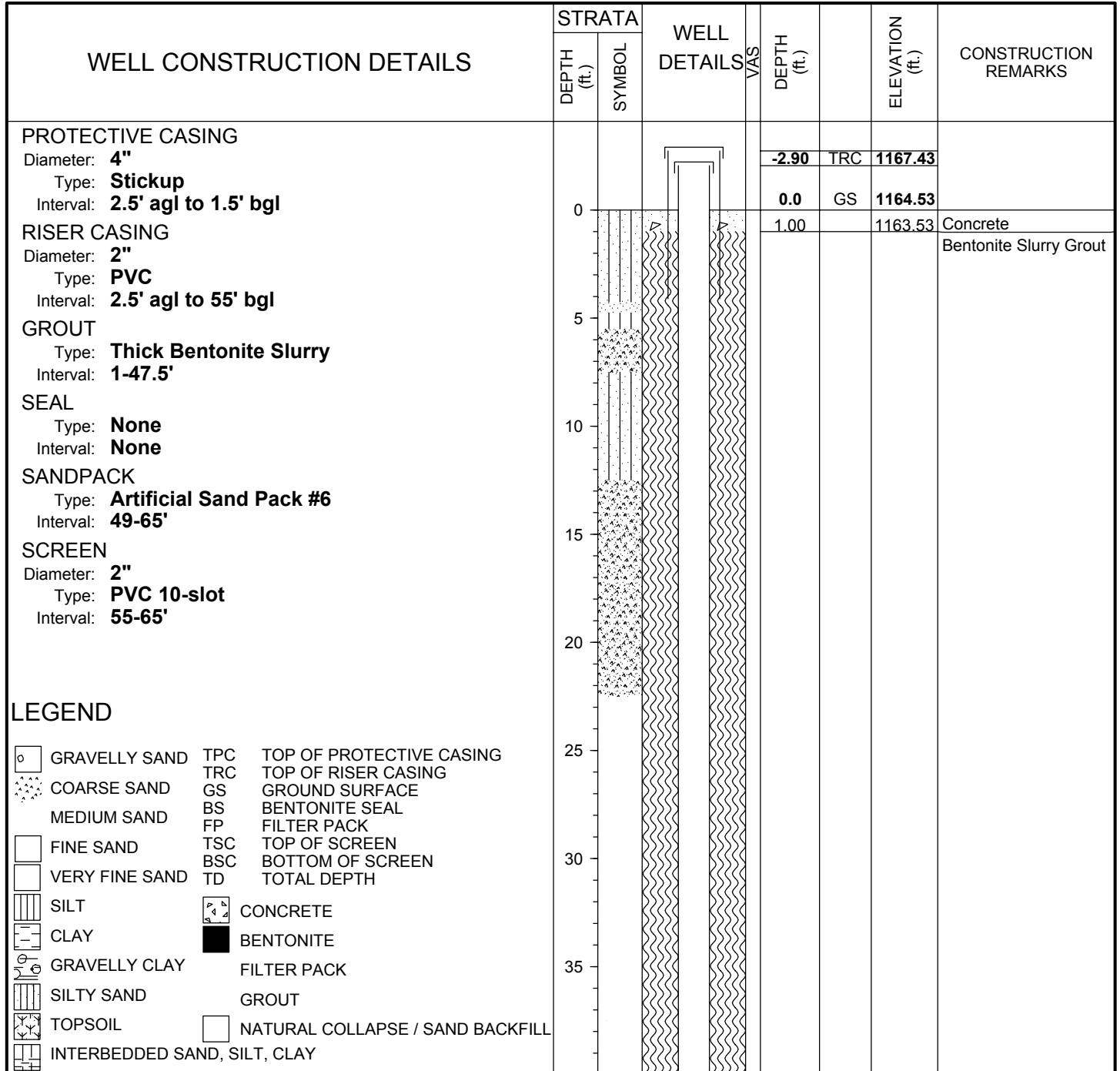
COMPLETION REPORT OF WELL No. MW-105S

PROJECT: **GSWA: Spring Hill Camp Phase III**
 PROJECT NO: **4065-005**
 PROJECT LOCATION: **Osceola Township, MI**

WATER LEVEL: ∇ **53.96** ∇ _____ ∇ _____
 DATE: **2-13-01** _____
 TIME: _____

DRILLING CONTRACTOR: **Stearns**
 DRILLING METHOD: **4 1/4" HSA**
 DATE COMPLETED: **November 20, 2000**

GROUND SURFACE ELEVATION: **1164.5**
 DATUM: **USGS**
 LOGGED BY: **Bobbi McClead**



1500 Abbott Road, Suite 210
 East Lansing, MI 48823
 Telephone: (517) 337-0111
 Fax: (517) 337-0417

COMPLETION REPORT OF WELL No. MW-105S

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	40						Bentonite Slurry Grout (continued)
	45						Natural Collapse
	47.50				47.50	1117.03	
	49.00				49.00	1115.53	Artificial Sand Pack #6
	50						
	55						10 Slot PVC Screen
	60						
	65				65.00	1099.53	

