

Log of Boring No. BRC-SB-16-A

BMI Site - Hydrogeologic Characterization

Henderson, Nevada



Drilling Method: Mud Rotary
Drilling Equipment: Gefco 15K
Drilling Contractor: Water Development Corporation
Driller: Juan Aguilar

Borehole Total Depth: 400 ft bgs
Borehole Diameter: 10 in
Boring Location: Location 16 (Well ID: MCF-16A)
Depth to Water (ft. bgs): NA

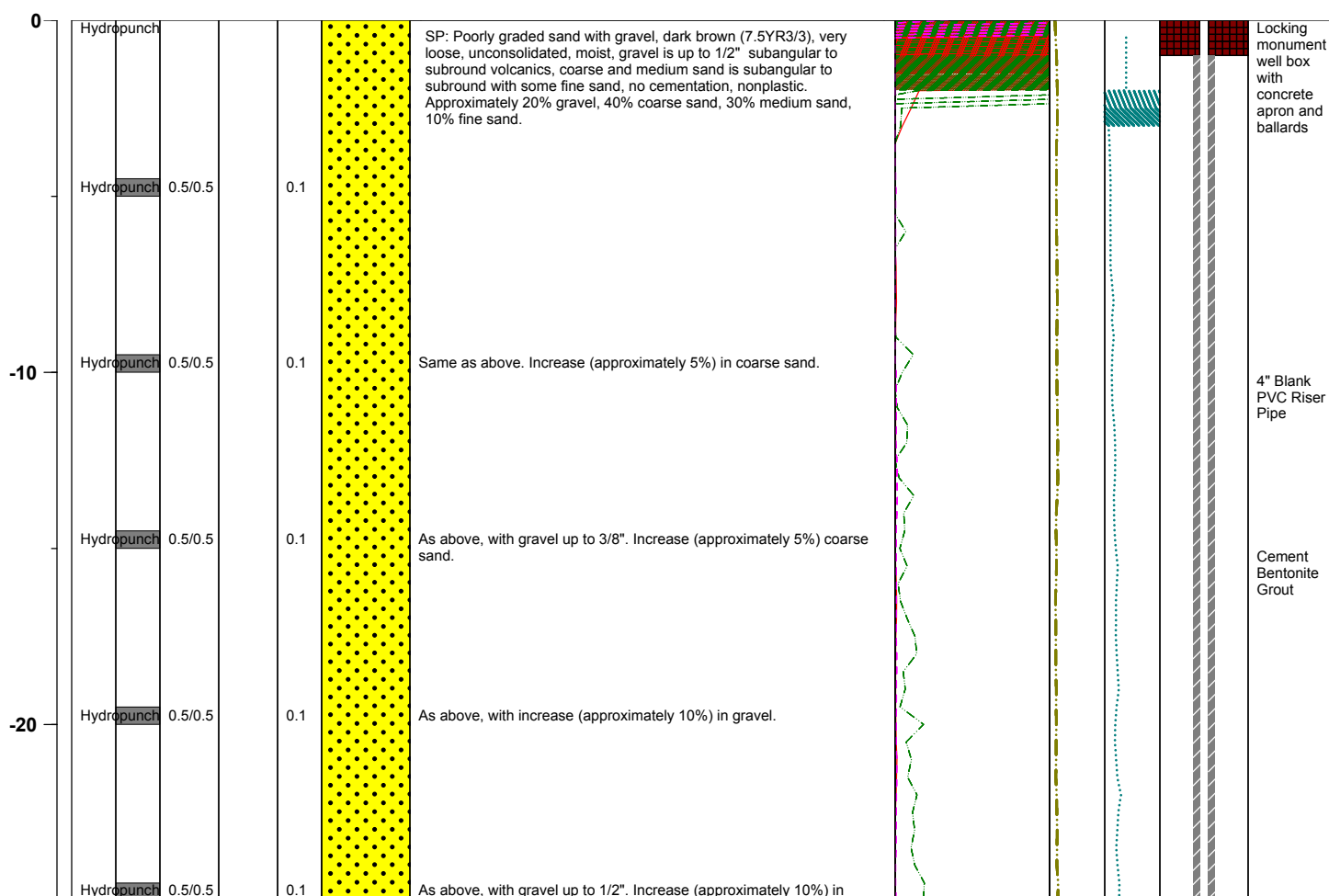
Sample Type: HP/S.S.
Sample Interval: 5 ft

Logged By: Dave Kremer
Date Started: 3/21/04
Date Completed: 3/21/04

Monitoring Well Construction

Type of Surface Seal:	Bentonite-Grout	Screen Slot Size:	0.010 in
Blank Casing Type/Size:	4" Sch 80 PVC	Top of Screen (ft. bgs):	364.5 ft bgs
Screen Type/Size:	4" Sch 80 PVC	Bottom of Screen (ft. bgs):	384.5 ft bgs
Transition Sand Type:	#1C	Type of Sand Pack:	#10 x 20

Depth Elevation (BGS)	Sample Type	Sample Interval	Sample Recovery	Sample Retained for Analysis	PID	Lithology	Soil Description	Geophysical Data				Well Construction
								E-Log		Caliper Log (inch)	Guard Log (OHM.M)	
								16" (OHM)	64" (OHM)			



