



5750 ALMADEN EXPRESSWAY  
SAN JOSE, CALIFORNIA 95118  
TELEPHONE (408) 265-2600

January 29, 1988

Ensign John Heckman  
Department of the Navy  
Moffett Naval Air Station  
Moffett Field, California 94035

Dear Ensign Heckman:

The Santa Clara Valley Water District recently conducted a T.V. log of two wells (14 M1 and 14 M2) on Moffett Field that are proposed for sealing. The logs indicated blockages in both wells; one was a pump and the other a suspected pump.

Since these are deep wells the estimated costs for sealing is between \$20,000 and \$25,000, if the blockages could be easily removed. If the blockages need to be "drilled out" the estimated sealing costs escalate dramatically to as much as \$100,000 each.

The District's current well sealing program averages about \$2,600 per well. For the District to seal the two Moffett wells would severely impact our current program. In view of these facts it is recommended that the Navy make arrangements with an independent contractor for the well sealing.

Enclosed is a copy of the estimate for the sealing given to us by our contractor, Lane-Western. Please contact Mr. David Zozaya at (408) 265-2600, extension 382, if you wish any further information.

The District will be pleased to work with you on your well sealing effort and regret that we will be unable to assist you more directly with these two wells.

Sincerely,

  
John H. Sutcliffe  
Division Engineer  
Technical Services Division

Enclosure

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SCVWD/MAIL 2

**Layne-Western Company, Inc.** A Marley Company

P.O. Box 1326, 275 County Road 98/Woodland, California 95695/Phone: 916/662-2825

December 15, 1987

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LDW

Santa Clara Valley Water District  
5750 Almaden Expressway  
San Jose, CA 95118

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S. C. V. W. D.

Attention: Dave Zozaya

Re: Moffett AFE, Abandonment of 2 Wells

Dear Mr. Zozaya,

This letter is a cost estimate on abandonment of two wells at Moffett Field. I have worked up a best case scenario as well as a worst case scenario.

As you know, the information available on these wells is sketchy at best and I am working on the assumption that both wells are 1000 feet deep with 14 inch casing from the surface to total depth. The chance of the casing telescoping down in size with depth is great. We know a pump is lodged in one well and we will assume the other well also has a pump lodged in it.

Below I have described the procedures we will follow to abandon each well.

In the best case scenario we will be able to airlift all materials out of the wells and fish the pumps out with no extreme problems.

In the worst case we would not be able to airlift material out of the well so we would have to drill it out. We would first need to washover the pump and remove it and then we would need to drill out the well to the full inside diameter of the casing. If the casing has collapsed or shifted, cleaning it out to the bottom will be extremely difficult.



WATER SUPPLY SERVICES

Below is a list of equipment and material Layne-Western plans on using. These items are in addition to items previously quoted in our bid of February 18, 1987. Consumables (ie - drill bits, mud additives, etc...) will be sold at cost plus 20%. Specialty items such as washover pipe and impression blocks, which must be fabricated will be sold at cost plus 25%.

ITEM #	DESCRIPTION OF ITEM		UNIT PRICE
15	Furnish & operate 25 ton General Machine pump rig with 1000' of 4" eductor pipe and 1000' of tremie pipe	A. Straight Time	\$100.00
		B. Premium Time	\$115.00
16	Furnish & operate Failing 2000 mud rotary drilling rig	A. Straight Time	\$140.00
		B. Premium Time	\$155.00
17	Furnish & operate 125 psi, 325 CFM air compressor		\$275.00/day
18	Shop labor - preparing special items for job	A. Straight Time	\$30.00/man/ hour
		B. Premium Time	\$40.00/man/ hour
19	Welder fabricating items for job	A. Straight Time	\$45.00/man/ hour
		B. Premium Time	\$55.00/man/ hour
20	Portable tank for cuttings		\$35.00/day
21	Backhoe		\$200.00/day
22	Dump truck (5 ton)		\$175.00/day
23	Portable tank for cuttings		\$35.00/day

I believe the best case scenario would take approximately one hundred rig hours, 15 days compressor rental, and two hundred helper hours. Allowing for two video logs and the cost for cement we will be looking at approximately \$20,000.00 - \$25,000.00 per well.

The worst case scenario would be hard to estimate. Depending on problems encountered the price may reach \$100,000.00 or more per well.

Before we start the project we would like to meet with yourself and a member of the Air Force to set ground rules and to describe in detail the procedure we would follow to insure proper abandonment of the two wells.

If you have any questions regarding this letter do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Dea", written over a horizontal line.

Thomas M. Dea  
Sales Engineer  
Layne-Western Company, Inc.

TMD/krq