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

COMPLETION REPORT OF WELL No. MW-106D

PROJECT: **GSWA: Spring Hill Camp Phase III**
 PROJECT NO: **4065-005**
 PROJECT LOCATION: **Osceola Township, MI**

WATER LEVEL: ▾ **68.40** ▾
 DATE: **11-3-00**
 TIME: **755**

DRILLING CONTRACTOR: **Stearns**
 DRILLING METHOD: **4 1/4" HSA**
 DATE COMPLETED: **November 8, 2000**

GROUND SURFACE ELEVATION: **1183.8**
 DATUM: **USGS**
 LOGGED BY: **GF/PO**

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS	
	DEPTH (ft.)	SYMBOL					
<p>PROTECTIVE CASING Diameter: 4" Type: Stickup Interval: 2.5' agl to 1.5' bgl</p> <p>RISER CASING Diameter: 2" Type: PVC Interval: 2.5' agl to 205' bgl</p> <p>GROUT Type: Thick Bentonite Slurry Interval: 1-97'</p> <p>SEAL Type: None Interval: None</p> <p>SANDPACK Type: Artificial Sandpack #6 Interval: 207-215'</p> <p>SCREEN Diameter: 2" Type: PVC 10-slot Interval: 215-205'</p>	0	[Stickup]	[Stickup]	-2.74	TRC	1186.49	
	0.0	[GS]	[GS]	1.00	GS	1183.75	Concrete Bentonite Slurry (Grout)
	5	[Artificial Sandpack #6]	[Artificial Sandpack #6]				
	10	[Artificial Sandpack #6]	[Artificial Sandpack #6]				
	15	[Artificial Sandpack #6]	[Artificial Sandpack #6]				
	20	[Artificial Sandpack #6]	[Artificial Sandpack #6]				
	25	[Artificial Sandpack #6]	[Artificial Sandpack #6]				
	30	[Artificial Sandpack #6]	[Artificial Sandpack #6]				
	35	[Artificial Sandpack #6]	[Artificial Sandpack #6]				

LEGEND

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> GRAVELLY SAND COARSE SAND <li style="padding-left: 20px;">MEDIUM SAND FINE SAND VERY FINE SAND SILT CLAY GRAVELLY CLAY SILTY SAND TOPSOIL INTERBEDDED SAND, SILT, CLAY | <ul style="list-style-type: none"> TPC TOP OF PROTECTIVE CASING TRC TOP OF RISER CASING GS GROUND SURFACE BS BENTONITE SEAL FP FILTER PACK TSC TOP OF SCREEN BSC BOTTOM OF SCREEN TD TOTAL DEPTH CONCRETE BENTONITE FILTER PACK GROUT NATURAL COLLAPSE / SAND BACKFILL | |
|--|--|--|



1500 Abbott Road, Suite 210
 East Lansing, MI 48823
 Telephone: (517) 337-0111
 Fax: (517) 337-0417

**COMPLETION REPORT OF
WELL No. MW-106D**

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	40						Bentonite Slurry (Grout) (continued)
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

















WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	95				97.00	1086.75	Bentonite Slurry (Grout) (continued)
	100						Natural Collapse (Sand)
	105						
	110						
	115						
	120						
	125						
	130						
	135						
	140						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
							Natural Collapse (Sand) (continued)
	145						
	150						
	155						
	160						
	165						
	170						
	175						
	180						
	185						
	190						

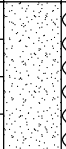

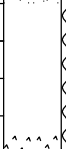



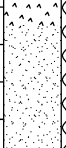









LEGEND

- | | | | |
|---|------------------------------|---|----------------------------------|
|  | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
|  | COARSE SAND | TRC | TOP OF RISER CASING |
|  | MEDIUM SAND | GS | GROUND SURFACE |
|  | FINE SAND | BS | BENTONITE SEAL |
|  | VERY FINE SAND | FP | FILTER PACK |
|  | SILT | TSC | TOP OF SCREEN |
|  | CLAY | BSC | BOTTOM OF SCREEN |
|  | GRAVELLY CLAY | TD | TOTAL DEPTH |
|  | SILTY SAND |  | CONCRETE |
|  | TOPSOIL |  | BENTONITE |
|  | INTERBEDDED SAND, SILT, CLAY |  | FILTER PACK |
| | |  | GROUT |
| | |  | NATURAL COLLAPSE / SAND BACKFILL |















WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	195						Natural Collapse (Sand) <i>(continued)</i>
	200						
	205						10 Slot Screen
	207.00				207.00	976.75	
	210						Artificial Sandpack
	215				215.00	968.75	
	215						Natural Collapse
	220						
	225						
	230						
	235						
	240				241.00	942.75	

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
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| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	30						Bentonite Slurry (Grout) (continued)
	35						
	40						
	45						
	50						
	55						
	60						
	65						

