

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling	Sample Recovery	Soil Graph	Ground Water Table				DESCRIPTION Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.
								Depth in Ft.	Time	Date		
RB				0				No Ground Water Table Encountered				Brown clayey silt with sand and pieces of flat angular gravel Small pieces of gypsum Brown clayey silt with sand to some sand.
				1								
				2								
				3								- Mancos Shale - Highly weathered to weathered brownish gray shale
				4								
				5								Drove casing to 5'
				6								
				7								
				8								
				9								
BX Core				10								Weathered dk gray shale. Some gypsum healed fractures A few small pieces of gypsum
				11								
				12								
RB BX Core				13								Reamed out with RB.
				14								
				15								Weathered dk gray shale to sandy shale
				16								
				17								
				18								Reamed out with RB
				19								
				20								

Date Begun 3-27-80Date Completed 3-27-80

Hole Diameter _____

Project No. I-70-3(21)160Project Name Green River to ElginCut InvestigationUTAH DEPARTMENT OF TRANSPORTATION
MATERIALS AND TESTS SECTION
DRILLING LOGHole No. 1Sheet 2 of 3Total Depth 50'

Type of Structure _____

Equation Project Line Sta.
Other Line Sta. _____

Sta. of Structure _____

Hole Sta. 167+62Rt. — Ft. Lt. 15 Ft. of EAL I-80

Collar Elevation _____

Reference _____

Method Used _____

Field Party Powell, Gold & MorganRig B-61

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling	Sample Recovery	Soil Graph	Ground Water Table				DESCRIPTION Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.	
								Depth in Ft.	Time	Date			
BX Core				2.0									
				1									Weathered dk gray shale with a few beds of sandy shale A 3/4" thick seam of gypsum at approx. 22-8'
				2									
				3									Reamed out with RB
				4									
				25									Weathered dk gray shale with a few 1/4"-1/2" beds of siltstone Trace of gypsum
				6									
				7									
				8									
				9									
				30									Weathered, tannish dk gray argillaceous sandstone
				1									Weathered dk gray shale and sandy shale. A few 1/2" beds of siltstone
				2									
				3									
				4									Slightly weathered dk tan to dark gray siltstone to argillaceous siltstone
				35									Slightly weathered dk gray shale to sandy shale. Trace of gypsum
				6									
				7									
				8									
				9									
			40										Dk gray fine grained sandstone (Slightly silty)

Date Begun 3-27-80

Date Completed 3-27-80

Hole Diameter _____

Project No. I-70-3(21)160

Project Name Green River to Elgin

Cut Investigation

Type of Structure.

Sta. of Structure.

Collar Elevation

Field Party Powell, Gold & Morgan

UTAH DEPARTMENT OF TRANSPORTATION
MATERIALS AND TESTS SECTION
DRILLING LOG

Hole No. 1

Sheet 3 of 3

Total Depth 50'

Equation $\frac{\text{Project Line Sta.}}{\text{Other Line Sta.}}$ Rt. — Ft., Lt. 15 Ft., of EBL I-70

Method Used _____

Rig B-61

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling	Sample Recovery	Soil Graph	Ground Water Table						DESCRIPTION Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.
								Depth in Ft.						
								Time						
								Date						
BX Core				40				Dk gray fine grained sandstone (Slightly silty). A fracture from 41'-41.7' filled with gypsum						
				2				Tannish dk gray, argillaceous, fine grained sandstone						
				3				Dk gray fine grained sandstone (Slightly silty). Fractured fractures filled with gypsum from 42.6'-43.0'						
				4				Weathered argillaceous fine grained sandstone						
				45				Dk gray fine grained sandstone (Slightly silty)						
				6				Weathered dk tan to dk gray shale to sandy shale						
				7				Grayish brown, very fine grained, silty sandstone						
				8				Weathered gray to dark gray shale						
				9										
				10										
				11										
				12										
				13										
				14										
				15										
				16										
				17										
				18										
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				47										
				48										
				49										

Date Begun 4-1-80
 Date Completed _____
 Hole Diameter 4"
 Project No. T-70-3(2)160

UTAH DEPARTMENT OF TRANSPORTATION
 MATERIALS AND TESTS SECTION
 DRILLING LOG

Hole No. 2
 Sheet 1 of 4
 Total Depth 78'

