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Dear Mr Heinrichs:

Enclosed find the check for the total of the job.

Reference how did things turn out:

Your firm is so good that when the State and County men read your report, they immediately lowered the boom on this foolishness on the hill. They are making him go back to his original plan on his sewage disposal.

I left a copy of your report with the County Sanitation Dept so that they could use it for future reference.

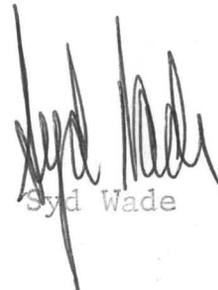
I guess you noticed by the paper where he was blocked on his plan for rezoning on the corner of Mt Lemon Road and Soldiers Trail also.

I want to thank you again for the report which was exactly what we wanted. It was so complete and so explanatory that I couldn't have done a better job myself.

There is one thing and that is if anyone ever asks me for the name of a Geology Company around here, yours is the only one that will be mentioned.

I don't look for any more trouble on the sewage part of it. The only thing I am wondering about now is how in hell he is going to service 105 houses plus horses on that one measly little well down there. We have barely enough water for two houses. Maybe a little later I will get with you and we can get this one figured out. I don't want him to pump this well at the place dry, and if he is on the same level this might happen.

Regards



Syd Wade

P.S. I also learned to spell
"Geoexploration" without looking
at your letterhead -

Machin Copy W Wade 6-11-63

May 16, 1963

Mr. Sidney A. Wade
P. O. Box 6628
Tucson, Arizona

Re: Water Supply Contamination
Considerations Sec. 16, 17,
18: T 13 S, R 16 E
Pima County, Arizona

Dear Mr. Wade:

Per your request during a visit to our office on May 2, 1963 and ensuing phone conversations thru May 9, 1963, the morning of May 13 was spent inspecting the area, examining wells and measuring water levels, etc. The results of the latter as a memo from Water Development Corporation (Wadevco) are attached. Wadevco's assistance in the matter and especially their cognizance, was deemed essential in view of possible registered engineer requirements related to our current work load and the relative short notice and need for haste involved.

Wadevco personnel were Mr. Leonard C. Halpenny, President and Mr. Don Green as assisting observer only.

As in any situation involving sewage and water supply systems relatively close to each other, there is always a technical possibility for contamination. However, if proper procedures are used, which take into account the conditions involved, sanitary compatibility can be technically achieved.

Conditions in this case relate to a strip of exposed and fractured Catalina gneiss about $\frac{1}{2}$ mile wide, which slopes an average of about 15° southerly just below the Mt. Lemmon Highway between Soldier Canyon at the west and Molino Canyon on the east. Where this slope begins to flatten out, the gneiss disappears beneath a cover of boulders and mixed sand, gravel, silt and clay alluvium. Apparently water exists, at least in places, in the fractured bedrock gneiss as well as in the alluvium. This indicates that the gneiss is not everywhere quite as impervious

Mr. Sidney A. Wade

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May 16, 1963

as it generally appears over much of the surface.

Under these circumstances and with proper and adequate septic tank and leaching field provisions for each dwelling and not too many dwellings concentrated too close together, it is considered that no contamination from direct sewer to well causes or any likely indirect causes will occur. A safe spacing between any one well and the nearest in ground-non-sealed sewer facility is about 750 ft., especially if directly up-slope from the well.

Of course adequate and proper facilities in this case may be quite expensive to construct in the exposed gneiss areas, but technically it could be done, even though it is felt that some acceptable central treatment disposal system would be preferable and less expensive in the long run. No type of cess-pool system is recommended.

Actual source of contamination of such relatively shallow wells especially like the one in Molino Canyon might be very difficult to prove and separate from other numerous local and even "self" sources. For example, the so called "Sneller" well if used, would be about as susceptible as any of those wells examined. Furthermore, some consideration should be given to eventual subdivision possibilities of your own and other adjoining properties.

Therefore it is recommended that, if not already done, the exact plans in detail of the Milagrosa Hills group be ascertained by your legal council and that they be continuously followed as executed by appropriate inspection--at least as is legally required.

Respectfully submitted,

HEINRICHS GEOEXPLORATION CO.


Walter E. Heinrichs
President

General Manager

HEINRICHS, JR.

DEC. 31, 1963
ARIZONA, U. S. A.

WEH: jh
cc: Wadevco

Wall - 5-9-63

Call Len Halpenny

Ea 61133

when you can.

He got in this a.m.

✓ J.

Don Hardy

Tentative re Wade.

W.

Water Development Corporation

CONSULTANTS IN GROUND-WATER HYDROLOGY

3938 SANTA BARBARA AVENUE
TUCSON, ARIZONA

May 14, 1963

PHONE: EAST 6-1133
CABLE: WADEVCO, TUCSON



MEMO FOR THE FILE, PROJECT 463

(D-13-16) 16 ccb

Abandoned, dug well, on west bank of wash, reported owned by Loftus. About a mile east of Loftus home. Water standing in pool in wash about 75 ft. upstream from well. Water level, 8.05 feet below wooden well cover, which is about 1 ft. above land surface. Shown on 1957 Bellota Ranch Quad. Alt. about 2,780 ft.

(D-13-16) 17 cab

Domestic, drilled well, 8-inch casing, submersible pump, about 750 feet east of Loftus-Wade residences, near a concrete block warehouse building. Water level, 58.82 feet below top of 3/4-in. meas. pipe which protrudes from a 10-in. square steel plate resting on a pyramidal concrete base. Measuring point about 1.2 ft. above land surface. Shown on 1957 Bellota Ranch Quad. Alt. about 2,820 ft.

(D-13-16) 17 cba

Domestic, dug well at Loftus-Wade houses on west side of corral alongside abandoned pump house, with electric cylinder pump and pressure switch. Water level, 50.05 feet below top of wood well cover, which is about 1.5 feet above land surface. Formerly equipped with windmill. Alt. about 2,840 ft.

(D-13-16) 18 adc

Abandoned, dug well cased with cylindrical concrete tile about 24-in. diameter. Formerly equipped with windmill. Probably old Prison Camp well. Dated 1935. Water level, 41.2 ft. below top of casing, which is about 0.5 ft. above land surface. Alt. about 2,860 ft.

May 14, 1963

(D-13-16) 18 add

Abandoned, drilled well, formerly equipped with windmill, diameter 8-in. Probably "Sneller Well." Was recently tested, estimate 2-3 gpm. Water level, 27.1 ft. below top of casing, which is about 0.5 ft. above land surface. Shown on 1957 Bellota Ranch Quad with symbol for windmill. Alt. about 2,860 ft.

(D-13-16) 18 dba

Abandoned, drilled well on south side of Soldier Trail between Mt. Lemmon road and turn to south, 6-in. csg. Dry at about 10 ft. Top of casing about 1 ft. above rock platform which is about 4 ft. above bed of wash, on west side. Shown on Bellota Ranch Quad. Alt. about 2,800 ft.

Leonard C. Halberry