LEGEND

- | | | | |
|---|------------------------------|---|----------------------------------|
|  | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
|  | COARSE SAND | TRC | TOP OF RISER CASING |
|  | MEDIUM SAND | GS | GROUND SURFACE |
|  | FINE SAND | BS | BENTONITE SEAL |
|  | VERY FINE SAND | FP | FILTER PACK |
|  | SILT | TSC | TOP OF SCREEN |
|  | CLAY | BSC | BOTTOM OF SCREEN |
|  | GRAVELLY CLAY | TD | TOTAL DEPTH |
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|  | TOPSOIL |  | BENTONITE |
|  | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | |  | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
							Bentonite Slurry (Grout) <i>(continued)</i>
	70						
	75						
	80						
	85						
	90						
	95						
	100						
	105						

















LEGEND

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|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

















WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
							Bentonite Slurry (Grout) <i>(continued)</i>
	110						
	115						
	120						
	125						
	130						
	135						
	140						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	145						Bentonite Slurry (Grout) <i>(continued)</i>
	150						
	155						
	160						
	165						
	170						
	175						
	180						

LEGEND

- | | | | |
|---|------------------------------|---|----------------------------------|
|  | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
|  | COARSE SAND | TRC | TOP OF RISER CASING |
|  | MEDIUM SAND | GS | GROUND SURFACE |
|  | FINE SAND | BS | BENTONITE SEAL |
|  | VERY FINE SAND | FP | FILTER PACK |
|  | SILT | TSC | TOP OF SCREEN |
|  | CLAY | BSC | BOTTOM OF SCREEN |
|  | GRAVELLY CLAY | TD | TOTAL DEPTH |
|  | SILTY SAND |  | CONCRETE |
|  | TOPSOIL |  | BENTONITE |
|  | INTERBEDDED SAND, SILT, CLAY |  | FILTER PACK |
| | |  | GROUT |
| | |  | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	185				185.00	995.68	Bentonite Slurry (Grout) <i>(continued)</i>
	190						Artificial Sandpack
	195						
	200				200.00	980.68	
	205						Natural Collapse
	210				211.00	969.68	