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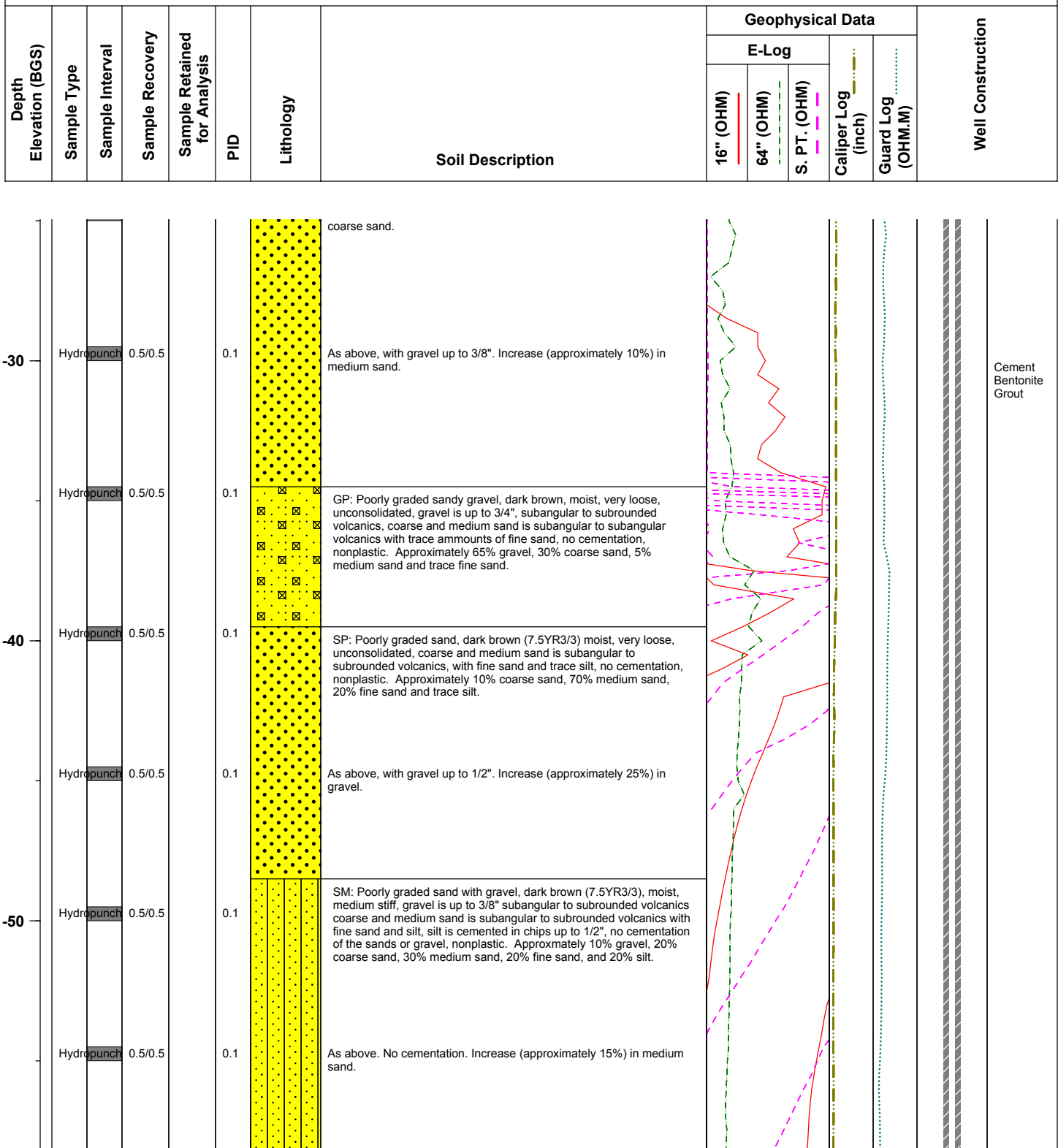


