

*Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes by Thomas M. Hanna NGWA Press

TWP 95-15

63.5/34.8

25242

BORING AND WELL CONSTRUCTION LOG**WELL R-47**

Elevation Ground: 91.6 ft Elevation TOC: 92.65 ft Total BH Depth: 63.5 ft Total Well Depth: 63 ft						CLIENT: Tesoro Alaska Petr. Co. PROJECT SITE: Refinery PROJECT NO.: 01-19.10 AREA: PIRM GEOLOGIST: C. Sullivan	DRILLER: Hughes Drilling DRILLING METHOD: Hollow-stem auger SAMPLING METHOD: 2-in split spoon START DATE: 2/26/98 END DATE: 2/27/98
Well Materials	DEPTH (FEET)	SAMPLE ID	BLOW COUNT (PER 6 INCHES)	SAMPLE INTERVAL	PROFID READINGS (ft)	USCS	
Concrete Pad	0					sm	Medium brown, fine to coarse SAND with 10-15% silt and 10-15% fine gravel, frozen to 1.5 feet, moist below 1.5 feet, no odor.
Bentonite Grout							
Riser Pipe 6-inch diameter schedule 40 PVC	5						Light brown SILT (diatomaceous earth), moist to very moist.
	10					ml	Medium brown, SILT with 10-15% fine to medium sand, wet to saturated, organic swampy odor.
Formation (sluff)	15						@ 16 - 16.5 feet: Drilling conditions indicate sand and gravel.
Bentonite Seal 3/8-inch chips	20						
Sand Pack 10/20 Colorado Silica Sand	25						
Well Screen 35 feet; 6-inch diameter; 0.030-inch slot; wire-wrapped stainless steel	30					sw/gw	
	35						
	40						

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BORING AND WELL CONSTRUCTION LOG

WELL R-47

Well Materials		DEPTH (FEET)	SAMPLE ID	BLOW COUNT (FEET & INCHES)	SAMPLE INTERVAL	PICTED READINGS (psi)	USCS	CLIENT: Tesoro Alaska	DRILLER: Hughes Drilling
								PROJECT SITE: Kenai Refinery	DRILLING METHOD: Hollow-stem auger
								PROJECT NO.: 01-19.10	SAMPLING METHOD: Grab and 2-in split spoon
								AREA: PIRM	START DATE: 2/26/98
								GEOLOGIST: C. Sullivan	END DATE: 2/27/98
Sand Pack 10/20 Colorado Silica Sand Well Screen 35 feet; 6- Inch diameter; 0.030-inch slot; schedult 40 PVC		40						Medium dense, medium gray, fine to coarse GRAVEL with 35-45% medium to coarse sand, saturated, weak hydrocarbon odor.	
		45		4 13 15		52	gw		
				9 19 29			sw	Medium stiff, medium gray SILT, laminated on 0.25 to 0.5 mm scale, pl+.	
								Medium dense, medium gray, medium to coarse SAND with 15-20% fine gravel, saturated, weak hydrocarbon odor. @ 47 feet: 20-30% fine gravel.	
		50		9 15 10	stuff	215	gw	Medium dense, medium gray, fine to coarse GRAVEL with 35-45% medium to coarse sand, saturated, weak hydrocarbon odor. @ 52.5 feet: 40-50% medium to coarse sand.	
				7 16 4 for 2"	stuff stuff	81			
		55		8 19 21	stuff	114	sw	Dense, medium gray, medium to coarse SAND with 30-40% fine gravel, saturated, weak hydrocarbon odor.	
		60		7 19 22	stuff stuff	96	gw	Dense, medium to dark gray, fine to coarse GRAVEL with 40% medium to coarse sand, saturated, weak hydrocarbon odor. Dense, medium to dark gray, fine to medium SAND, saturated, weak hydrocarbon odor.	
							sp		
		65						Total depth = 63 feet Pilot hole drilled with 4.15-inch ID augers to 63 feet. Reamed with 8.25-inch augers to 63.5 feet.	
		70							
		75							
		80							

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As-Built Diagram

Well R-47

Well Location: PIRM Ground Elevation: 91.6 TOC Elevation: 92.65 Northing: 9110.75 Easting: 7766.55	Date Installed: 2/26 - 2/27/98 Project Number: 01-19.10 Geologist: C. Sullivan Drilling Company: Hughes Driller: Pat Kelly	Depth Drilled: 63.5	TD After Development: 62.64 (feet, TOC)
		Drilling Rig: CME-75	Drilling Method: HSA, 8.25" x 12"
		Hole Diameter: 12"	Soil Sampler Type: Splitspoon
		Number of Soil Samples: 6	Elevation Datum: MLLW
		Depth to Water at Time of Drilling (feet, bgs): 34.8	Checked by: _____