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

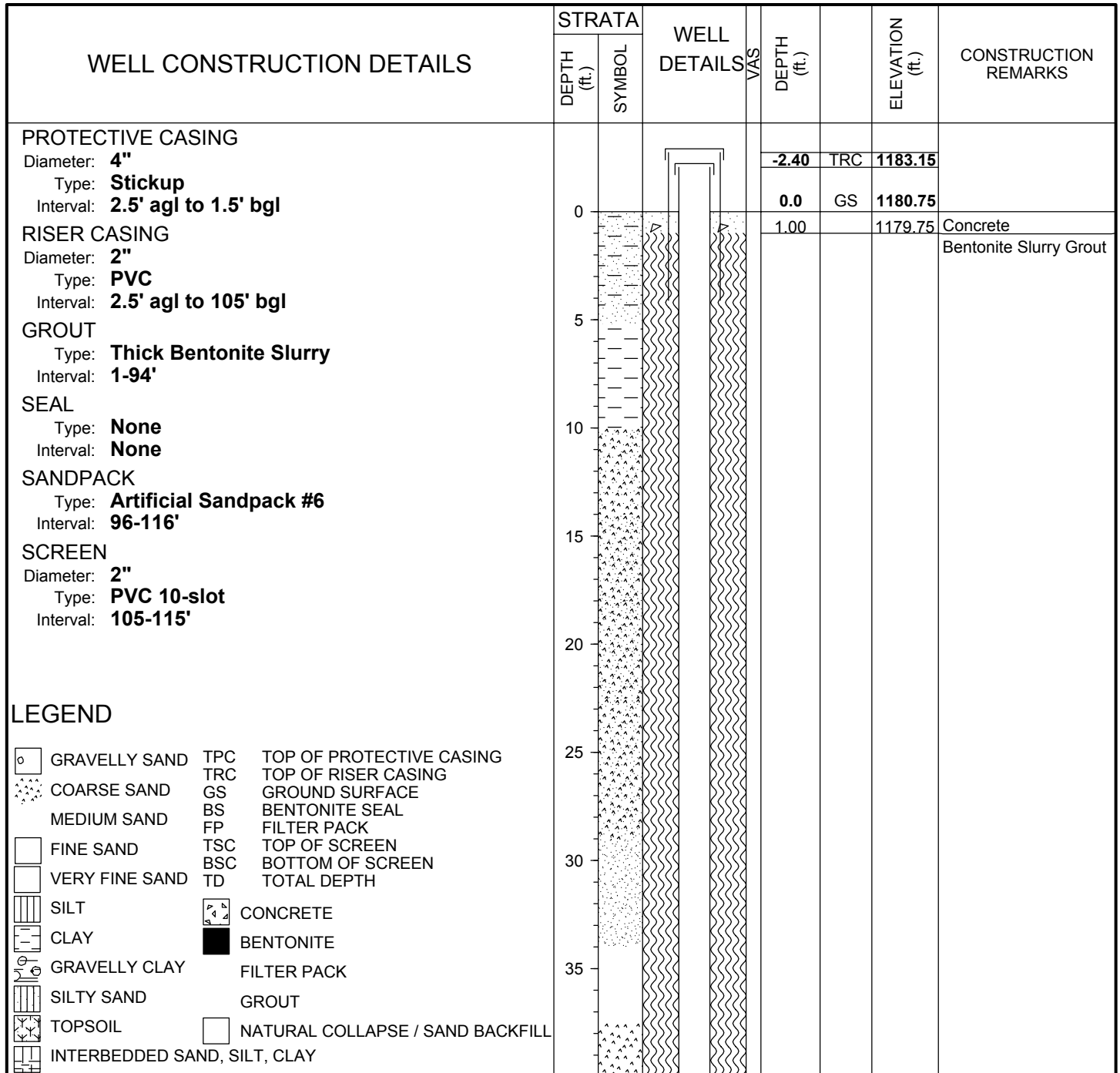
COMPLETION REPORT OF WELL No. MW-1071

PROJECT: **GSWA: Spring Hill Camp Phase III**
 PROJECT NO: **4065-005**
 PROJECT LOCATION: **Osceola Township, MI**

WATER LEVEL: ▽ **NA** ▽ **NA** ▽ **NA**
 DATE: **NA**
 TIME: **NA**

DRILLING CONTRACTOR: **Stearns**
 DRILLING METHOD: **4 1/4" HSA**
 DATE COMPLETED: **November 16, 2000**

GROUND SURFACE ELEVATION: **1180.8**
 DATUM: **USGS**
 LOGGED BY: **Phil Odenkirk**



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 East Lansing, MI 48823
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 Fax: (517) 337-0417

**COMPLETION REPORT OF
 WELL No. MW-1071**

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	40						Bentonite Slurry Grout (continued)
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
					94.00	1086.75	Bentonite Slurry Grout <i>(continued)</i>
	95				96.00	1084.75	Natural Collapse
							Artificial Sand Pack #6
	100						
	105						10 Slot PVC Screen
	110						
	115				115.00	1065.75	
					116.00	1064.75	

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

COMPLETION REPORT OF WELL No. MW-1081

PROJECT: **GSWA: Spring Hill Camp Phase III**
 PROJECT NO: **4065-005**
 PROJECT LOCATION: **Osceola Township, MI**

WATER LEVEL: ∇ **59.00** ∇ _____ ∇ _____
 DATE: **11-10-00** _____
 TIME: **NA** _____

DRILLING CONTRACTOR: **Stearns**
 DRILLING METHOD: **4 1/4" HSA**
 DATE COMPLETED: **November 16, 2000**

GROUND SURFACE ELEVATION: **1133.0**
 DATUM: **USGS**
 LOGGED BY: **Phil Odenkirk**

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL				
PROTECTIVE CASING Diameter: 4" Type: Stickup Interval: 2.5' agl to 1.5' bgl	0	○		-2.40	TRC	1135.39
RISER CASING Diameter: 2" Type: PVC Interval: 2.5' agl to 100' bgl	0	○		0.0	GS	1132.99
GROUT Type: Thick Bentonite Slurry Interval: 1-95'	1.00	■				Concrete Bentonite Slurry Grout
SEAL Type: None Interval: None	10	■				
SANDPACK Type: Artificial Sandpack #6 Interval: 95-110'	15	○				
SCREEN Diameter: 2" Type: PVC 10-slot Interval: 100-110'	20	○				
LEGEND						
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>○ GRAVELLY SAND</p> <p>● COARSE SAND</p> <p>□ MEDIUM SAND</p> <p>□ FINE SAND</p> <p>□ VERY FINE SAND</p> <p>▨ SILT</p> <p>▧ CLAY</p> <p>▩ GRAVELLY CLAY</p> <p>▨ SILTY SAND</p> <p>▩ TOPSOIL</p> <p>▨ INTERBEDDED SAND, SILT, CLAY</p> </div> <div style="width: 45%;"> <p>○ TPC TOP OF PROTECTIVE CASING</p> <p>○ TRC TOP OF RISER CASING</p> <p>○ GS GROUND SURFACE</p> <p>○ BS BENTONITE SEAL</p> <p>○ FP FILTER PACK</p> <p>○ TSC TOP OF SCREEN</p> <p>○ BSC BOTTOM OF SCREEN</p> <p>○ TD TOTAL DEPTH</p> <p>■ CONCRETE</p> <p>■ BENTONITE</p> <p>▨ FILTER PACK</p> <p>▨ GROUT</p> <p>□ NATURAL COLLAPSE / SAND BACKFILL</p> </div> </div>	25	○		30		
	35	○				



1500 Abbott Road, Suite 210
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 Fax: (517) 337-0417

**COMPLETION REPORT OF
 WELL No. MW-1081**

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	40						Bentonite Slurry Grout (continued)
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |














WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	95				95.00	1037.99	Bentonite Slurry Grout <i>(continued)</i>
	100						Sandpack
	105						10 Slot Screen
	110				110.00	1022.99	
	115						
	120						
	125						
	130						
	135						
	140						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
					(See Previous Page)		
		145					
		150					
		155					
		160					
		165					
		170					
		175					
		180					