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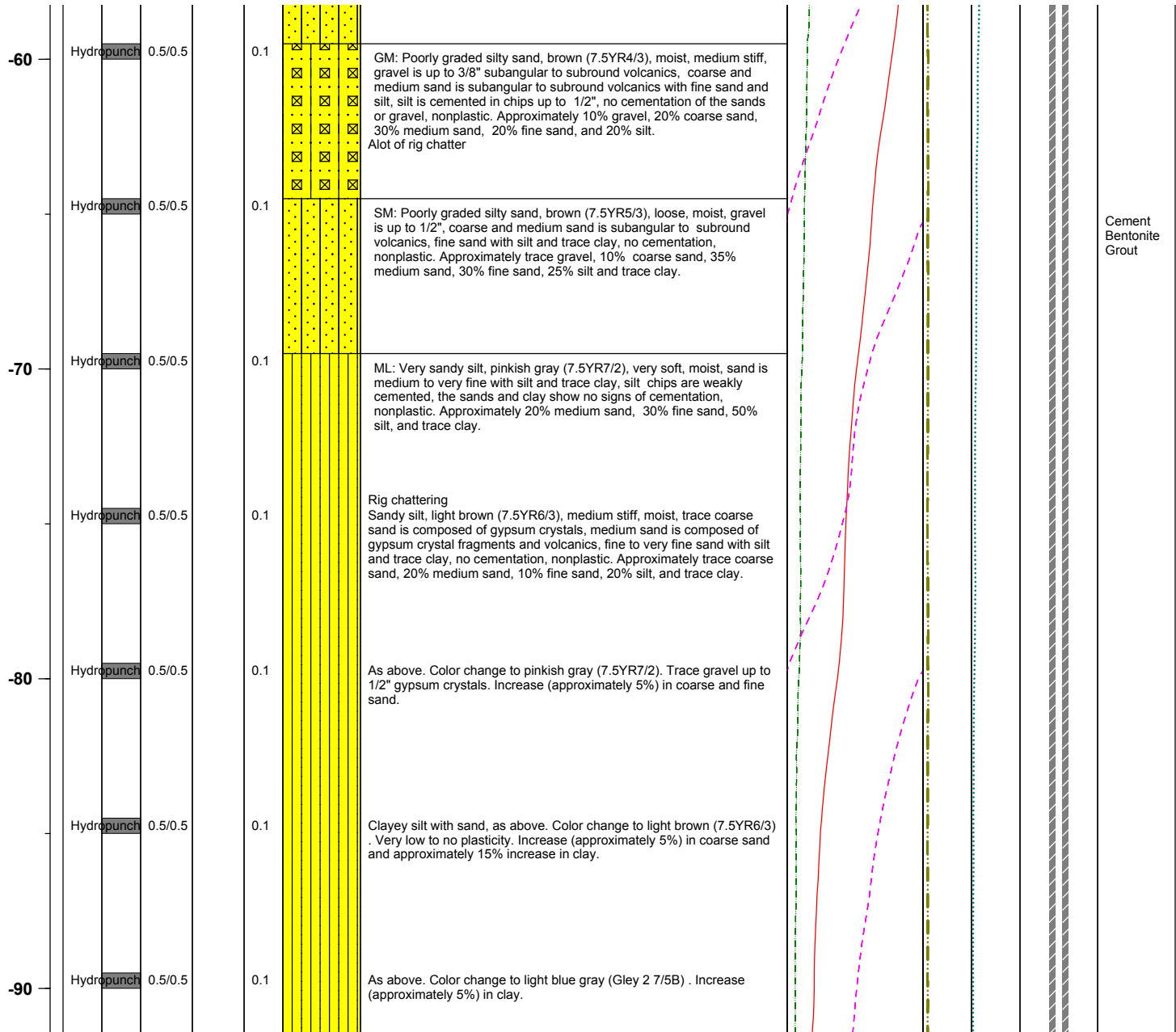
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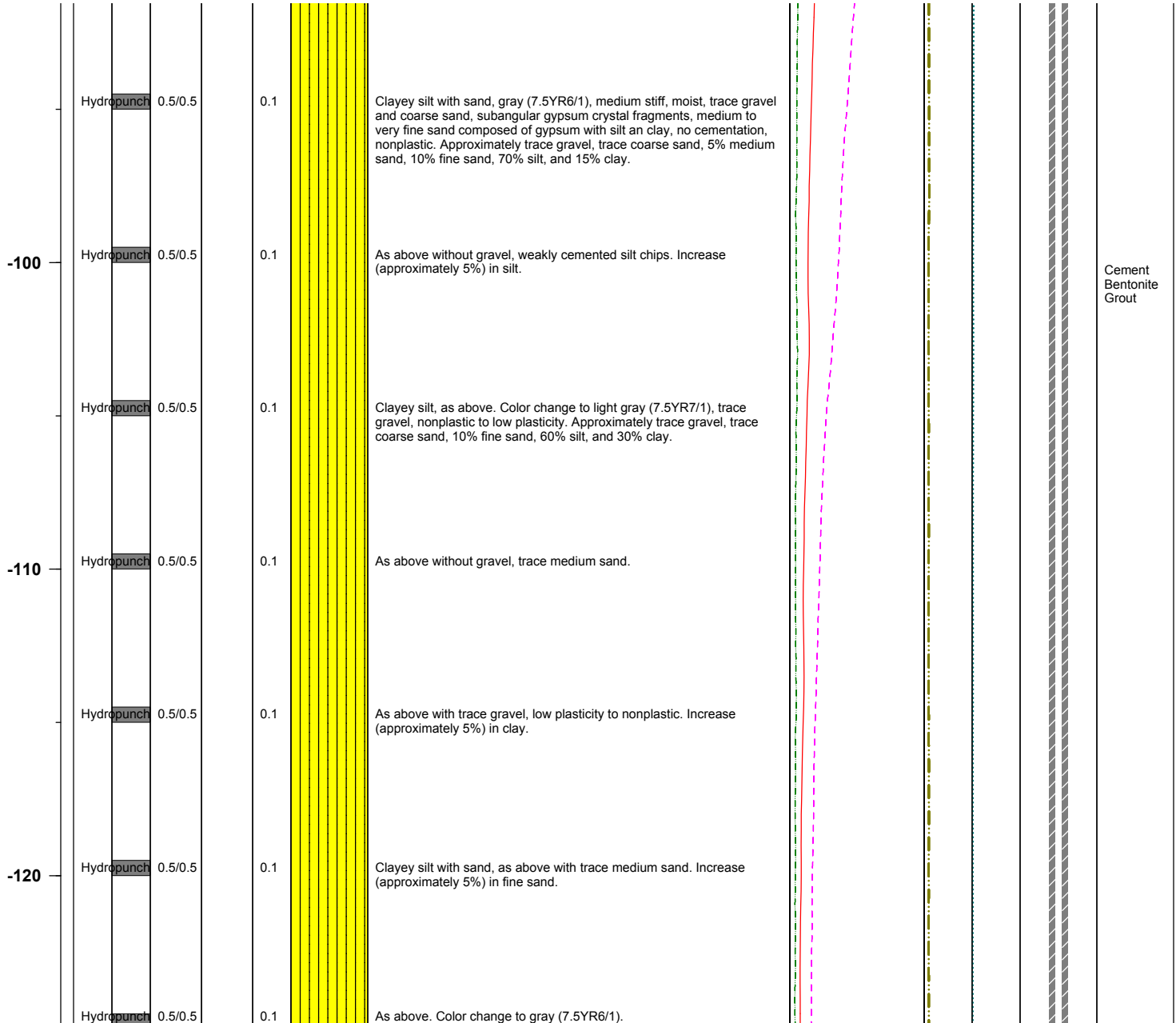
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-130	Hydropunch	0.5/0.5	0.1	As above with approximately 5% increase in medium sand.									
	Hydropunch	0.5/0.5	0.1	As above. Color change to brown (7.5YR5/2) . Increase (approximately 15%) in silt.									
-140	Hydropunch	0.5/0.5	0.1	As above. Color change pinkish gray (7.5YR6/2). Increase (approximately 5%) in clay.									
	Hydropunch	0.5/0.5	0.1	Silt with clay pinkish gray (7.5YR6/2), soft moist, trace coarse and medium sand composed of gypsum crystal fragments, fine to very fine sand with silt and clay, no cementation, nonplastic. Approximately trace coarse sand, trace medium sand, 10% fine sand, 80% silt, and 10% clay.									
-150	Hydropunch	0.5/0.5	0.1	Silt with sand and clay, bluish gray (Gley 2 6/10B), soft moist, gravel is subangular gypsum crystal fragments up to 1/2" and subround to round siltstone pebbles up to 3/8" , fine to very fine sand with silt and clay, no cementation, nonplastic. Approximately 10% gravel, 15% fine sand, 70% silt, and 5% clay.									
	Hydropunch	0.5/0.5	0.1	As above. Color change to light gray (7.5YR7/1). Increase (approximately 5%) in silt.									

