

**Layne-Western Company, Inc.**

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

August 5, 1992

Tom Gallagher  
City Engineer  
State of Nevada  
Capitol Complex  
201 S. Fall Street  
Carson City, Nevada 89710

*Log # 40265*  
*087 N19E20062*  
*Re-entry & subsequent abandonment of log # 40265*  
*See Also: Log # 40266*

Dear Mr. Gallagher:

This letter is being written to propose abandonment of a well we are working on for Westpac Utilities. *On El Rancho Dr.*

Enclosed please find my letter of June 3, 1992, on how the original test hole was abandoned. After water quality analysis were performed it was decided to drill out and complete the test well into a production well.

During construction of the production well Layne, Inc. experienced problems in installation and cementing the 30" conductor to 137'. Enclosed please find a sketch showing current conditions. Based on our contract we must abandon this hole per State requirements, move over and complete a new well.

Below please find a chronological list of construction performed to date:

1. Drill, water sample and abandon pilot hole.
2. Install 42" casing in 48" borehole to 60' and cement in place with 6 sack sand grout.
3. Drill from 60' to 137', install 30" casing to 137' in 38" bore.
4. Install two 2 7/8" tremie pipes 180 degrees from each other and two 1 1/4" pipes 90 degrees from 2 7/8" pipes to 130' minimum.
5. Pump approximately 7 yards of 10 sack sand slurry through one tremie pipe.
6. Attempt to pump through second tremie but line was plugged.
7. Sound cement between 42" and 30" casings at approximately 36'.
8. Attempt to pull casing (30").
9. Jet tremie pipe to 144' and obtain circulation in attempt to wash out cement. Jet with sugar solution.
10. Airlift inside 30" casing to 144' and obtain reverse circulation in an effort to wash out cement.



11. Attempt to pull tremie pipes, remove one 2 7/8" pipe, other 3 lines are cemented in place.
12. Shut down and evaluate.

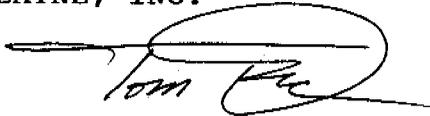
I am proposing abandonment of this well by the following techniques:

1. Install tremie pipe through existing jetted hole between 42" and 30" casing to 137'.
2. Obtain circulation and pump 6 sack sand slurry through tremie to fill annular space and fill inside 30" casing.
3. Run tremie inside 30" casing and fill with 6 sack sand grout if necessary.
4. Remove conductors to approximately 5' below ground surface and backfill with native soils.
5. Move over 10 to 15 feet and begin construction of new well.

Please review this request and respond to me in writing as soon as possible. We would like to begin abandonment August 6, 1992.

Sincerely,

LAYNE, INC.