LEGEND

- | | | | |
|---|------------------------------|---|----------------------------------|
|  | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
|  | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
|  | FINE SAND | BS | BENTONITE SEAL |
|  | VERY FINE SAND | FP | FILTER PACK |
|  | SILT | TSC | TOP OF SCREEN |
|  | CLAY | BSC | BOTTOM OF SCREEN |
|  | GRAVELLY CLAY | TD | TOTAL DEPTH |
|  | SILTY SAND |  | CONCRETE |
|  | TOPSOIL |  | BENTONITE |
|  | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | |  | NATURAL COLLAPSE / SAND BACKFILL |

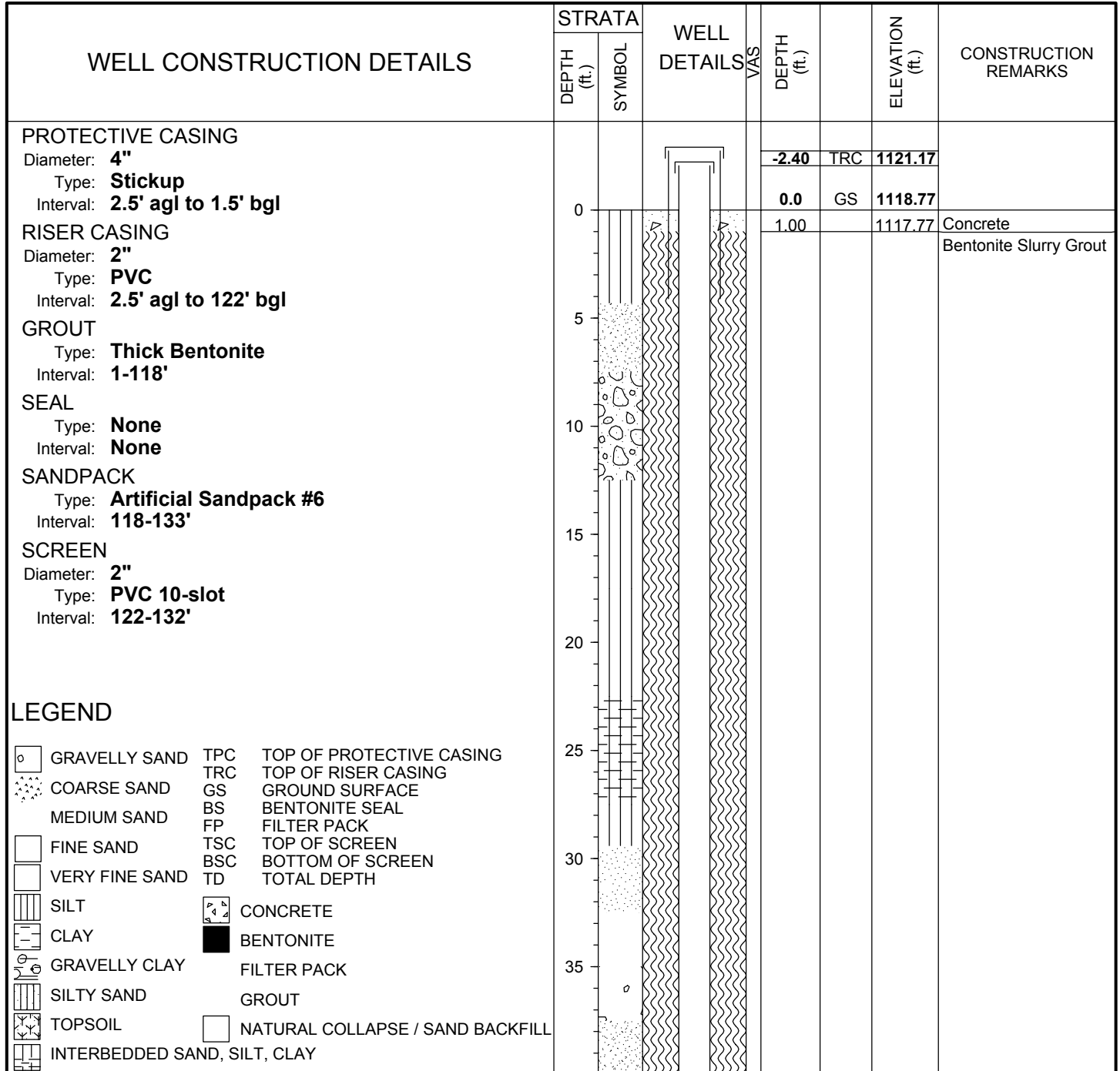
COMPLETION REPORT OF WELL No. MW-109D

PROJECT: **GSWA: Spring Hill Camp Phase III**
 PROJECT NO: **4065-005**
 PROJECT LOCATION: **Osceola Township, MI**

WATER LEVEL: ▽ _____ ▽ _____ ▽ _____
 DATE: _____
 TIME: _____

DRILLING CONTRACTOR: **Stearns**
 DRILLING METHOD: **4 1/4" HSA**
 DATE COMPLETED: **November 9, 2000**