Cement
Bentonite
Grout

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-160	Hydropunch	0.5/0.5	0.1				As above. Increase (approximately 5%) in fine sand.					
	Hydropunch	0.5/0.5	0.1				Silt with sand and clay, light bluish gray (Gley 2 7/5B), soft, moist, medium to very fine sand with silt and clay, no cementation, nonplastic. Approximately 5% medium sand, 15% fine sand, 75% silt, and 5% clay.					Cement Bentonite Grout
-170	Hydropunch	0.5/0.5	0.1				Very sandy silt with clay, pinkish gray (7.5YR6/2), soft, moist, gravel and coarse sand is composed of gypsum crystal fragments and subround to round siltstone, medium to very fine sand with silt and clay, no cementation, nonplastic. Approximately 10% gravel, 5% coarse sand, 10% medium sand, 15% fine sand, 55% silt, and 5% clay.					
	Hydropunch	0.5/0.5	0.1				As above, medium stiff, weakly cemented silt chips. Decrease (approximately 5%) in coarse and medium sand.					
-180	Hydropunch	0.5/0.5	0.1				Silt with clay and sand, as above. Increase (approximately 10%) in silt.					
	Hydropunch	0.5/0.5	0.1				Clayey silt, brown (7.5YR5/3), medium stiff, moist, gravel is composed of gypsum crystal fragments and subround to round siltstone pebbles, fine to very fine sand with silt and clay, no cementation, low plasticity. Approximately 5% gravel, 5% fine sand, 60% silt, and 30% clay.					
-190	Hydropunch	0.5/0.5	0.1				Sandy silt with clay, as above. Soft, nonplastic. Increase (approximately 25%) in fine sand and 10% increase in medium sand.					

