TETRA TECH, INC.
4213 State St., Suite 205
Santa Barbara, CA 93101
Telephone (805) 681-3100
FAX (805) 631-3108

Project: **Vandenberg AFB IRP**
Log of Well No. **13-MW-3**

Location: **OU4 Site 13, ABRES A Launch Complex, approx. 800 ft. SSE of Bldg. 1793**

Date Started: **1/19/94**	Completed: **1/19/94**	4" PVC Blank Casing:	from **0** ft bgs to **7.5** ft bgs
Logged By: **J. Rohrer**	Checked By: **R. Horwath, RG** RG# 5925	**0.010** " Screened Casing:	from **7.5** ft bgs to **22.5** ft bgs
Drilled By: **W. Hogate, Layne Env.**		Bentonite/Cement Grout:	from **1.5** ft bgs to **2.5** ft bgs
Drilling Equipment: **CME 850, 12" HSA**		Bentonite Transition Seal:	from **2.5** ft bgs to **5.3** ft bgs
Sampling Equipment: **2" ID Split-spoon**		**2/12** Sand Filter Pack:	from **5.3** ft bgs to **23.0** ft bgs
GS Elev.: **84.6** ft above MSL	TD: **23.0 ft** bgs	TOC Elev.: **87.10** ft above MSL	

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Sample	Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
	sandy silt very dark gray (2.5Y 3/1), fine to coarse grained; fine to coarse shale fragments; roots, poorly sorted, subrounded, firm, slightly moist, alluvium.	ML		2 4 4 4	38	0/0	Start 1005. Sample V13MW3-0 sent for chemical tests.
	silty sand very dark gray (2.5Y 3/1), fine to coarse grained; minor fine to coarse shale fragments; poorly sorted, subrounded, loose, moist, alluvium.	SM					
5				4 4 4 5	31	0/0	Sample V13MW3-5 sent for chemical tests.
10				3 3 3 3	25	0/0	Sample V13MW3-10 sent for chemical tests.
	cherty shale dark brown (10YR 3/3) and white (10YR 8/1), laminated, slight iron staining between laminae, hard, highly weathered Monterey Formation.	SHALE					
15				50 80 55 50	100		Sample V13MW3-15 sent for chemical tests.
	same except grayish brown (10YR 5/2) and white (10YR 8/1) laminated, moderate iron staining, moderately weathered.			15 19	83		

19.5 ft bgs ▼ **Groundwater depth during drilling** **19.5 ft bgs** ▽ **Groundwater depth after well development on: 2/14/94**

TC Number: **7001-41** **TETRA TECH, INC.** *Continued Next Page*

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Location: **OU4 Site 13, ABRES A Launch Complex, approx. 800 ft. SSE of Bldg. 1793**

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample	Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
	cherty shale grayish brown (10YR 5/2) and white (10YR 8/1) laminae, moderate iron staining, hard, wet, moderately weathered Monterey Formation.	SHALE			30 50/5" 40 50/1"	100		Rig chatter. Sample V13MW3-21.5 sent for chemical tests. End 1230.
25								
30								
35								
40								