

LEGEND

- Portion of borehole exposed during sample collection
- Portion of borehole sealed during sample collection

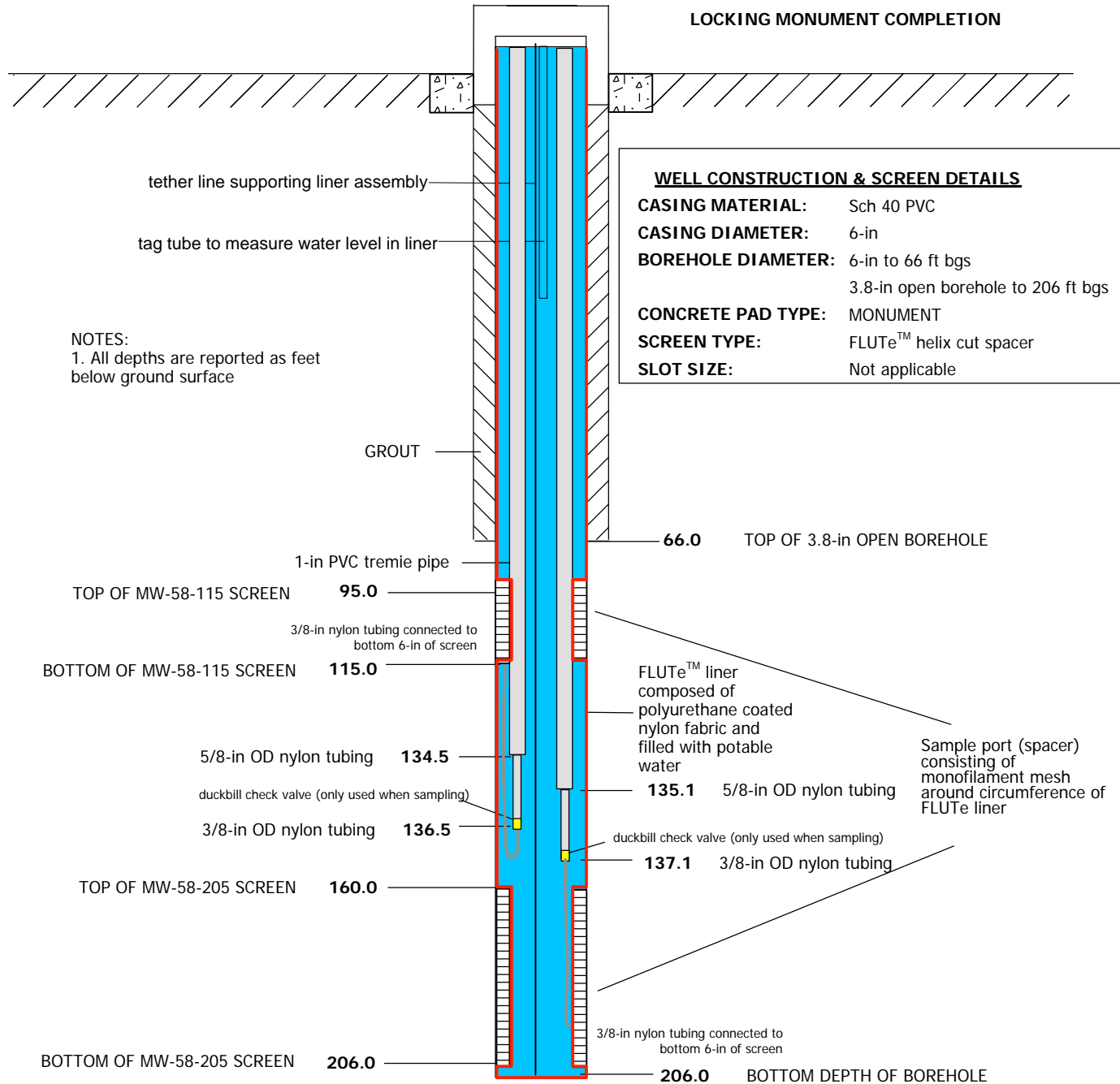
NOTES:

- Scale is approximate.
- All depths presented as feet below ground surface.

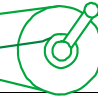
MW-58BR Sampling Configurations
 PG&E Topock Compressor Station
 Needles, California

WELL COMPLETION DIAGRAM

PROJECT NO: 382653.FP.04.FW	PROJECT: PG&E Topock - ERGI	WELL NO's: <i>MW-58-115</i> <i>MW-58-205</i>
LOCATION: Site A		
DRILLING CONTRACTOR: Boart Longyear (D. Roberts)	DRILLING START: 1/29/2009	
DRILLING METHOD: Rotosonic	DRILLING END: 2/12/2009	
LOGGER: A. Brewster (Northstar) and I. Wood	WELL COMPLETION DATE: 7/8/2009	
GROUND SURFACE ELEVATION (NAVD 88): 521.78 ft AMSL	GENERAL REMARKS: 4-inch diameter, 2-port Guelph Water FLUTE™ multi-level system with helical screens installed into open 3.8-inch HQ borehole	
NORTHING (CCS NAD 83 Z 5): 2100612.06		



WELL DIAGRAM IS NOT TO SCALE



As-Built Information

Job # 968-1

General:

Job Description: 206' 4"dia. 2 Port Guelph Water FLUTE

Customer: CH2M Hill

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

Well Designation: MW-58BR

Hole Depth: 206'

Water Table: 67'

Drilling Method: N/A

Casing Information: N/A

Installation Method: Water eversion

Bubbler / Tag: 67'

Liner:

Material: 210d Orange d/c 2 sleeve

Diameter: 4"

Material Above Casing: 3'

Uneverted Material: 4'

Rough Fabrication Legnth: 216'

Termination: End Seal Knot

Knot Diameter Allowance: 2"

Markings on Liner: Ink stamp indicating FLUTE TOC & FLUTE Job# 968-1

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

Spacer #	Spacer Bottom [ft]	Spacer Top [ft]
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1	115'	95'
2	206'	160'

Tubing & Ports:							
Tubing In Bundle:		NYLON					
Tubing In Sleeves:		NYLON					
Bubbler Details:		1/4 NYLON					
Port Design:		Superthane feed thru					
Port Locations:		6" @ bottom of spacer					
Vent Design:		1/4 Superthane feed thru w/ 3/8 tygon tubing connected to duct					
Vent Location:		210'					
Pump Assembly:							
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						134'.5"	136'.5"
2						135'	137'

Other Info:							
Transducer Type:	N/A						
Kellum Design:	1" Friction Kellum wrap Below Unions 1" Webbing with blue hig						
Kellum Locations:	1st kellum @ 18' btoc: others every 40 there after						
Tether:	1/4"						
Marking on Tubing:	Port #'s and color code						
Marking on Cables:	Port #'S						
Bundle Sheating:	White 2.25" starting @ 134'						
Marks on Bundle:	E.P. markings @ every 40'						
Pump Tube:	216'						
Reel / Packaging:	SF FLUTE						
Casing Adapter Info:	ABQ FLUTE						
Wellhead Info:	ABQ FLUTE						
Vent Tube:	n/a						
Clamps:	ABQ FLUTE						
Shipped Via:	ABQ FLUTE						
Other Notes:	Port # 1 Protrudes @ 134'.5" Top Of Tube @ 131" W/ red cap:						
	Port # 2 Protrudes @ 135' Top Of Tube @ 133' W/ red cap:						