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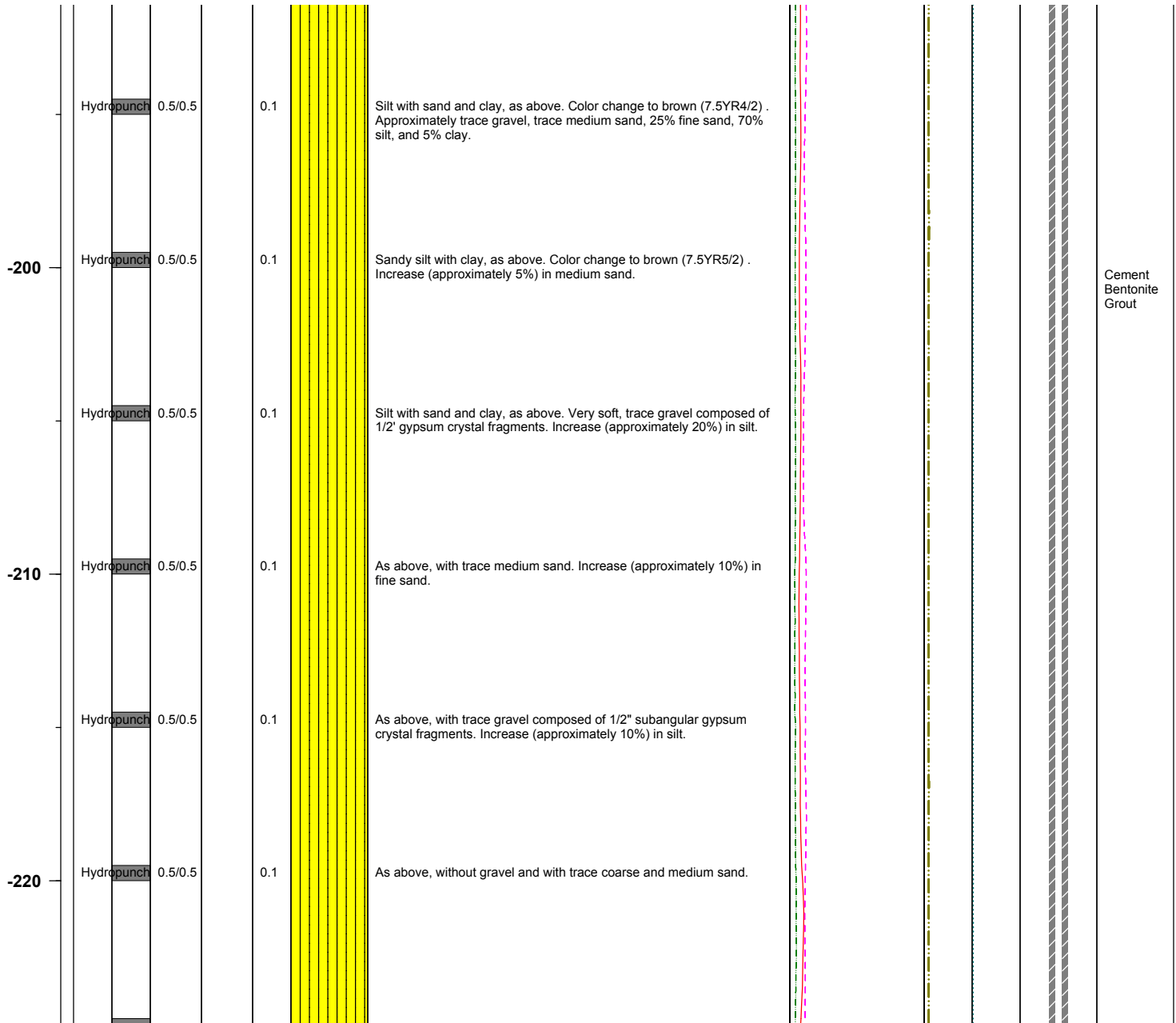
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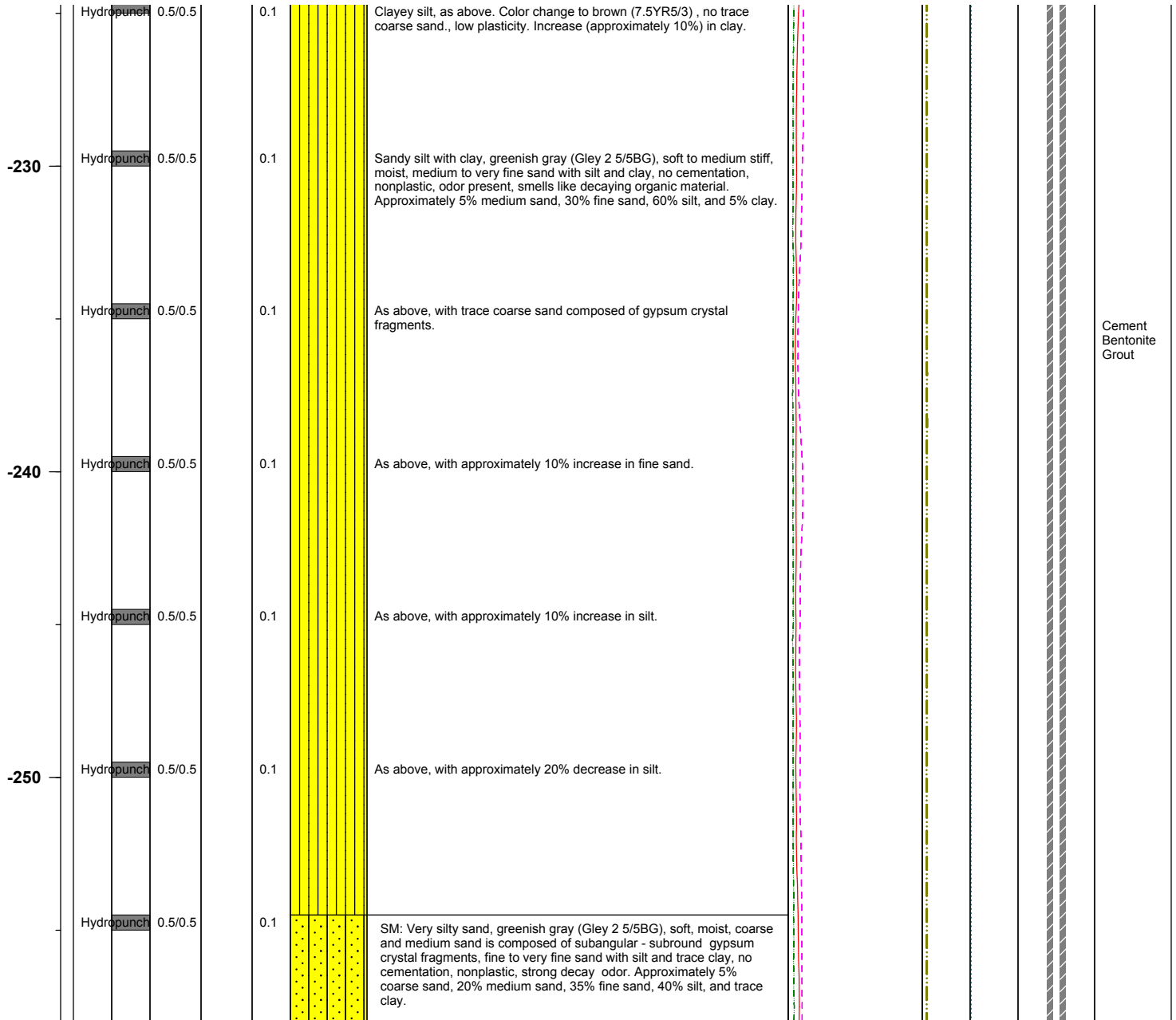
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Basic Remediation
COMPANY

