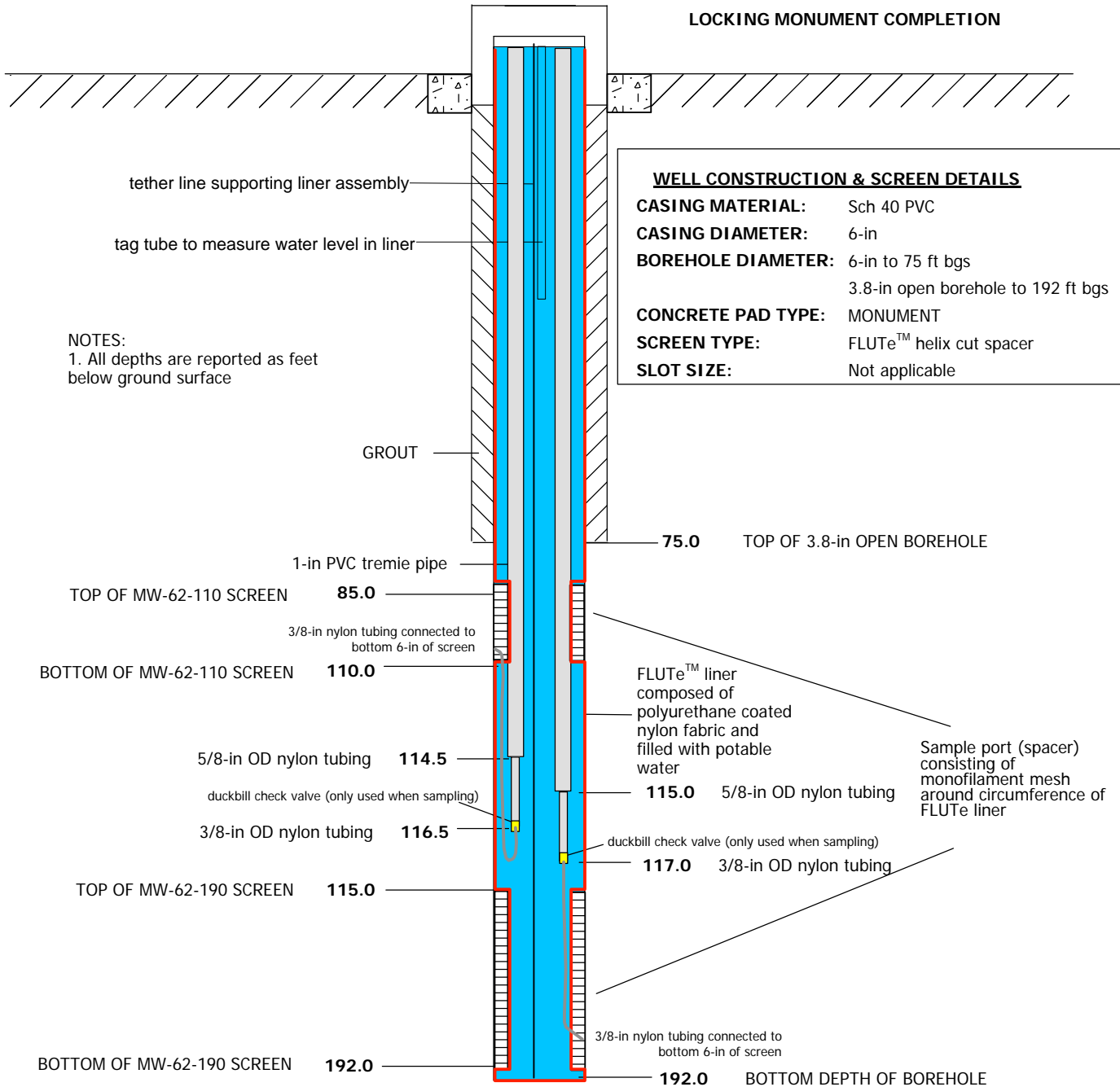
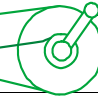