Project Name Green River to Elgin Emery Co
Cut Investigation

Type of Structure _____ Equation _____ Project Line Sta. _____
 Other Line Sta. _____
 Sta. of Structure _____ Hole Sta. 222 + 86 Rt. — Ft., Lt. 28 Ft., of EBL I-70
 Collar Elevation 4161 ± Reference Plan & Profile Method Used Tape & Compass
 Field Party Powell, Gold & Morgan Rig R-61

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling	Sample Recovery	Soil Graph	Ground Water Table			
								Depth in Ft.	No Ground Water Table encountered		
								Time			
								Date			
DESCRIPTION											
Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.											
RB				0					Dk tan clayey silt with sand and gravel. Some cobbles on the surface.		
				1					— Cedar Mountain fm —		
				2					Highly weathered to weathered greenish tan claystone		
				3							
				4							
				5					Pushed and drove casing to 5'		
NX Core				5.5					Dk gray slightly argillaceous dolomite		
RB				6					Core barrel blocked off twice. Reamed and drilled down to 7.8'		
				7					Weathered tan to greenish tan claystone. Some thin beds of sandy claystone. A few pieces of small gravel.		
				8					Drove casing to 8'		
				9					Weathered greenish tan to dk tan very fine sandstone.		
NX Core				10					Dk tan very fine grained sandstone with calcareous cementation		
				11							
				12					Dk tan claystone (Slightly calcareous)		
				13					Dk tan claystone (Slightly calcareous) with a few 1/4"-1/2" beds of fine grained sandstone		
				14							
				15					Some almost vertical joints from 15'-17'		
				16							
				17					Dk tan very fine grained sandstone with calcareous cementation. A few thin beds of greenish tan shale.		
				18							
				19							
				20							

Date Begun 4-1-80UTAH DEPARTMENT OF TRANSPORTATION
MATERIALS AND TESTS SECTION
DRILLING LOGHole No. 2

Date Completed _____

Sheet 2 of 4

Hole Diameter _____

Total Depth 78'Project No. I-70-3 (21) 160Project Name Green River to ElginCut InvestigationEquation _____ Project Line Sta. _____
Other Line Sta. _____

Type of Structure _____

Sta. of Structure _____ Hole Sta. 222+86 Rt. — Ft., Lt. 28 Ft., of EBL I-70

Collar Elevation _____ Reference _____ Method Used _____

Field Party Powell, Morgan & Gold Rig B-61

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling	Sample Recovery	Soil Graph	Ground Water Table				DESCRIPTION Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.		
								Depth in Ft.	Time	Date				
NX Core				2.0									Greenish tan claystone (Bentonitic)	
													Dk tan siltstone (slightly calcareous)	
													Greenish gray claystone with a 1/2" bed of siltstone	
													Dk tan siltstone (slightly calcareous)	
													Partial recirculation of drilling water	
													Greenish gray claystone with irregular shaped nodules of dk tan siltstone (Bentonitic)	
													Greenish siltstone (Slightly calcareous)	
					2.5									Greenish gray claystone with a few 1/4"-1/2" beds siltstone (Bentonitic)
					6									
					7									
					8									
					9									Greenish gray argillaceous siltstone with some pieces of gravel
					30									
					1									
					2									
					3									
					4									Gray silty, very fine grained sandstone with calcareous cementation
					35									
					6									Greenish gray claystone
					7									
				8										
				9									Grayish dk tan silty limestone	
				40									Greenish gray mudstone with a few pieces of gravel	

Date Begun 4-1-80

UTAH DEPARTMENT OF TRANSPORTATION
MATERIALS AND TESTS SECTION
DRILLING LOG

Hole No. 2

Date Completed _____

Sheet 3 of 4

Hole Diameter _____

Total Depth 78'

Project No. I-70-3(21)160

Project Name Green River to Elgin

Cut Investigation

Equation $\frac{\text{Project Line Sta.}}{\text{Other Line Sta.}}$ _____

Type of Structure

Sta. of Structure _____ Hole Sta. 222 + 86 Rt. — Ft., Lt. 28 Ft., of & EBL I-70

Collar Elevation _____ Reference _____ Method Used _____

Field Party Powell, Gold & Morgan Rig B-61

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling Sample Recovery Soil Graph	Ground Water Table					
						Depth in Ft.					
						Time					
						Date					
DESCRIPTION											
Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.											
NX Core				0		Greenish gray argillaceous siltstone with some gravel. A few thin beds of siltstone					
				1							
				2							
				3		Almost vertical joint 4-2-80					
				4		Greenish tan shale with a few 1/8"-1/4" beds siltstone 4-3-80					
				5		Greenish gray mudstone. Some pieces of gravel					
				6		Greenish gray siltstone (Varying amount of calcareous cementation) A varying amount of sand.					
				7							
				8							
				9							
				10		Greenish light gray claystone with a varying amounts of silt. A few thin beds of siltstone					
				11							
				12							
				13							
				14		Greenish gray sandy siltstone with calcareous cementation. A few small nodules of limestone. Some near vertical joints					
				15							
				16							
				17		Greenish gray silty claystone					
				18		Greenish gray claystone					
				19		Greenish gray clayey siltstone					
				20							