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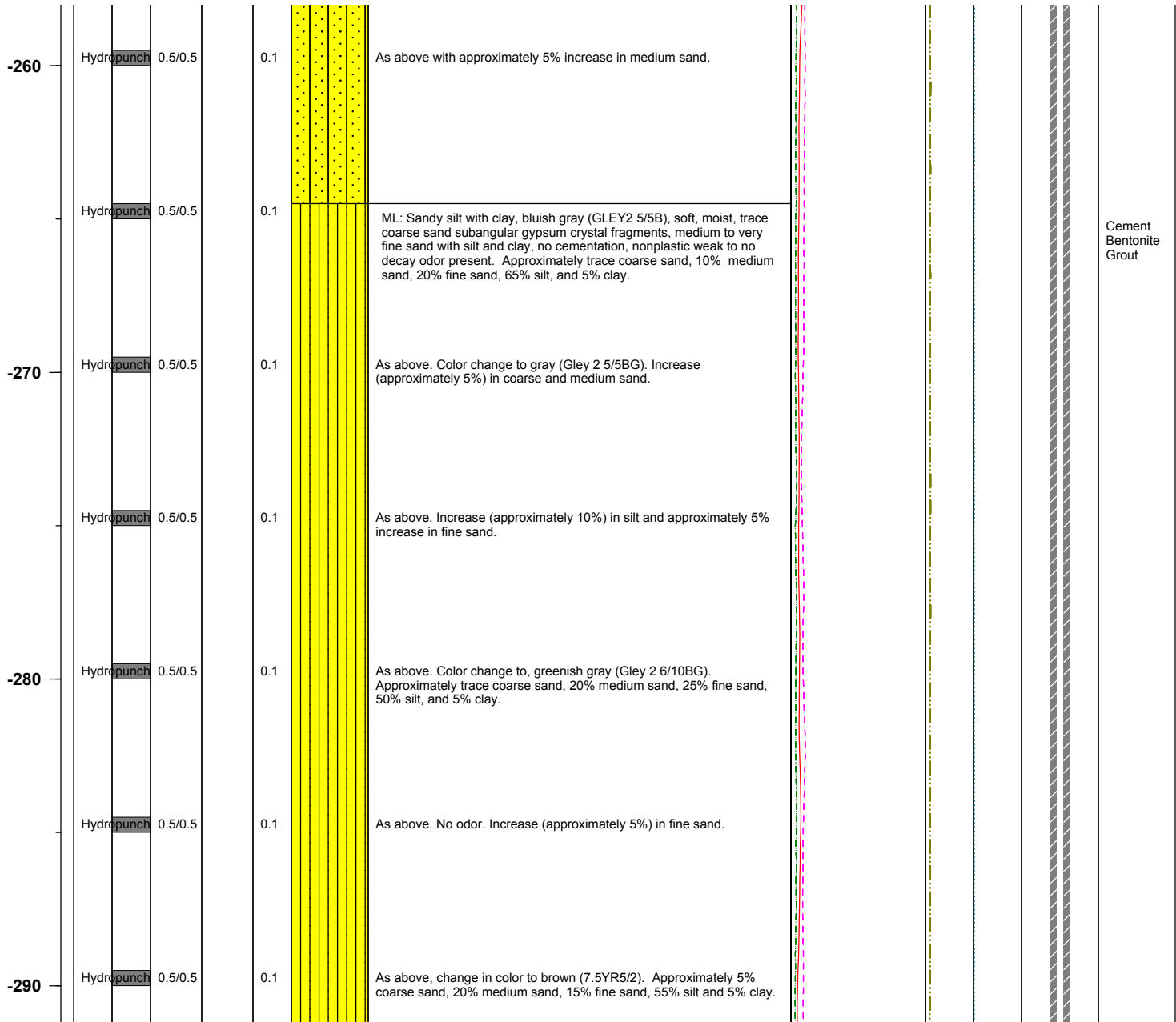
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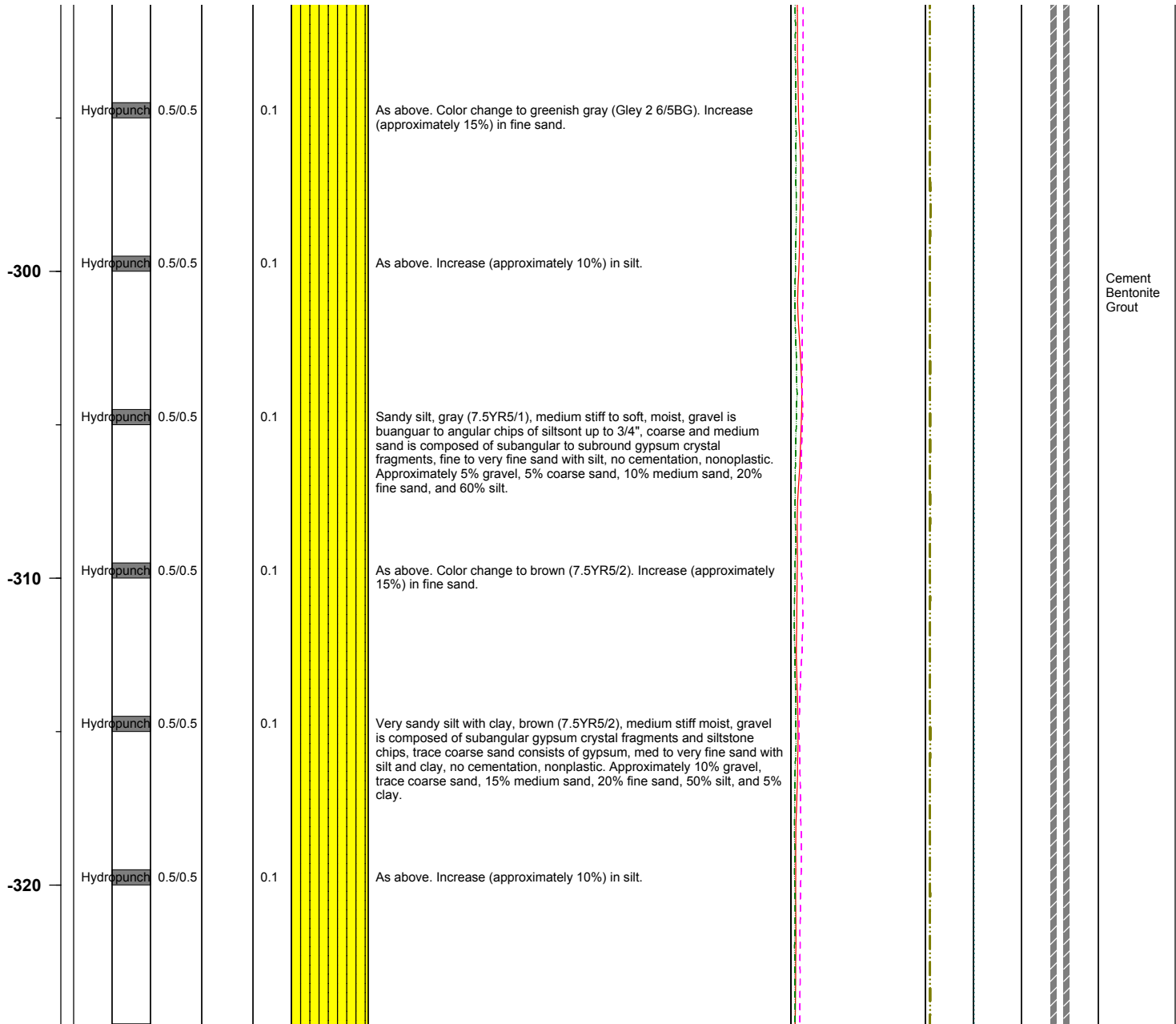
