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# SOIL AND STRATIGRAPHIC BORING LOG

**MGB-1**
BORING ID

DRILLING METHOD: Rotary Sonic
SAMPLING METHOD: Sonic Barrel 10 ft long core barrels with 6.0 in. continuous casing.
SAMPLER: 4.5 inch ID sonic core barrel
RIG TYPE: Truck Mounted Sonic Rig w/ support
GEOLOGIST: Dan Kelleher and Tim Kemmis
COMPANY: Midwest GeoSciences Group
DRILLER: Boart Longyear Co., Roy Buckenberger
GEOMORPHIC SETTING: Till Plain / Ground Moraine of the New Ulm Till Member (Urban Setting)

**AFTER BORING COMPLETION**

DECOMMISSION: XX
WELL INSTALLATION: ☐
SEALING MATERIAL: High Solids Bentonite Grout
WELL MATERIAL: NA (Example: PVC, Stainless, Steel)
PLACEMENT METHOD: See Decommission Form / Grout Form
SCREEN DEPTH: NA
DATE: Aug 31, 2000
DATE: NA
WELL ID: NA

PROJECT NO: Exploratory Boring
PROJECT: Pre-Workshop Pilot Boring
SITE: Holiday Inn Hotel Parking Lot
GROUND SURFACE ELEV: Approx 895′ msl
COORDINATE TYPE:
N: 944°58'32.5"N W: 93°24'33.5"W
DRILLING DATE START: Aug 31, 2000
DRILLING DATE END: Aug 31, 2000

| DEPTH | SAMPLING DATA: NUMBER | POCKET PEN. $Q_u$ | BLOWS | N VALUE | ATTEMPT | RECOVERY | GRAPHIC | USCS | SOIL DESCRIPTION AND DRILLING COMMENTS | STRAT |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | | | | | | | | ASPHALT PAVEMENT. | |
| | | | | | | | | | QUATERNARY FILL. Brown (10YR 4/3) POORLY GRADED SAND WITH GRAVEL (SP), moist, non-plastic, non-cohesive, massive, pavement subgrade; FILL. | QUATERNARY FILL |
| | 2 | | | | | | | SP | | |
| 1 | | | | | | | | | | |
| | | 3.0 | | | | | | | Very stiff, black (10YR 2/1) and greenish gray (10GY 5/1) SILT WITH GRAVEL (ML), slightly moist, low plasticity, cohesive, faintly bedded, | |
| | | 2.5 | | | | | | | | |
| 2 | | 3.5 | | | | | | ML | little small gravel, disturbed soil/sediment; FILL. | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 3 | | | | | | | | | ORGANIC / LACUSTRINE SEDIMENT. Medium stiff, very dark gray (10YR 3/1), | ORGANIC / LACUSTRINE SEDIMENT |
| | | 1.0 | | | | | | CL | LEAN CLAY (CL), moist, medium plasticity, cohesive, massive, organic, | |
| | | 1.0 | | | | | | | few small gravel, trace sand; POST SETTLEMENT (?) COLLUVIUM. | |
| 4 | | | | | | | | CL | Medium stiff, dark greenish gray (10Y 4/1) LEAN CLAY (CL), moist, | |
| | | 1.0 | | | | | | | medium plasticity, cohesive, massive, few small gravel, trace sand; | |
| | | | | | | | | | LACUSTRINE / COLLUVIUM. | |
| 5 | 3 | | | | | | | CL | Medium stiff, black (10Y 2/1) LEAN CLAY (CL), moist, medium plasticity, | |
| | | 1.0 | | | | | | | cohesive, faintly laminated, organic, noncalcareous, A-Horizon of buried | |
| | | 1.0 | | | | | | | soil profile, LACUSTRINE / COLLUVIUM. | |
| 6 | | | | | | | | | DES MOINES LOBE GLACIAL SEDIMENT - NEW ULM TILL MEMBER. Soft to medium | DES MOINES LOBE GLACIAL SEDIMENT NEW ULM TILL MEMBER |
| | | | | | | | | | stiff, greenish gray (5GY 5/1) SANDY LEAN CLAY (CL), moist, low to medium | |
| | | | | | | | | | plasticity, cohesive, variably bedded, some non-uniform sand, few small | |
| 7 | | | | | | | | | gravel, weak secondary soil structure, B-Horizon of buried | |
| | | | | | | | | | soil profile; RESEDIMENTED DIAMICTON. | |
| | | | | | | | | CL | | |
| | | 0.5 | | | | | | | | |
| | | 0.5 | | | | | | | | |
| 8 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 9 | | 1.0 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | CL | Medium stiff, greenish gray (10Y 6/1) mottled with strong brown (7.5YR 5/8) | |
| 10 | | | | | | | | | (continued on Page 2) | |

