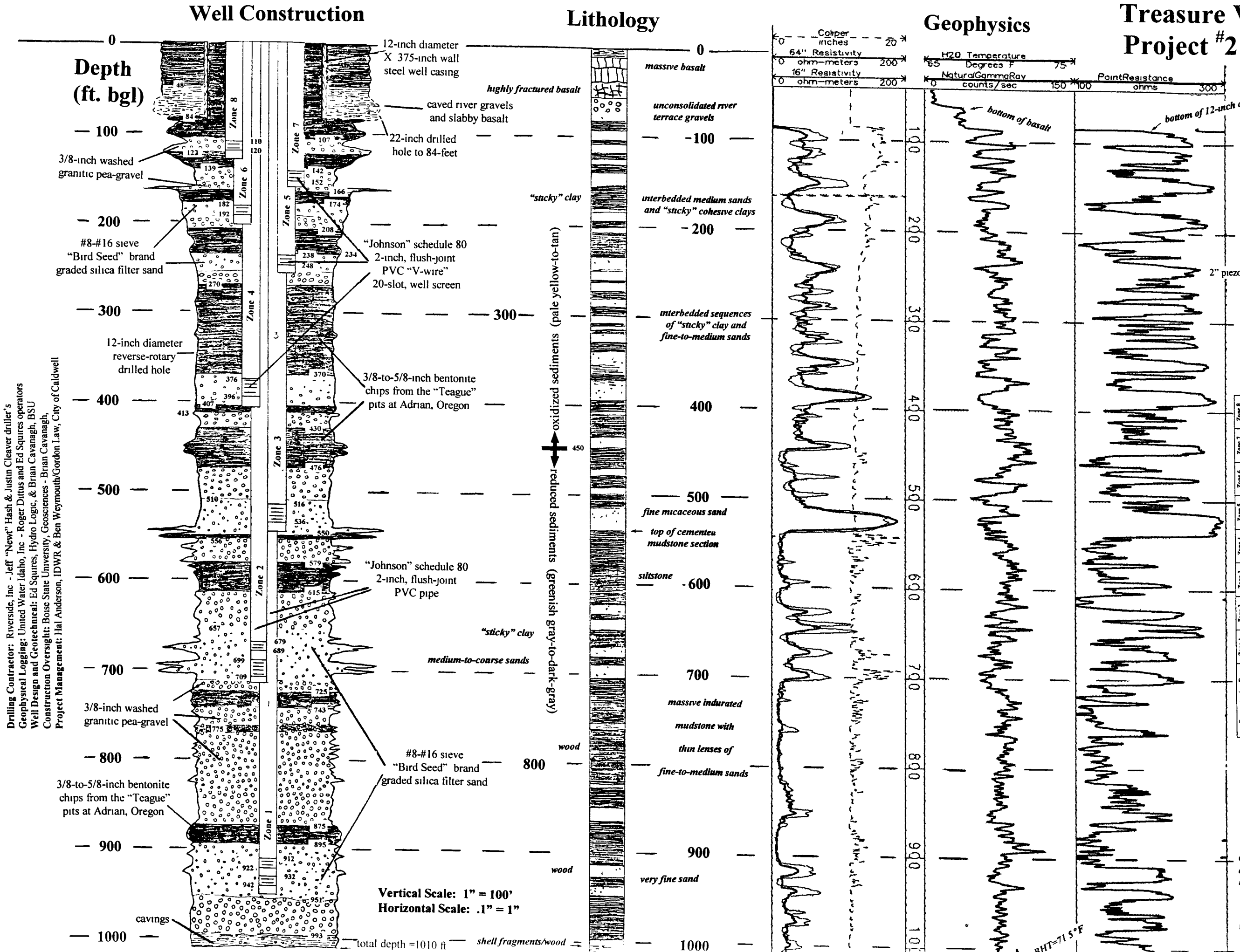
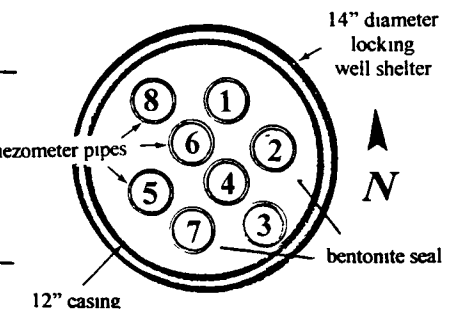
Treasure Valley Hydrologic Project #2 Monitoring Well

11/2/1999



Drilling Contractor: Riverside, Inc - Jeff "Newt" Hash & Justin Cleaver driller's
Geophysical Logging: United Water Idaho, Inc - Roger Dittus and Ed Squires operators
Well Design and Geotechnical: Ed Squires, Hydro Logic, & Brian Cavanagh, BSU
Construction Oversight: Boise State University, Geosciences - Brian Cavanagh,
Project Management: Hal Anderson, IDWR & Ben Weymouth/Gordon Law, City of Caldwell

Wellhead Configuration



Water Chemistry

Parameter (mg/l)	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Alkalinity			73.2	60.6	64.8	75.2	359.0	
Ammonia as N			0.33	0.04	0.04	0.06	0.03	
Calcium			10.4	9.84	10.7	18.9	62.3	
Chloride			2.44	2.80	3.06	9.82	13.5	
Cyromah ky			-0.25	-0.62	-0.69	-0.3	0.15	
Fluoride			0.57	0.42	0.44	0.43	0.36	
Hardness			28.9	30.2	32.9	60.9	199.0	
Iron			<0.01	<0.01	<0.01	<0.01	<0.01	
Iron (diss.)			<0.01	<0.01	<0.01	<0.01	<0.01	
Magnesium			0.73	1.38	1.52	3.32	10.5	
Manganese (diss.)			0.05	<0.01	<0.01	<0.01	<0.01	
Nitrate as N			<0.10	0.16	0.27	0.49	4.55	
Potassium			1.38	1.45	1.52	1.82	3.83	
Silica			22.3	24.6	27.0	26.8	29.7	
Sodium			23.3	17.4	19.1	20.2	90.0	
Sulfate			7.07	7.30	8.40	23.7	74.5	
Total Dissolved Solids	@167	@170	@132	@122	@126	@179	@538	@468
Total Phosphorus as P			0.030	0.037	0.056	0.031	0.037	
Field pH			8.38	8.13	8.04	8.08	7.48	8.15
Field Conductance uS		236	183	169	175	248	747	650
Field Temperature °F	232		66.0	64	61.5	62	61.5	60.8
Odor	@65		H2S	H2S	ND	ND	ND	ND
Gas (volatile)	ND	H2S	ND	ND	ND	ND	ND	ND
Water level (ft bmp)	40.62	36.38	67.27	75.25	75.16	76.06	76.36	74.45
VOC's			N/D	N/D	N/D	N/D	N/D	N/D

Geophysical logs run in an open, water filled borehole on 10/1/99

ES/Bc
11-99