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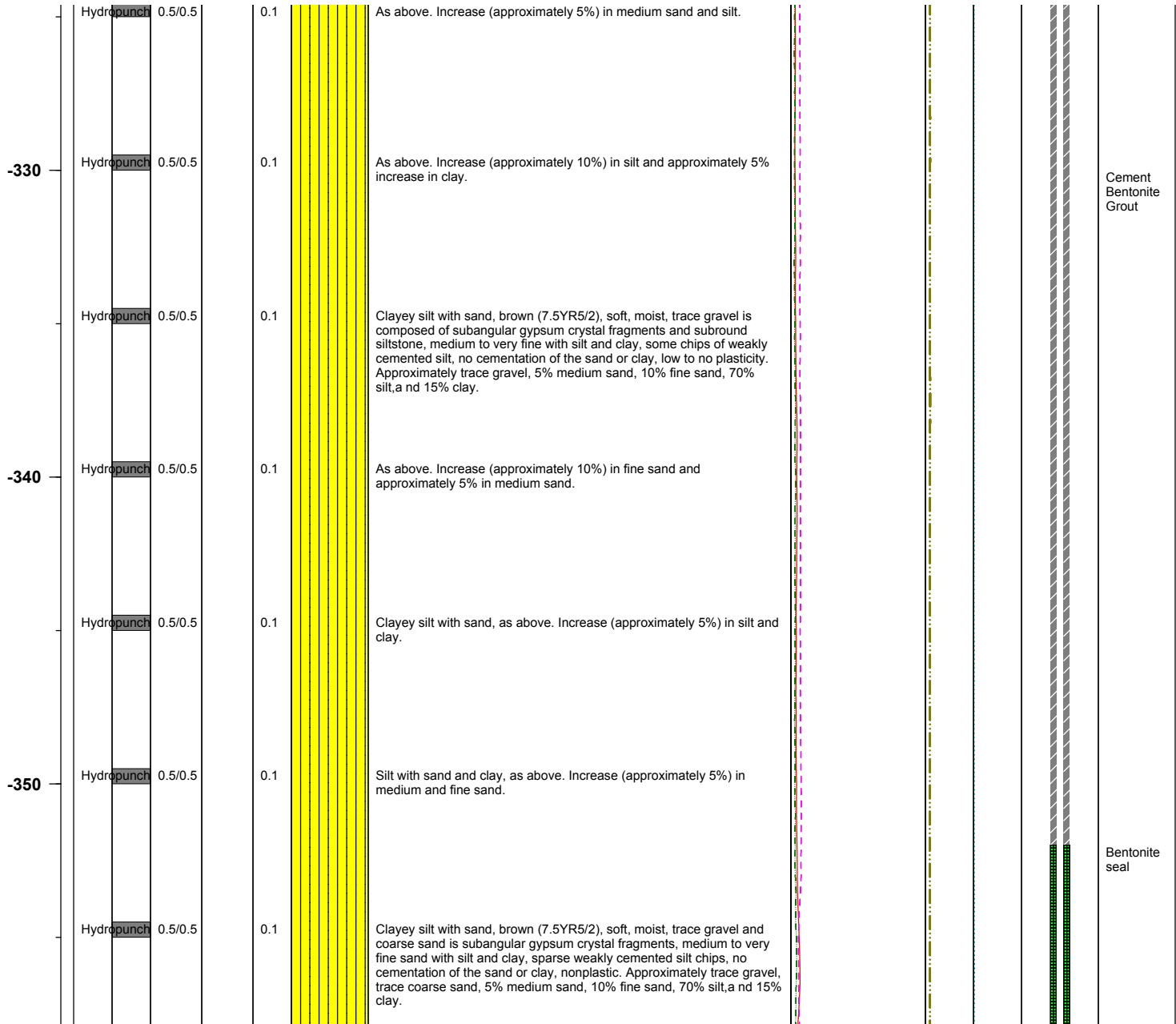
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