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# SOIL AND STRATIGRAPHIC BORING LOG

**MGB-1**
BORING ID

DRILLING METHOD: Rotary Sonic
SAMPLING METHOD: Sonic Barrel 10 ft long core barrels with 6.0 in. continuous casing.
SAMPLER: 4.5 inch ID sonic core barrel
RIG TYPE: Truck Mounted Sonic Rig w/ support
GEOLOGIST: Dan Kelleher and Tim Kemmis
COMPANY: Midwest GeoSciences Group
DRILLER: Boart Longyear Co., Roy Buckenberger
GEOMORPHIC SETTING: Till Plain / Ground Moraine of the New Ulm Till Member (Urban Setting)

**AFTER BORING COMPLETION**

DECOMMISSION: XX
WELL INSTALLATION: ☐
SEALING MATERIAL: High Solids Bentonite Grout
WELL MATERIAL: NA (Example: PVC, Stainless, Steel)
PLACEMENT METHOD: See Decommission Form / Grout Form
SCREEN DEPTH: NA
DATE: Aug 31, 2000
DATE: NA
WELL ID: NA

PROJECT NO: Exploratory Boring
PROJECT: Pre-Workshop Pilot Boring
SITE: Holiday Inn Hotel Parking Lot
GROUND SURFACE ELEV: Approx 895′ msl
COORDINATE TYPE:
N: 944°58'32.5"N W: 93°24'33.5"W
DRILLING DATE START: Aug 31, 2000
DRILLING DATE END: Aug 31, 2000

| DEPTH | SAMPLING DATA: NUMBER | POCKET PEN. $Q_u$ | BLOWS | N VALUE | ATTEMPT | RECOVERY | GRAPHIC | USCS | SOIL DESCRIPTION AND DRILLING COMMENTS | STRAT |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 4 | | | | | | | | (continued from 9.5 feet on Page 1) | DES MOINES LOBE GLACIAL SEDIMENT NEW ULM TILL MEMBER |
| | | 0.5 | | | | | | | Medium stiff, greenish gray (10Y 6/1) mottled with strong brown (7.5YR 5/8) SANDY LEAN CLAY (CL), moist, low to medium plasticity, cohesive, variably bedded with beds of variable sand and variable small gravel, MRU, litte sand, few small gravel clasts; RESEDIMENTED DIAMICTON. | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | CL | | |
| | | 0.5 | | | | | | | | |
| | | 1.0 | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | 0.5 | | | | | | | Soft to medium stiff, very dark gray (5Y 4/1) CLAYEY SAND (SC), moist, low plasticity, cohesive, variably bedded, UU, variable sand, few small gravel clasts, RESEDIMENTED DIAMICTON. | |
| | | 0.5 | | | | | | SC | | |
| 15 | 5 | | | | | | | | | |
| | | 1.0 | | | | | | | | |
| 16 | | | | | | | | | Very dark gray (5Y 4/1) POORLY GRADED SAND (SP), moist, non-plastic, non-cohesive, massive, UU, fine to medium sand, trace small gravel, NON-COHESIVE SAND WITHIN THE RESEDIMENTED DIAMICTON. | |
| 17 | | | | | | | | SP | | |
| | | 1.0 | | | | | | | Medium Stiff, very dark gray (5Y 4/1) SANDY LEAN CLAY (CL), moist, low to medium plasticity, cohesive, variably bedded with differing sand and small gravel content, UU, some sand, few small gravel, RESEDIMENTED DIAMICTON. | |
| 18 | | 0.5 | | | | | | CL | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | (continued on Page 3) | |