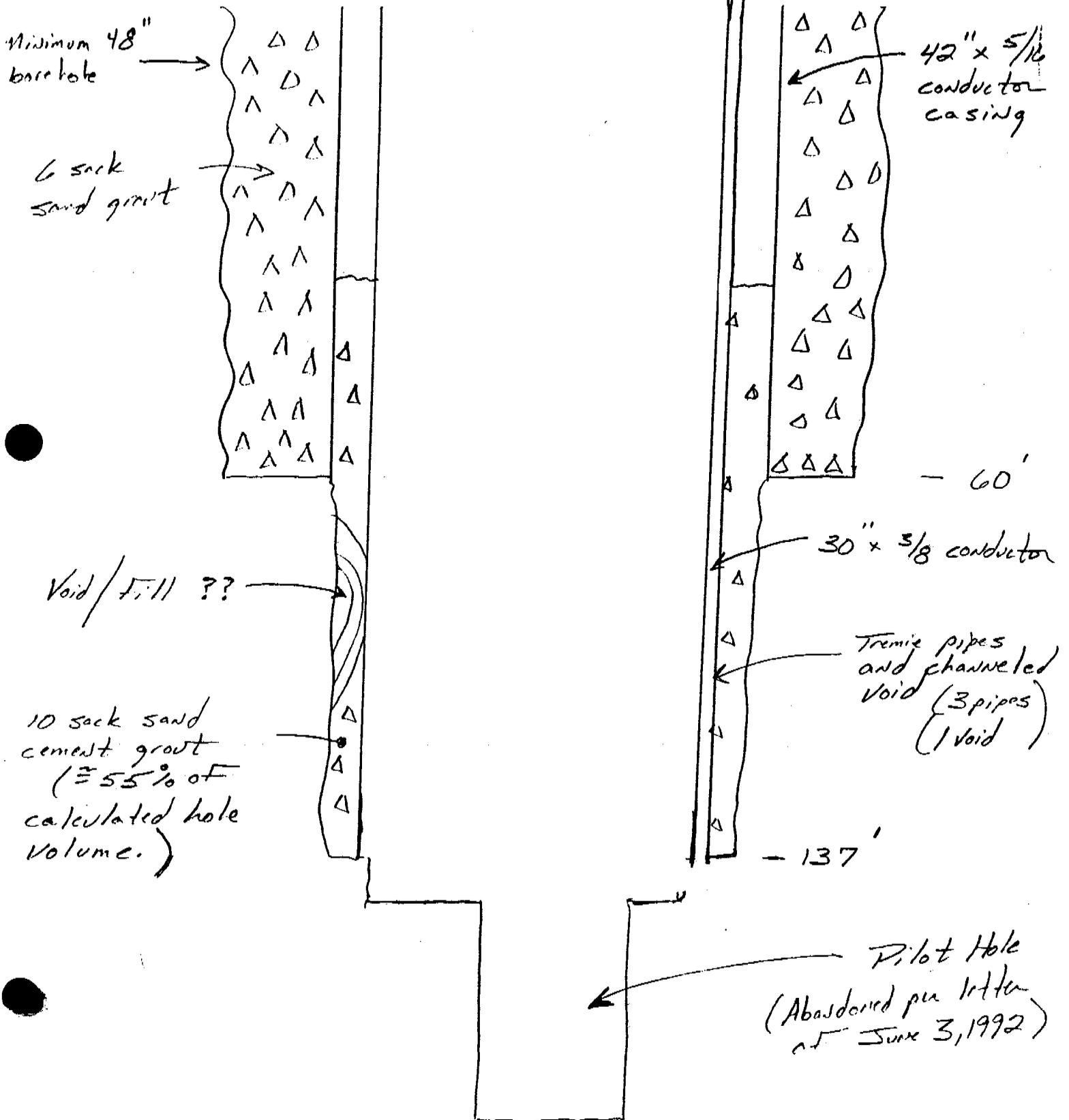


THOMAS M. DEA  
Sales Engineer

TMD:ab

cc: Tim Grover

enclosures



087-N19 E20 068a  
LOG # 40265

**Layne-Western Company, Inc.**

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

June 3, 1992

see log # 39386

Timothy Grover, P. E.  
Westpac Utilities  
Gas and Water Planning and Engineering  
P. O. Box 30028  
Reno, NV 89520-3028

RE: El Dorado Test Hole Sealing  
*Rancho*

Dear Mr. Grover:

This letter is written to inform you of the abandonment/temporary abandonment for the above referenced well. *on El Rancho Dr.*

In specification Item #12, on page TC-6, the pilot hole shall be abandoned per State of Nevada regulations. I have had conversations and approval from Tom Gallagher to abandon the well as follows:

- 1) Place gravel, sand, and drilling mud throughout the bore hole with benseal/E-Z mud seals at the following approximate depths.
  - A) 380' to 390'
  - B) 228' to 238'
  - C) 70' to 80'

In addition, the bore hole will be filled with "holeplug" bentonite grout from 50' to 20'; and from 20' to the surface with cement grout.

Abandonment of the well in this manner is taking place as we pull out and zone sample the test well. Abandonment in this manner will isolate water bearing zones so no cross contamination will be possible.

If the test hole is converted into a production well, Layne-Western will drill out the bore hole as necessary.



Log # 40265

Please contact me if you have any questions regarding this letter.

Sincerely,

LAYNE-WESTERN COMPANY, INC.

THOMAS M. DEA  
Sales Engineer

TMD:ab

cc: Dan Williams  
Tim Gallagher