GROUND SURFACE ELEVATION: **1118.8**
 DATUM: **USGS**
 LOGGED BY: **Larry Jordan**



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COMPLETION REPORT OF WELL No. MW-109D

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	40						Bentonite Slurry Grout (continued)
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
							Bentonite Slurry Grout (continued)
	95						
	100						
	105						
	110						
	115						
					118.00	1000.77	
	120						Artificial Sandpack #6
							10 Slot Screen
	125						
					132.00	986.77	
					133.00	985.77	Artificial Sandpack #6
							Natural Collapse
	135						
	140						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
							Natural Collapse (continued)
	145						
	150						
	155						
	160						
	165						
	170						
	175						
	180						
	185						
	190						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	195						Natural Collapse (continued)
	199.00				199.00	919.77	
	200						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILTY SAND | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

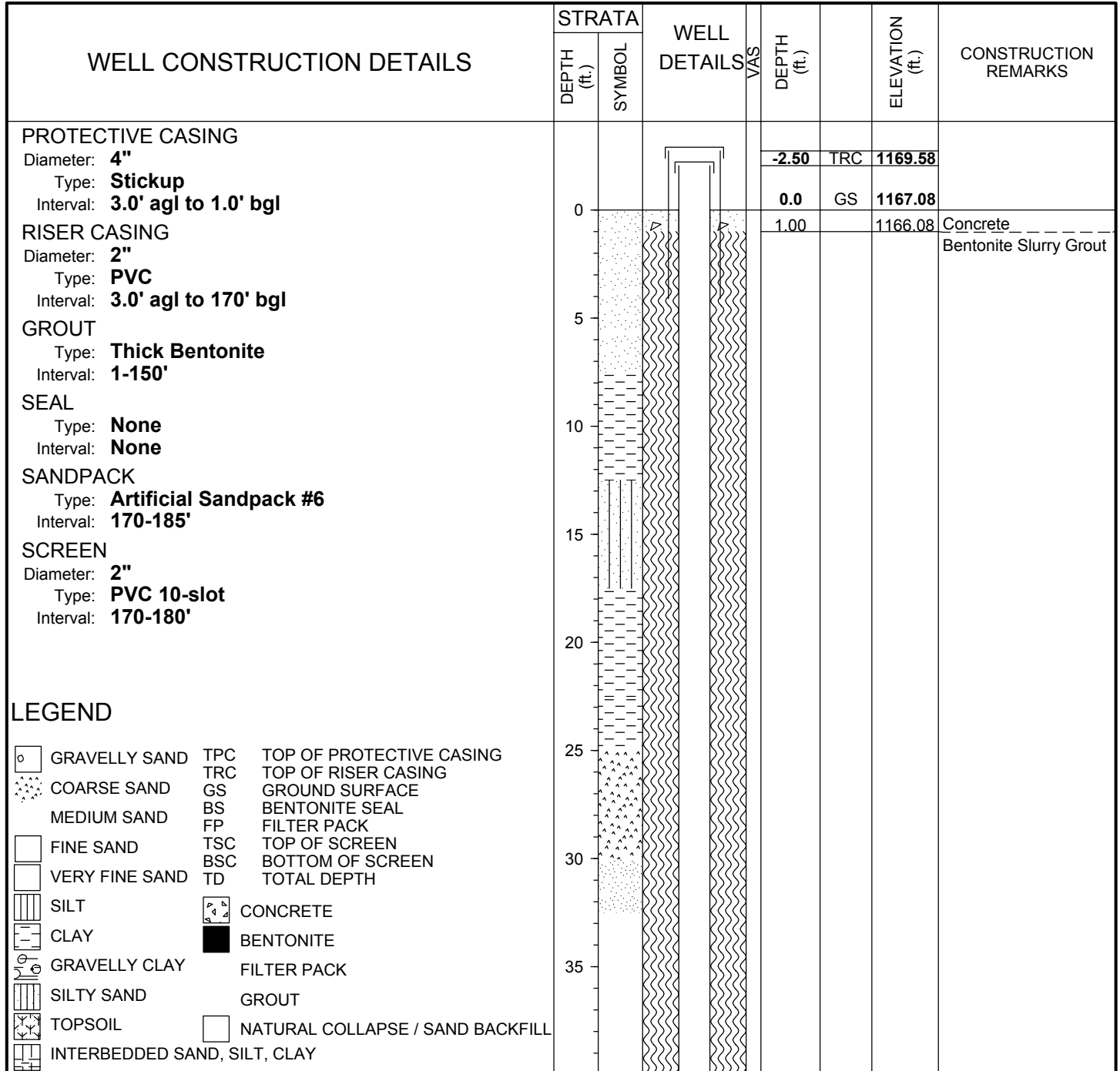
COMPLETION REPORT OF WELL No. MW-110D

PROJECT: **GSWA: Spring Hill Camp Phase III**
 PROJECT NO: **4065-005**
 PROJECT LOCATION: **Osceola Township, MI**

WATER LEVEL: ∇ **62.00** ∇ _____ ∇ _____
 DATE: **11-13-00** _____
 TIME: _____

DRILLING CONTRACTOR: **Stearns**
 DRILLING METHOD: **4 1/4" HSA**
 DATE COMPLETED: **November 14, 2000**