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# SOIL AND STRATIGRAPHIC BORING LOG

**MGB-1**
BORING ID

DRILLING METHOD: Rotary Sonic
SAMPLING METHOD: Sonic Barrel 10 ft long core barrels with 6.0 in. continuous casing.
SAMPLER: 4.5 inch ID sonic core barrel
RIG TYPE: Truck Mounted Sonic Rig w/ support
GEOLOGIST: Dan Kelleher and Tim Kemmis
COMPANY: Midwest GeoSciences Group
DRILLER: Boart Longyear Co., Roy Buckenberger
GEOMORPHIC SETTING: Till Plain / Ground Moraine of the New Ulm Till Member (Urban Setting)

**AFTER BORING COMPLETION**

DECOMMISSION: XX
WELL INSTALLATION:
SEALING MATERIAL: High Solids Bentonite Grout
WELL MATERIAL: NA (Example: PVC, Stainless, Steel)
PLACEMENT METHOD: See Decommission Form / Grout Form
SCREEN DEPTH: NA
DATE: Aug 31, 2000
DATE: NA
WELL ID: NA

PROJECT NO: Exploratory Boring
PROJECT: Pre-Workshop Pilot Boring
SITE: Holiday Inn Hotel Parking Lot
GROUND SURFACE ELEV: Approx 895′ msl
COORDINATE TYPE:
N: 944°58'32.5"N W: 93°24'33.5"W
DRILLING DATE START: Aug 31, 2000
DRILLING DATE END: Aug 31, 2000

| DEPTH | SAMPLING DATA: NUMBER | POCKET PEN. $Q_u$ | BLOWS | N VALUE | ATTEMPT | RECOVERY | GRAPHIC | USCS | SOIL DESCRIPTION AND DRILLING COMMENTS | STRAT |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 6 | | | | | | | CL | (continued from 17.25 feet on Page 2) | DES MOINES LOBE GLACIAL SEDIMENT NEW ULM TILL MEMBER |
| 21 | | 1.0 | | | | | | | Medium stiff to very stiff, very dark gray (5Y 4/1) mottled with very dark grayish brown (10YR 3/2) SANDY LEAN CLAY (CL), moist, low to medium plasticity, cohesive, massive, MUU, some sand, few small gravel clasts, DIAMICTON. | |
| 22 | | 1.5 | | | | | | | | |
| | | 2.0 | | | | | | | | |
| | | 2.0 | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | CL | | |
| 25 | 7 | | | | | | | | | |
| 26 | | 3.5 | | | | | | | | |
| | | >4.0 | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | 3.0 | | | | | | | Very stiff to hard, very dark grayish brown (10YR 3/2) SANDY LEAN CLAY (CL), moist, low to medium plasticity, cohesive, massive, UU, some sand, few small gravel clasts, DIAMICTON. | |
| | | 3.0 | | | | | | | | |
| | | >4.0 | | | | | | CL | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | (continued on Page 4) | |

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# SOIL AND STRATIGRAPHIC BORING LOG

**MGB-1**
BORING ID

DRILLING METHOD: Rotary Sonic
SAMPLING METHOD: Sonic Barrel 10 ft long core barrels with 6.0 in. continuous casing.
SAMPLER: 4.5 inch ID sonic core barrel
RIG TYPE: Truck Mounted Sonic Rig w/ support
GEOLOGIST: Dan Kelleher and Tim Kemmis
COMPANY: Midwest GeoSciences Group
DRILLER: Boart Longyear Co., Roy Buckenberger
GEOMORPHIC SETTING: Till Plain / Ground Moraine of the New Ulm Till Member (Urban Setting)

