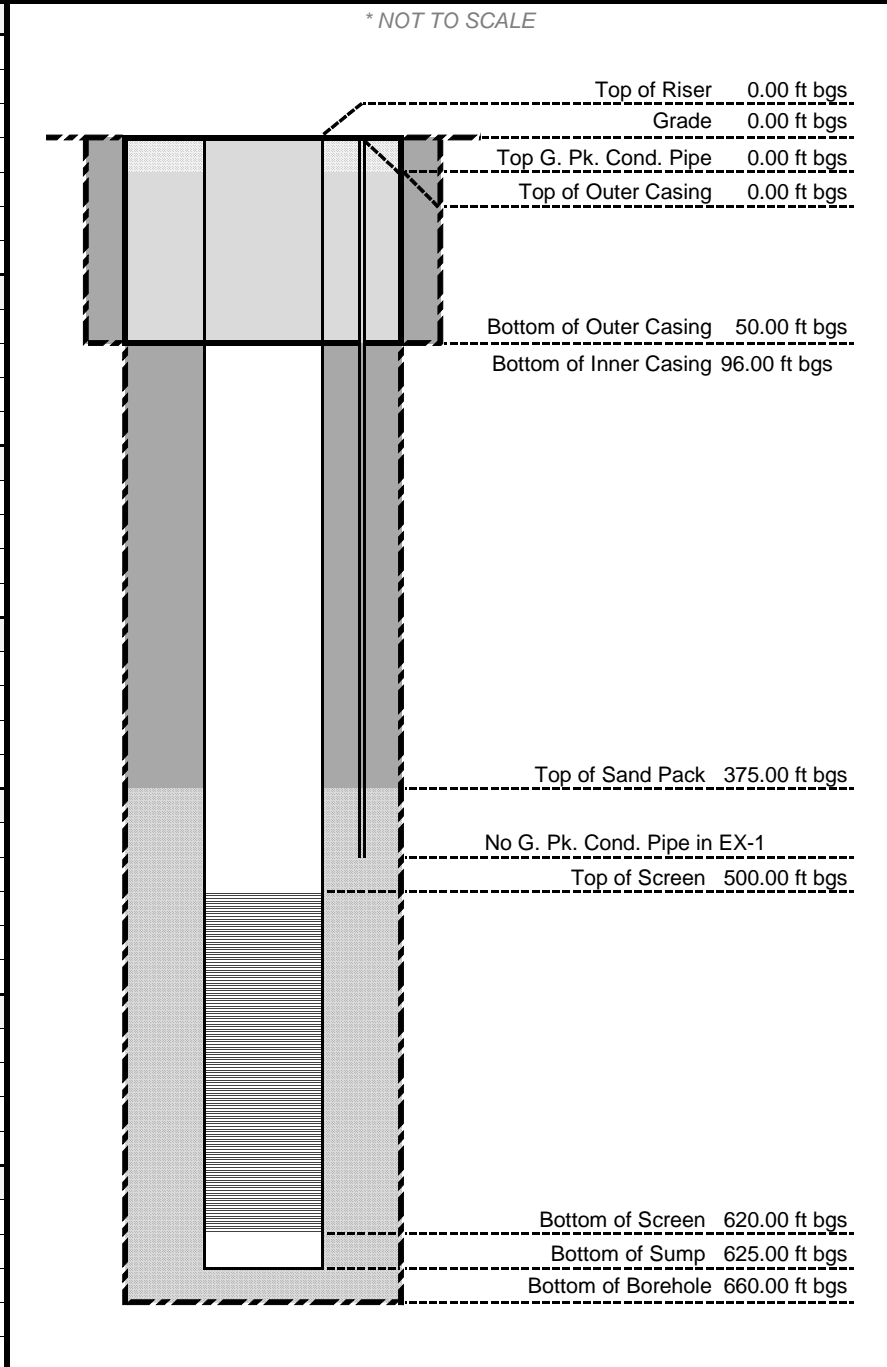




Well ID:	DECEX-01	Project:	WA#32 Northrop Grumman
Location:	Bethpage, NY	Client:	NYS Department of Environmental Conservation
Drilling Contractor:	Delta Well & Pump	Project Number:	10054840
Date Drilled:	4/25/2019-7/01/2019	Drilling Rig:	Dual Rotary Rig
Date Completed:	Jul 01, 2019	Drilling Method:	Reverse Rotary
Cover Type:	Manhole Cover	Development Method:	Airlift & Pump
Grade Elevation:	74.8 feet	Corresponding VPB:	DEC-VPB-7 (DEC7D1)