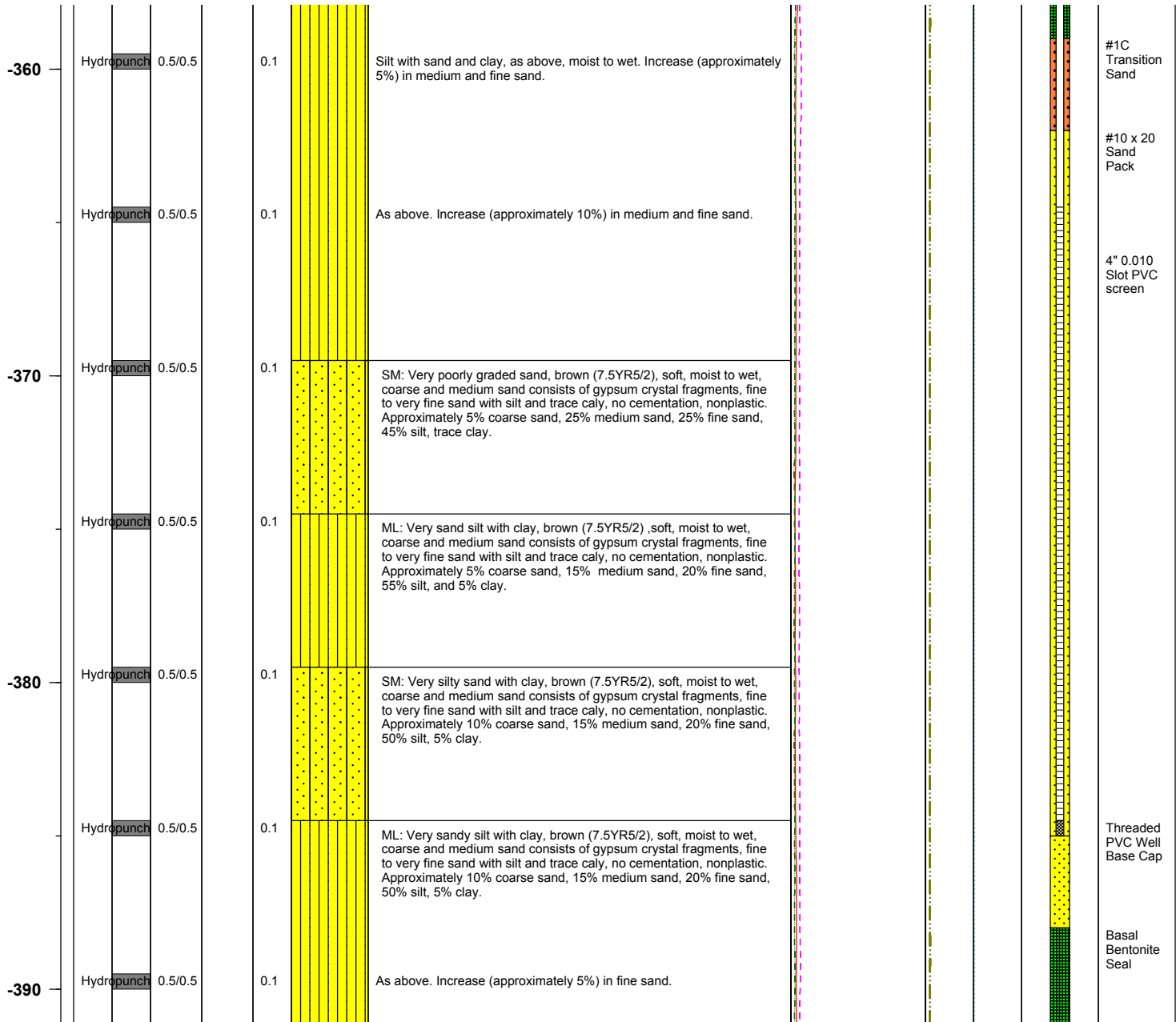
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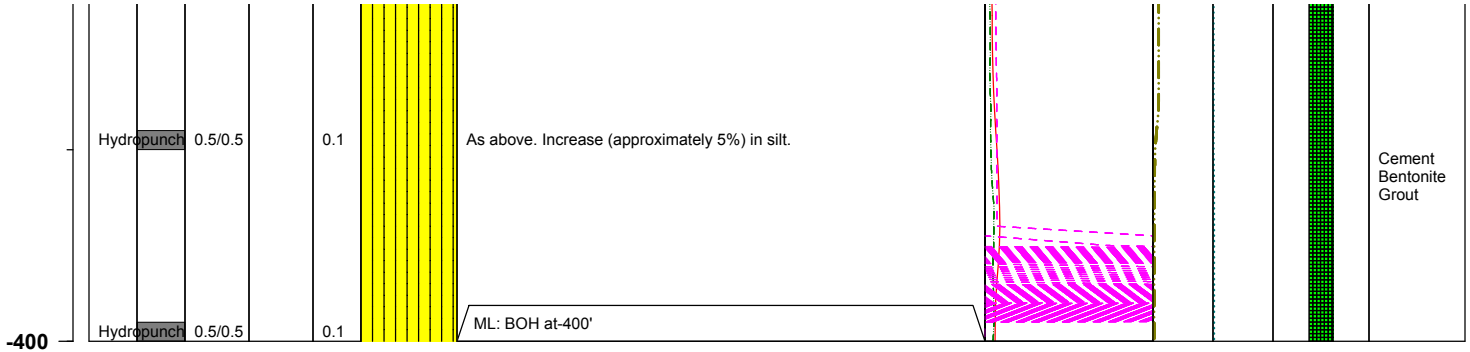
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