**AFTER BORING COMPLETION**

DECOMMISSION: XX
WELL INSTALLATION: ☐
SEALING MATERIAL: High Solids Bentonite Grout
WELL MATERIAL: NA (Example: PVC, Stainless, Steel)
PLACEMENT METHOD: See Decommission Form / Grout Form
SCREEN DEPTH: NA
DATE: Aug 31, 2000
DATE: NA
WELL ID: NA

PROJECT NO: Exploratory Boring
PROJECT: Pre-Workshop Pilot Boring
SITE: Holiday Inn Hotel Parking Lot
GROUND SURFACE ELEV: Approx 895′ msl
COORDINATE TYPE:
N: 944°58'32.5"N W: 93°24'33.5"W
DRILLING DATE START: Aug 31, 2000
DRILLING DATE END: Aug 31, 2000

| DEPTH | SAMPLING DATA: NUMBER | POCKET PEN. $Q_u$ | BLOWS | N VALUE | ATTEMPT | RECOVERY | GRAPHIC | USCS | SOIL DESCRIPTION AND DRILLING COMMENTS | STRAT |
|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 8 | | | | | | | CL | (continued from 27.25 feet on Page 3) | DES MOINES LOBE GLACIAL SEDIMENT NEW ULM TILL MEMBER |
| 31 | | 3.0 | | | | | | | Very stiff to hard, very dark gray (5Y 4/1) mottled with very dark grayish brown (10YR 3/2) SANDY LEAN CLAY (CL), moist, low to medium plasticity, cohesive, massive, MUU, some sand, few small gravel clasts, DIAMICTON. | |
| 32 | | 4.0 | | | | | | | | |
| | | 3.0 | | | | | | | | |
| | | >4.0 | | | | | | | | |
| 33 | | | | | | | | CL | | |
| 34 | | | | | | | | | | |
| 35 | 9 | | | | | | | | PROGLACIAL SORTED SEDIMENT (UNIT 2). Very dark grayish brown (10YR 3/2) POORLY GRADED SAND (SP), moist, non-plasticity, non-cohesive, massive, UU, mostly medium-grained sand, GLACIOFLUVIAL OUTWASH FACIES. | PROGLACIAL SORTED SEDIMENT (UNIT 2) |
| 36 | | | | | | | | | | |
| 37 | | | | | | | | SP | | |
| 38 | | | | | | | | | | |
| 39 | | | | | | | | | | |
| 40 | | | | | | | | SW | Dark grayish brown (10YR 4/2) WELL GRADED SAND (SW) moist, non-plasticity, (continued on Page 5) | |

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**MGB-1**
BORING ID

DRILLING METHOD: Rotary Sonic
SAMPLING METHOD: Sonic Barrel 10 ft long core barrels with 6.0 in. continuous casing.
SAMPLER: 4.5 inch ID sonic core barrel
RIG TYPE: Truck Mounted Sonic Rig w/ support
GEOLOGIST: Dan Kelleher and Tim Kemmis
COMPANY: Midwest GeoSciences Group
DRILLER: Boart Longyear Co., Roy Buckenberger
GEOMORPHIC SETTING: Till Plain / Ground Moraine of the New Ulm Till Member (Urban Setting)

**AFTER BORING COMPLETION**

DECOMMISSION: XX
WELL INSTALLATION:
SEALING MATERIAL: High Solids Bentonite Grout
WELL MATERIAL: NA (Example: PVC, Stainless, Steel)
PLACEMENT METHOD: See Decommission Form / Grout Form
SCREEN DEPTH: NA
DATE: Aug 31, 2000
DATE: NA
WELL ID: NA