GROUND SURFACE ELEVATION: **1167.1**
 DATUM: **USGS**
 LOGGED BY: **Larry Jordan**



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COMPLETION REPORT OF WELL No. MW-110D

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	40						Bentonite Slurry Grout (continued)
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
							Bentonite Slurry Grout (continued)
					95		
					100		
					105		
					110		
					115		
					120		
					125		
					130		
					135		
					140		

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

















WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	145						Bentonite Slurry Grout <i>(continued)</i>
	150				150.00	1017.08	Natural Collapse
	155						
	160						
	165						
	170				170.00	997.08	Global Filter Quartz Sandpack 10 Slot Screen
	175						
	180				180.00	987.08	
	185				185.00	982.08	Natural Collapse
	190						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
					(See Previous Page)		
					191.00	976.08	

LEGEND

- | | | | |
|---|------------------------------|---|----------------------------------|
|  | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
|  | COARSE SAND | TRC | TOP OF RISER CASING |
|  | MEDIUM SAND | GS | GROUND SURFACE |
|  | FINE SAND | BS | BENTONITE SEAL |
|  | VERY FINE SAND | FP | FILTER PACK |
|  | SILT | TSC | TOP OF SCREEN |
|  | CLAY | BSC | BOTTOM OF SCREEN |
|  | GRAVELLY CLAY | TD | TOTAL DEPTH |
|  | SILTY SAND |  | CONCRETE |
|  | TOPSOIL |  | BENTONITE |
|  | INTERBEDDED SAND, SILT, CLAY |  | FILTER PACK |
| | |  | GROUT |
| | |  | NATURAL COLLAPSE / SAND BACKFILL |