Date Begun 4-1-80

UTAH DEPARTMENT OF TRANSPORTATION
MATERIALS AND TESTS SECTION
DRILLING LOG

Hole No. 2

Date Completed _____

Sheet 4 of 4

Hole Diameter _____

Total Depth 78'

Project No. I-70-3(21)160

Project Name Green River to Elgin

Project Name Cut Investigation

Equation $\frac{\text{Project Line Sta.}}{\text{Other Line Sta.}}$

Type of Structure

Sta. of Structure _____ Hole Sta. 222+86 Rt. — Ft., Lt. 28 Ft., of & ERL I-70

Collar Elevation _____ Reference _____ Method Used _____

Field Party Powell, Gold & Morgan

Rig B-61

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling	Sample Recovery	Soil Graph	Ground Water Table						
								Depth in Ft.						
								Time						
								Date						
								DESCRIPTION						
								Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.						
NX Core				0				Dk greenish gray siltstone. (Very slightly calcareous) Badly broken up.						
				1										
				2										
				3				4-3-80 4-8-80						
				4				Dk greenish gray silty shale Dk greenish gray siltstone Greenish gray silty claystone						
				5										
				6				Dk greenish gray argillaceous siltstone with a trace gravel Dk tan limestone						
				7				Dk greenish gray siltstone with a trace of gravel (mostly limestone)						
				8				Greenish gray silty claystone with a few thin of siltstone Greenish gray siltstone with thin beds shale						
				9										
				10				thin beds of siltstone from 70'-70.5'						
				11				Reddish dark gray claystone						
				12				• Reddish brown siltstone (slightly calcareous) A few thin beds of argillaceous siltstone						
				13				Reddish brown siltstone (slightly calcareous) with some nodules of limestone						
				14										
				15				Reddish dk brown to reddish dark gray claystone to silty claystone. A few 1"-3" beds of siltstone and argillaceous siltstone						
				16										
				17										
				18				TD - 78' 4-8-80						
				19										
				20										

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling	Sample Recovery	Soil Graph	Ground Water Table				DESCRIPTION Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.
								Depth in Ft.	Time	Date		
RB				0				No Ground Water Table encountered				DK tan sandy silt with some gravel
				1								DK tan sand and gravel with silt. An occasional cobble
				2								
				3								
				4								
				5								
				6								
				7								
				8				— Cedar Mountain fm — Pushed and drove casing to 8'				
BX Core				9								Weathered tan claystone
				10								
				11								
				12								
				13								
				14								
				15								Olive argillaceous siltstone to siltstone. Fractured or jointed
				16								
				17								
				18								
				19								
				20								
				21								
				22								
				23								
				24								
				25								
				26								
				27								
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				57								
				58								
				59								
				60								

Date Begun 4-8-80Date Completed 4-9-80

Hole Diameter _____

Project No. I-70-3(21)160Project Name Green River to ElginCut InvestigationUTAH DEPARTMENT OF TRANSPORTATION
MATERIALS AND TESTS SECTION
DRILLING LOGHole No. 3Sheet 3 of 3Total Depth 41'

Type of Structure _____

Equation _____
Project Line Sta. _____
Other Line Sta. _____Sta. of Structure _____ Hole Sta. 211 + 28 Rt. — Ft., Lt. 36 Ft., of EBL I-80

Collar Elevation _____ Reference _____ Method Used _____

Field Party Powell, Gold & Morgan Rig B61

Drilling Method	Casing Depth	Blows per Foot	Sample Number	Depth in Feet	Sampling	Sample Recovery	Soil Graph	Ground Water Table				DESCRIPTION Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths circulation lost, observed fluctuations in water level, notes on drilling ease, bits used, etc.
								Depth in Ft.	Time	Date		
BX Core ↓				40								Greenish gray claystone with a few thin beds argillaceous siltstone
												Bentonite
												Greenish gray claystone
												Blocked off

TD-41

4-9-80