Borehole Depth:	660 feet	Coordinate System:	NAD 1983 (2011) StatePlane NY LI FIPS 3104
Borehole Dia.:	30-24 inches	X:	1123696E
		Y:	204419N

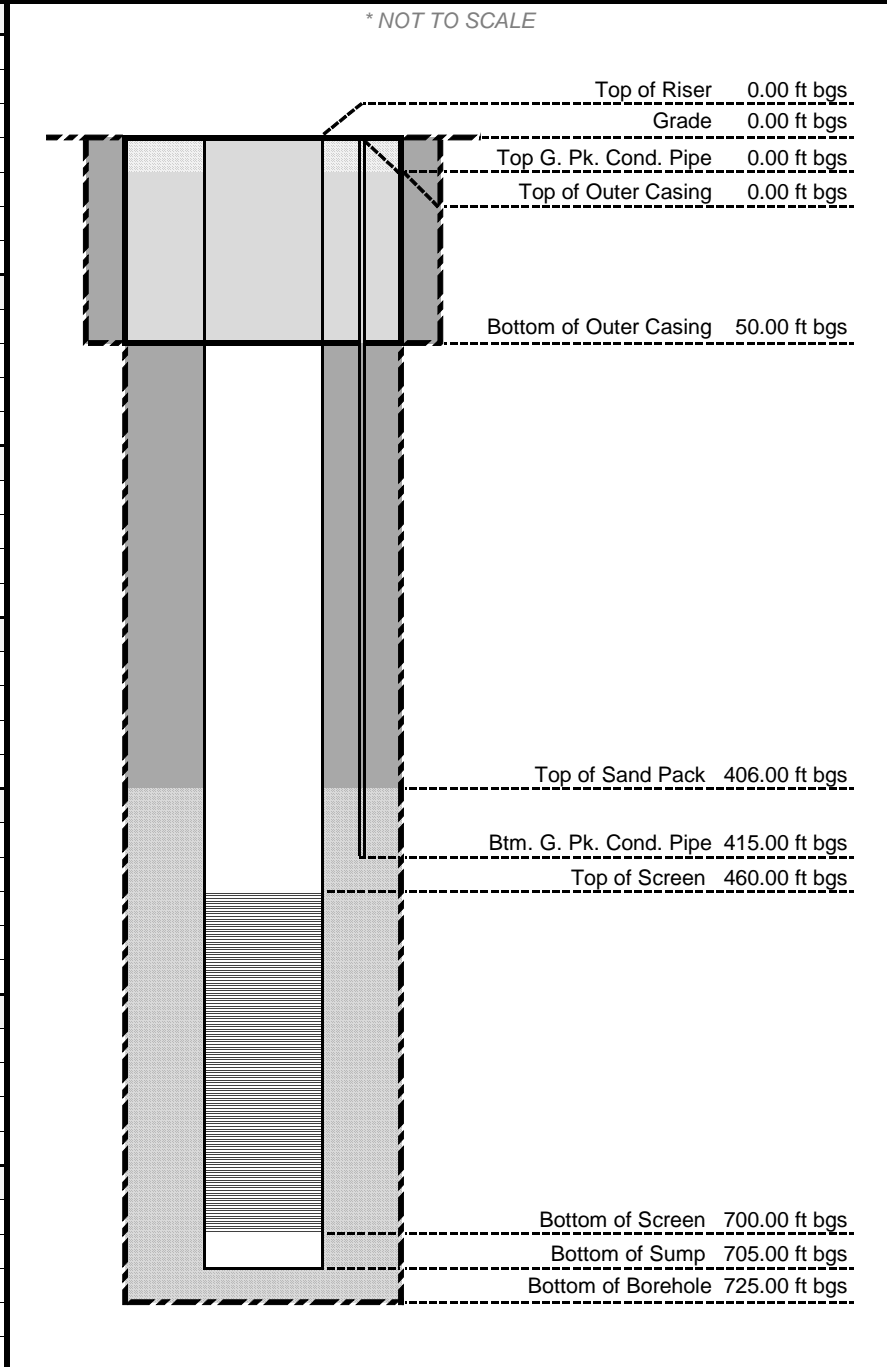
General Well Information	
Well ID:	DECEX-01
Start Date:	Apr 25, 2019
End Date:	Jul 01, 2019
Static Water Level:	--
SWL Date:	--
Measuring Point:	Top of Casing
Well Depth (ft):	625
Riser Pipe(s)	
Interval (ft):	0-375
Material:	Black Steel
Diameter (in):	14
Joint Type:	Welded
Surface Casing/Inner Casing	
Interval (ft):	50/96
Material:	Black Steel
Diameter (in):	24/20
Joint Type:	Welded
Screen(s)	
Interval (ft):	500-620
Diameter (in):	14
Material:	Stainless steel
Slot Size:	30
Filter Pack(s)	
Interval (ft.):	375-625
Sand:	--
Gravel:	№ 1 size
Natural:	--
Amount:	15 cubic yards
Sump(s)	
Interval (ft):	620-625
Material:	Stainless steel
Diameter (in):	14
Joint Type:	Welded
Seal(s) / QTY(s)	
Grout:	0-375
Concrete Mix:	--
Bentonite Slurry:	--
Bentonite Pellets:	--
Sand:	0-30