PROJECT NO: Exploratory Boring
PROJECT: Pre-Workshop Pilot Boring
SITE: Holiday Inn Hotel Parking Lot
GROUND SURFACE ELEV: Approx 895' msl
COORDINATE TYPE:
N: 944°58'32.5"N W: 93°24'33.5"W
DRILLING DATE START: Aug 31, 2000
DRILLING DATE END: Aug 31, 2000

| DEPTH | SAMPLING DATA: NUMBER | POCKET PEN. $Q_u$ | BLOWS | N VALUE | ATTEMPT | RECOVERY | GRAPHIC | USCS | SOIL DESCRIPTION AND DRILLING COMMENTS | STRAT |
|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 10 | | | | | | | | (continued from 39.5 feet on Page 4) | PROGLACIAL SORTED SEDIMENTS (UNIT 2) |
| | | | | | | | | SW | Dark grayish brown (10YR 4/2) WELL GRADED SAND (SW), moist, non-plastic, non-cohesive, massive, UU, variable sand with few small gravel, GLACIOFLUVIAL OUTWASH FACIES. | |
| 41 | | | | | | | | | | |
| 42 | | | | | | | | SP | Grayish brown (10YR 5/2) POORLY GRADED SAND (SP), moist, non-plastic, non-cohesive, massive, UU, mostly fine sand; GLACIOFLUVIAL OUTWASH FACIES. | |
| 43 | | | | | | | | | Dark grayish brown (10YR 4/2) WELL GRADED SAND (SW), moist, non-plastic, non-cohesive, massive, UU, variable sand with little small gravel; GLACIOFLUVIAL OUTWASH FACIES. | |
| 44 | | | | | | | | SW | | |
| 45 | 11 | | | | | | | | | |
| 46 | | | | | | | | | Grayish brown (10YR 5/2) POORLY GRADED SAND (SP), moist, non-plastic, non-cohesive, massive, UU, mostly medium sand; GLACIOFLUVIAL OUTWASH FACIES. | |
| 47 | | | | | | | | SP | | |
| 48 | | 0.25 | | | | | | ML | Soft, gray (10YR 5/1) SILT (ML), moist, non-plastic to low plasticity, cohesive, massive, UU, trace gravel up to 4.0 cm diameter, FINE-GRAINED SEDIMENT WITHIN GLACIOFLUVIAL OUTWASH FACIES. | |
| 49 | | | | | | | | SP | Grayish Brown (10YR 5/2) POORLY GRADED SAND (SP), moist, non-plastic, non-cohesive, massive, UU, mostly medium sand; GLACIOFLUVIAL OUTWASH FACIES. | |
| 50 | | | | | | | | | (continued on Page 6) | |

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**MGB-1**
BORING ID

DRILLING METHOD: Rotary Sonic
SAMPLING METHOD: Sonic Barrel 10 ft long core barrels with 6.0 in. continuous casing.
SAMPLER: 4.5 inch ID sonic core barrel
RIG TYPE: Truck Mounted Sonic Rig w/ support
GEOLOGIST: Dan Kelleher and Tim Kemmis
COMPANY: Midwest GeoSciences Group
DRILLER: Boart Longyear Co., Roy Buckenberger
GEOMORPHIC SETTING: Till Plain / Ground Moraine of the New Ulm Till Member (Urban Setting)

**AFTER BORING COMPLETION**

DECOMMISSION: XX
WELL INSTALLATION:
SEALING MATERIAL: High Solids Bentonite Grout
WELL MATERIAL: NA (Example: PVC, Stainless, Steel)
PLACEMENT METHOD: See Decommission Form / Grout Form
SCREEN DEPTH: NA
DATE: Aug 31, 2000
DATE: NA
WELL ID: NA