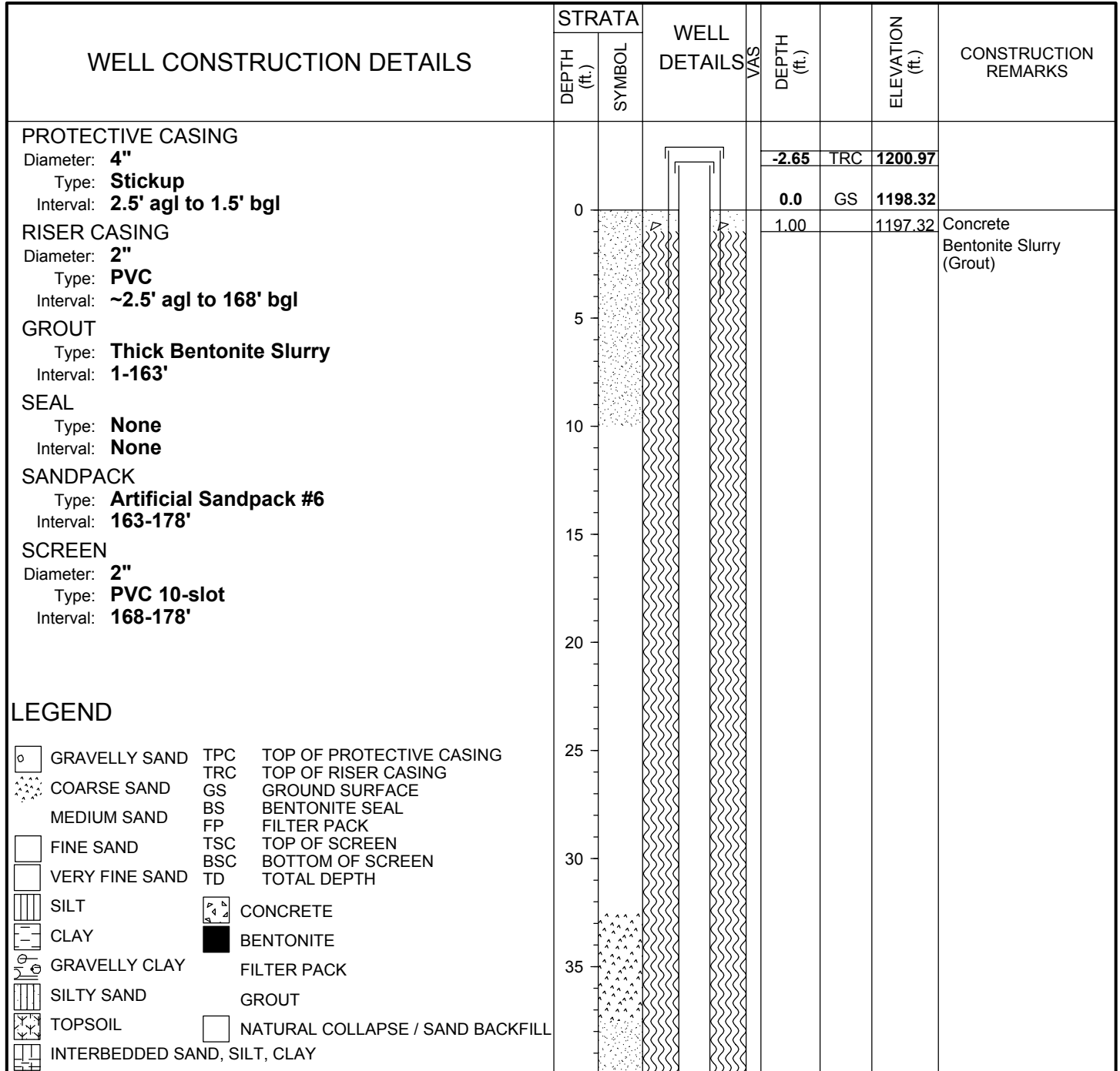
COMPLETION REPORT OF WELL No. MW-114I

PROJECT: **GSWA: Spring Hill Camp Phase III**
 PROJECT NO: **4065-005**
 PROJECT LOCATION: **Osceola Township, MI**

WATER LEVEL: ∇ **66.00** ∇ _____
 DATE: **11-21-00** _____
 TIME: _____

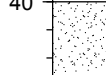

DRILLING CONTRACTOR: **Stearns**
 DRILLING METHOD: **4 1/4" HSA**
 DATE COMPLETED: **November 27, 2000**

GROUND SURFACE ELEVATION: **1198.3**
 DATUM: **USGS**
 LOGGED BY: **Larry Jordan**

















1500 Abbott Road, Suite 210
 East Lansing, MI 48823
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**COMPLETION REPORT OF
WELL No. MW-114I**

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	40						Bentonite Slurry (Grout) (continued)
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						

LEGEND

- | | | | |
|---|------------------------------|---|----------------------------------|
|  | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
|  | COARSE SAND | TRC | TOP OF RISER CASING |
|  | MEDIUM SAND | GS | GROUND SURFACE |
|  | FINE SAND | BS | BENTONITE SEAL |
|  | VERY FINE SAND | FP | FILTER PACK |
|  | SILT | TSC | TOP OF SCREEN |
|  | CLAY | BSC | BOTTOM OF SCREEN |
|  | GRAVELLY CLAY | TD | TOTAL DEPTH |
|  | SILTY SAND |  | CONCRETE |
|  | TOPSOIL |  | BENTONITE |
|  | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | |  | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
(See Previous Page)							
							Bentonite Slurry (Grout) <i>(continued)</i>
	95						
	100						
	105						
	110						
	115						
	120						
	125						
	130						
	135						
	140						

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
							(See Previous Page)
	145						Bentonite Slurry (Grout) <i>(continued)</i>
	150						
	155						
	160						
	163.00				163.00	1035.32	
	165						Artificial Sandpack and Natural Collapse
	170						
	175						
	178.00				178.00	1020.32	
	180						Natural Collapse
	181.00				181.00	1017.32	

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |

COMPLETION REPORT OF WELL No. Seep 1

PROJECT: **GSWA: Spring Hill Camp Phase III**
 PROJECT NO: **4065-005**
 PROJECT LOCATION: **Osceola Township, MI**

WATER LEVEL: ▽ _____ ▽ _____ ▽ _____
 DATE: _____
 TIME: _____

DRILLING CONTRACTOR: **Malcolm Pirnie**
 DRILLING METHOD: **Hand Auger**
 DATE COMPLETED: **June 27, 2000**

GROUND SURFACE ELEVATION: **1088.0**
 DATUM: **USGS**
 LOGGED BY: **Jeff Groncki**

WELL CONSTRUCTION DETAILS	STRATA		WELL DETAILS	V.A.S.	DEPTH (ft.)	ELEVATION (ft.)	CONSTRUCTION REMARKS
	DEPTH (ft.)	SYMBOL					
PROTECTIVE CASING Diameter: None Type: None Interval: None					-3.41	TRC	1091.45
	0				0.0	GS	1088.04
RISER CASING Diameter: 2" Type: PVC Interval: 3.44' agl to 1.56' bgl	5				4.56		1083.48
GROUT Type: None Interval: None							
SEAL Type: None Interval: None							
SANDPACK Type: None Interval: None							
SCREEN Diameter: 2" Type: 10-Slot PVC Interval: 1.56-4.56' bgl							

LEGEND

- | | | | |
|--|------------------------------|-----|----------------------------------|
| | GRAVELLY SAND | TPC | TOP OF PROTECTIVE CASING |
| | COARSE SAND | TRC | TOP OF RISER CASING |
| | MEDIUM SAND | GS | GROUND SURFACE |
| | FINE SAND | BS | BENTONITE SEAL |
| | VERY FINE SAND | FP | FILTER PACK |
| | SILT | TSC | TOP OF SCREEN |
| | CLAY | BSC | BOTTOM OF SCREEN |
| | GRAVELLY CLAY | TD | TOTAL DEPTH |
| | SILTY SAND | | CONCRETE |
| | TOPSOIL | | BENTONITE |
| | INTERBEDDED SAND, SILT, CLAY | | FILTER PACK |
| | | | GROUT |
| | | | NATURAL COLLAPSE / SAND BACKFILL |



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**COMPLETION REPORT OF
WELL No. Seep 1**