Well ID:	DECEX-02	Project:	WA#32 Northrop Grumman
Location:	Bethpage, NY	Client:	NYS Department of Environmental Conservation
Drilling Contractor:	Delta Well & Pump	Project Number:	10054840
Date Drilled:	9/4/2018-9/24/2018	Drilling Rig:	Dual Rotary Rig
Date Completed:	Oct 03, 2018	Drilling Method:	Reverse Rotary
Cover Type:	Manhole Cover	Development Method:	Airlift & Pump
Grade Elevation:	85.9 feet	Corresponding VPB:	DEC-VPB-6 (DEC6D1)
Borehole Depth:	725 feet	Coordinate System:	NAD 1983 (2011) StatePlane NY LI FIPS 3104
Borehole Dia.:	30-24 inches	X:	1124837E
		Y:	204451N

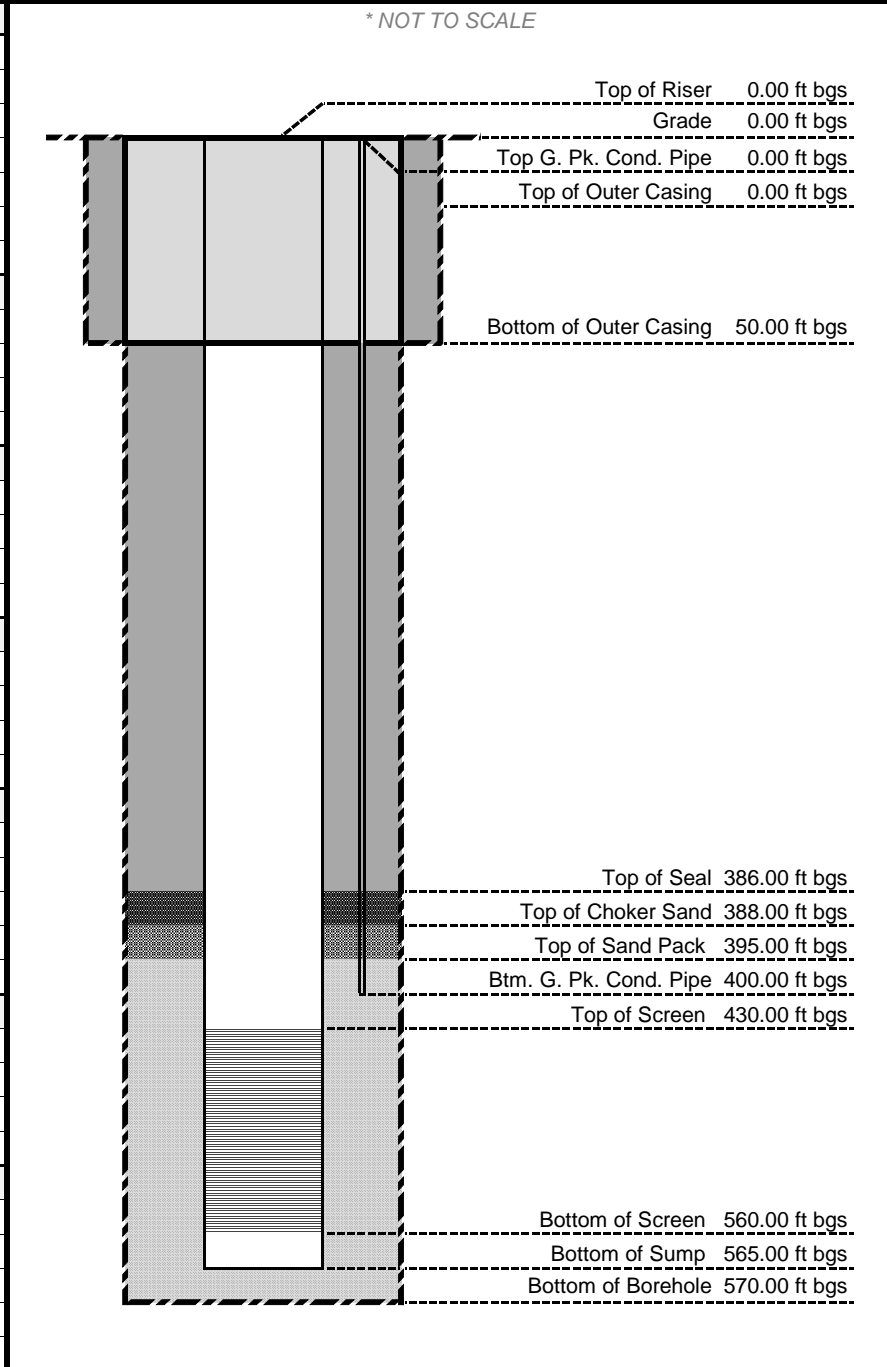
General Well Information	
Well ID:	DECEX-02
Start Date:	Sep 04, 2018
End Date:	Oct 03, 2018
Static Water Level:	--
SWL Date:	--
Measuring Point:	Top of Casing
Well Depth (ft):	705
Riser Pipe(s)	
Interval (ft):	0-460
Material:	Black Steel
Diameter (in):	14
Joint Type:	Welded
Surface Casing	
Interval (ft):	50
Material:	Black Steel
Diameter (in):	24
Joint Type:	Welded
Screen(s)	
Interval (ft):	460-700
Diameter (in):	14
Material:	Stainless steel
Slot Size:	30
Filter Pack(s)	
Interval (ft.):	406-725
Sand:	--
Gravel:	№ 1 size
Natural:	--
Amount:	23 cubic yards
Sump(s)	
Interval (ft):	700-705
Material:	Stainless steel
Diameter (in):	14
Joint Type:	Welded
Seal(s) / QTY(s)	
Grout:	30-406
Concrete Mix:	--
Bentonite Slurry:	--
Bentonite Pellets:	--
Sand:	0-30