PROJECT NO: Exploratory Boring
PROJECT: Pre-Workshop Pilot Boring
SITE: Holiday Inn Hotel Parking Lot
GROUND SURFACE ELEV: Approx 895′ msl
COORDINATE TYPE:
N: 944°58'32.5"N W: 93°24'33.5"W
DRILLING DATE START: Aug 31, 2000
DRILLING DATE END: Aug 31, 2000

| DEPTH | SAMPLING DATA: NUMBER | POCKET PEN. $Q_u$ | BLOWS | N VALUE | ATTEMPT | RECOVERY | GRAPHIC | USCS | SOIL DESCRIPTION AND DRILLING COMMENTS | STRAT |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 12 | | | | | | | | (continued from 48.25 feet on Page 5) | |
| | | 0.5 | | | | | | | SUPERIOR LOBE GLACIAL SEDIMENT. Medium stiff, reddish brown (5YR 4/3) | SUPERIOR LOBE GLACIAL SEDIMENT |
| | | 0.5 | | | | | | | SANDY SILT (ML), moist, non-plastic to low plasticity, cohesive, bedded, | |
| 51 | | | | | | | | ML | UU, trace small gravel; DIAMICTON. | |
| 52 | | | | | | | | | PROGLACIAL SORTED SEDIMENT (UNIT 1). Dark grayish brown (10YR 4/2) SILTY SAND (SM), moist, non-plastic, non-cohesive, massive, RU, fine sand, trace small gravel; GLACIOFLUVIAL OUTWASH FACIES. | PROGLACIAL SORTED SEDIMENT (UNIT 1) |
| 53 | | | | | | | | SM | | |
| 54 | | | | | | | | SP | Grayish brown (10YR 5/2) POORLY GRADED SAND (SP), moist, non-plastic, non-cohesive, massive, RU, mostly medium sand; GLACIOFLUVIAL OUTWASH FACIES. | |
| 55 | 13 | | | | | | | | Grayish brown (10YR 5/2) SILTY SAND WITH GRAVEL (SM), moist, non-plastic, non-cohesive, bedded and normally graded, RU, variable sand; few gravel clasts to 8 cm diameter normally graded downward; DIAMICTON WITHIN GLACIOFLUVIAL OUTWASH FACIES. | |
| 56 | | | | | | | | SM | | |
| 57 | | | | | | | | | | |
| 58 | | | | | | | | SP | Grayish brown (10YR 5/2) POORLY GRADED SAND WITH GRAVEL (SP), moist, non-plastic, non-cohesive, bedded, UU, mostly fine to medium sand, trace small gravel; GLACIOFLUVIAL OUTWASH FACIES. | |
| 59 | | | | | | | | | TOP OF BEDROCK AT 59.0 FEET. | |
| | | | | | | | | ML | SHAKOPEE FORMATION AND ONEOTA DOLOMITE OF THE PRAIRIE du CHIEN GROUP. Hard, gray (10YR 5/1) SILT (ML), slightly moist, non-plastic, non-cohesive, bedded, decomposed; SAPROLITIC DOLOMITE. | SHAKOPEE FORM. |
| 60 | | | | | | | | | | |

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GEOMORPHIC SETTING: Till Plain / Ground Moraine of the New Ulm Till Member (Urban Setting)

**AFTER BORING COMPLETION**

DECOMMISSION: XX
WELL INSTALLATION: ☐
SEALING MATERIAL: High Solids Bentonite Grout
WELL MATERIAL: NA (Example: PVC, Stainless, Steel)
PLACEMENT METHOD: See Decommission Form / Grout Form
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DATE: Aug 31, 2000
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|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 14 | | | | | | | | (continued from 59.0 feet on Page 6) | SHAKOPEE FORMATOIN |
| | | | | | | | | | SHAKOPEE FORMATION AND ONEOTA DOLOMITE OF THE PRAIRIE du CHIEN GROUP. Hard, white (N 8/0) microcrystalline DOLOMITE, fresh, compentent, dry (from drilling process). | |
| 61 | | | | | | | | ROCK | | |
| 62 | | | | | | | | | END OF BORING AT 62.0 FEET. | |
| 63 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 65 | | | | | | | | | | |
| 66 | | | | | | | | | | |
| 67 | | | | | | | | | | |
| 68 | | | | | | | | | | |
| 69 | | | | | | | | | | |
| 70 | | | | | | | | | | |