# WELL COMPLETION DIAGRAM

<b>PROJECT NO:</b> 382653.FP.04.FW	<b>PROJECT:</b> PG&E Topock - ERGI	<b>WELL NO's:</b> <i>MW-62-110</i> <i>MW-62-190</i>
<b>LOCATION:</b> Site E		
<b>DRILLING CONTRACTOR:</b> Boart Longyear (D. Roberts)	<b>DRILLING START:</b> 3/14/2009	
<b>DRILLING METHOD:</b> Rotosonic	<b>DRILLING END:</b> 3/18/2009	
<b>LOGGER:</b> A. Brewster (Northstar) and I. Wood	<b>WELL COMPLETION DATE:</b> 7/7/2009	
<b>GROUND SURFACE ELEVATION (NAVD 88):</b> 504.05 ft AMSL	<b>GENERAL REMARKS:</b> 4-inch diameter, 2-port Guelph Water FLUTE™ multi-level system with helical screens installed into open 3.8-inch HQ borehole	
<b>NORTHING (CCS NAD 83 Z 5):</b> 2101068.16		



WELL DIAGRAM IS NOT TO SCALE



**As-Built Information**

**Job #** 968-2

**General:**

**Job Description:** 192' 4"dia. 2 Port Guelph Water FLUTE

**Customer:** CH2M Hill

**Location:** 155 Grand Ave. Suite 1000 Oakland, CA 94612

**Well Designation:** MW-62BR

**Hole Depth:** 192'

**Water Table:** 47'

**Drilling Method:** N/A

**Casing Information:** N/A

**Installation Method:** Water eversion

**Bubbler / Tag:** 47'

**Liner:**

**Material:** 210d Orange d/c 2 sleeve

**Diameter:** 4"

**Material Above Casing:** 3'

**Uneverted Material:** 4'

**Rough Fabrication Legnth:** 202'

**Termination:** End Seal Knot

**Knot Diameter Allowance:** 2"

**Markings on Liner:** Ink stamp indicating FLUTE TOC & FLUTE Job# 968-2

**Spacer Design:** 2 Material helix cut spacer Design (orange mesh) and Mylar

Spacer #	Spacer Bottom [ft]	Spacer Top [ft]
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1	110'	85'
2	192'	155'

<b>Tubing &amp; Ports:</b>							
<b>Tubing In Bundle:</b>		NYLON					
<b>Tubing In Sleeves:</b>		NYLON					
<b>Bubbler Details:</b>		1/4 NYLON					
<b>Port Design:</b>		Superthane feed thru					
<b>Port Locations:</b>		6" @ bottom of spacer					
<b>Vent Design:</b>		1/4 Superthane feed thru w/ 3/8 tygon tubing connected to duct					
<b>Vent Location:</b>		202'					
<b>Pump Assembly:</b>							
Port #:	Transducer Serial #:	Transducer Pressure Rating [psi]:	Diaphragm Depth [ft. btoc]	Cable Serial #:	Cable Length [ft.]	5/8 x 3/8	3/8 x 1/4
1						114'.5"	116'.5"
2						115'	117'

<b>Other Info:</b>							
<b>Transducer Type:</b>	N/A						
<b>Kellum Design:</b>	1" Friction Kellum wrap Below Unions 1" Webbing with blue hig						
<b>Kellum Locations:</b>	1st kellum @ 18' btoc: others every 40 there after						
<b>Tether:</b>	1/4"						
<b>Marking on Tubing:</b>	Port #'s and color code						
<b>Marking on Cables:</b>	Port #'S						
<b>Bundle Sheating:</b>	White 2.25" starting @ 1 116'						
<b>Marks on Bundle:</b>	E.P. markings @ every 40'						
<b>Pump Tube:</b>	202'						
<b>Reel / Packaging:</b>	SF FLUTE						
<b>Casing Adapter Info:</b>	ABQ FLUTE						
<b>Wellhead Info:</b>	ABQ FLUTE						
<b>Vent Tube:</b>	n/a						
<b>Clamps:</b>	ABQ FLUTE						
<b>Shipped Via:</b>	ABQ FLUTE						
<b>Other Notes:</b>	Port # 1 Protrudes @ 114'.5" Top Of Tube @ 111" W/ red cap:						
	Port # 2 Protrudes @ 115' Top Of Tube @ 113' W/ red cap:						