Well ID:	DECEX-06	Project:	WA#32 Northrop Grumman
Location:	Bethpage, NY	Client:	NYS Department of Environmental Conservation
Drilling Contractor:	Delta Well & Pump	Project Number:	10054840
Date Drilled:	6/4/2018-6/9/2018	Drilling Rig:	Dual Rotary Rig
Date Completed:	Jun 16, 2018	Drilling Method:	Reverse Rotary
Cover Type:	Manhole Cover	Development Method:	Airlift & Pump
Grade Elevation:	101.8 feet	Corresponding VPB:	DEC-VPB-4 (DEC4D1)
Borehole Depth:	570 feet	Coordinate System:	NAD 1983 (2011) StatePlane NY LI FIPS 3104
Borehole Dia.:	30-23 inches	X:	1127968E
		Y:	210171N

General Well Information	
Well ID:	DECEX-06
Start Date:	Jun 04, 2018
End Date:	Jun 16, 2018
Static Water Level:	--
SWL Date:	--
Measuring Point:	Top of Casing
Well Depth (ft):	565
Riser Pipe	
Interval (ft bgs):	0-430
Material:	Black Steel
Diameter (in):	14
Joint Type:	Welded
Surface Casing	
Interval (ft):	0-50
Material:	Black Steel
Diameter (in):	24
Joint Type:	Welded
Screen(s)	
Interval (ft bgs):	430-560
Diameter (in):	14
Material:	Stainless Steel
Slot Size:	30
Filter Pack(s)	
Interval (ft bgs):	388-570
Sand:	--
Gravel:	№ 1 size
Natural:	--
Amount:	--
Sump(s)	
Interval (ft):	5
Material:	Stainless Steel
Diameter (in):	14
Joint Type:	Welded
Seal(s) / QTY(s)	
Grout (ft bgs):	0-386
Conc. Mix (ft bgs):	--
Ben. Slurry (ft bgs):	--
Ben. Pellets (ft bgs):	386-388
Other (ft bgs):	--





Project: WA#32 Northrop Grumman
 Subject: Extraction Well Construction

Well ID:	DECEX-08	Project:	WA#32 Northrop Grumman
Location:	Bethpage, NY	Client:	NYSDEC
Drilling Contractor:	Delta Well & Pump	Project Number:	10054840
Date Drilled:	11/12/2018-11/13/2018	Drilling Rig:	Dual Rotary Rig
Date Completed:	Nov 16, 2018	Drilling Method:	Reverse Rotary
Cover Type:	Manhole Cover	Development Method:	Air lift & Surge
Grade Elevation:	114.2 feet	Corresponding VPB:	DEC-VPB-3 (DEC3D1)
Borehole Depth:	230 feet	Coordinate System:	NAD 1983 (2011) StatePlane NY LI FIPS 3104
Borehole Dia.:	30-23 inches	X:	1127369E
		Y:	212469N

General Well Information	
Well ID:	DECEX-08
Start Date:	Nov 12, 2018
End Date:	Nov 16, 2018
Static Water Level:	--
SWL Date:	--
Measuring Point:	Top of Casing
Well Depth (ft):	225
Riser Pipe(s)	
Interval (ft):	0-170
Material:	Black steel
Diameter (in):	14
Joint Type:	Welded
Surface Casing	
Interval (ft):	50
Material:	Black Steel
Diameter (in):	24
Joint Type:	Welded
Screen(s)	
Interval (ft):	170-220
Diameter (in):	14-inch
Material:	Stainless steel
Slot Size:	30
Filter Pack(s)	
Interval (ft):	120-230
Sand:	--
Gravel:	No 1 size
Natural:	--
Amount:	--
Sump(s)	
Interval (ft):	220-225
Material:	Stainless steel
Diameter (in):	14
Joint Type:	Welded
Seal(s) / QTY(s)	
Grout:	0-120
Concrete Mix:	--
Bentonite Slurry:	--
Bentonite Pellets:	--
Other:	--

