97392
MW13

1.0 INTRODUCTION

Between July 6, 1991 and July 21, 1991, three existing monitor wells owned by TFWC/EM, Nellis Air Force Base, Nevada, 89191, were abandoned in accordance with State of Nevada guidelines. These wells were located to the north of Las Vegas Boulevard and west of Range Road near the present North Gate of Nellis Air Force Base in Clark County, Nevada. The owner's designation of these wells were MW-13, MW-35, and MW-36. The locations of these wells are shown on Figure 1. Monitor well 13 was located in the NE 1/4 of the NE 1/4, Section 4, T20S, R62E. Monitor wells 35 and 36 were located in the NW 1/4 of the NE 1/4, Section 4, T20S, R62E.

The abandonment program was performed by Beylik Drilling Inc. of Sacramento, California under the on-site supervision of John F. Olenski (Nevada Driller's License #1656). Beylik Drilling Inc. was subcontracted by OHM Corporation of Walnut Creek, California to provide drilling services at Nellis AFB under a contract administered by the U.S. Army Corps of Engineers.

Table 2
Well Abandonment Data
Nellis AFB, Nevada

Well Designation	Notice of Intent #	Abandonment Start	Abandonment Complete	Depth of Well	Depth Drilled
MW-13	11121	7/7/91	7/8/91	110 ft	110 ft
MW-35	8289	7/20/91	7/21/91	98 ft	110 ft
MW-36	11122	7/6/91	7/6/91	98 ft	105 ft

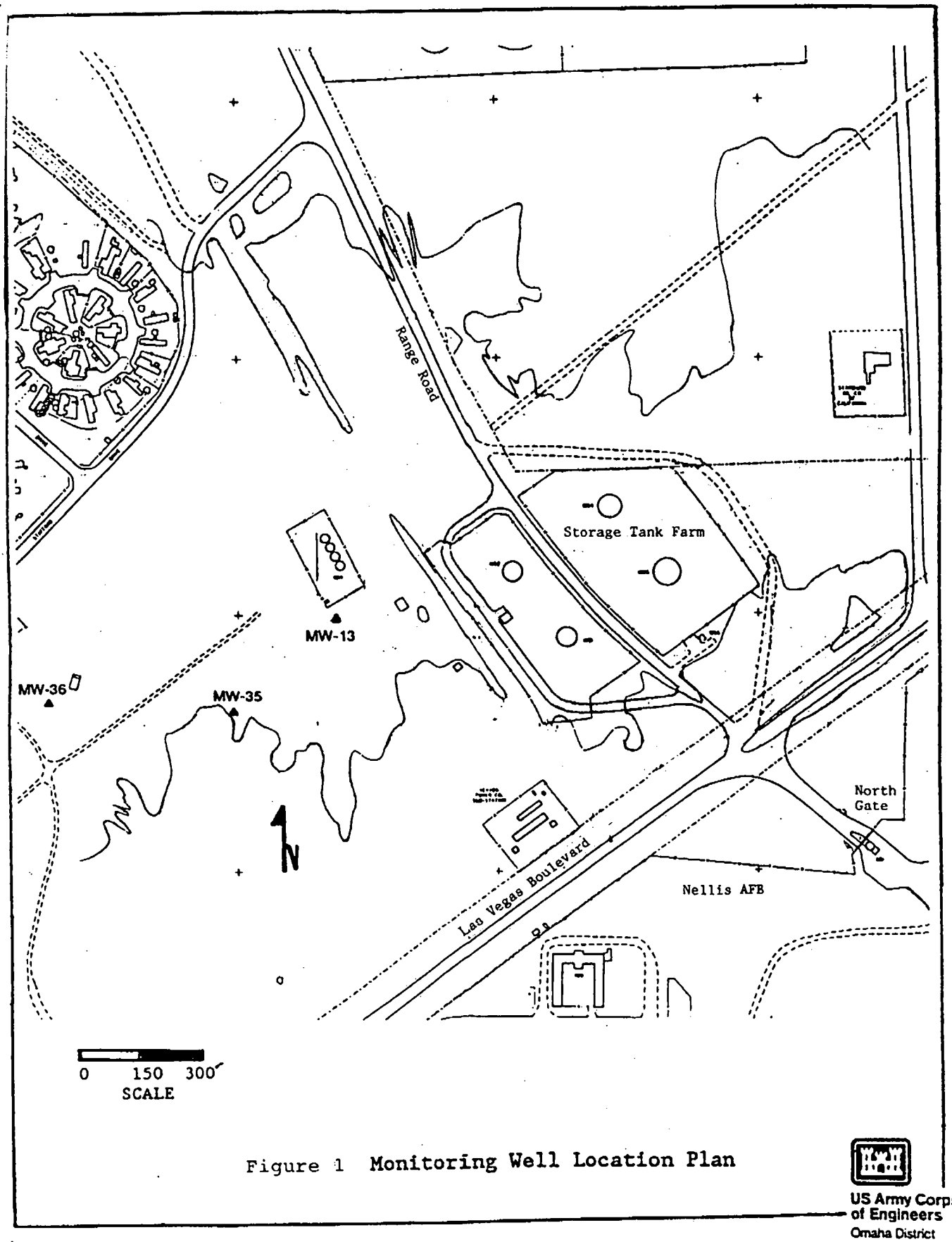

Figure 1 Monitoring Well Location Plan

US Army Corps of Engineers
Omaha District

Courtesy US Army Corps of Engineers

OHM Corporation

August 16, 1991

Branch Manager
Division of Water Resources
State of Nevada
Mail Complex
Las Vegas, NV 89195

RE: Report of Abandonment of Three Monitor Wells at Nellis AFB

Enclosed please find a copy of the Report of Well Abandonment, Monitor Wells MW-13, MW-35, MW-36, Nellis Air Force Base, Nevada. This report is submitted according to requirements as set forth in subchapter 534.420 of Regulation for Water Well and Related Drilling (Division of Water Resources, January 1990).

If you have any questions concerning this report please contact me at (916) 928-1819 or Mr. John Olenski of Beylik Drilling Inc. at (916) 485-0792.

Sincerely,

Scott Rice

Scott Rice
Project Hydrogeologist

RECEIVED
AUG 19 1991
Div. of Water Resources
Branch Office Las Vegas, NV

1425 W. North Market Boulevard ■ Suite 9 ■ Sacramento, California 95834 ■ 916-928-1819

REPORT OF WELL ABANDONMENT
MONITOR WELLS MW-13, MW-35, MW-36
NELLIS AIR FORCE BASE, NEVADA

Prepared for:

State of Nevada
Division of Water Resources
Las Vegas, Nevada

Prepared by:

OHM Remediation Services Corporation
Walnut Creek, California

and

Beylik Drilling Inc.
Sacramento, California

RECEIVED
JUL 22 1991

John Olenski
Beylik Drilling Inc.
State of Nevada Driller's License #1656

July 14, 1991

3.0 WELL ABANDONMENT PROCEDURES

Each of the three monitor wells were abandoned in accordance with subchapter 534.420 of the State of Nevada Regulations for Water Well and Related Drilling. Monitor well MW-13 was abandoned between July 7 and 8, 1991. Monitor well MW-35 was abandoned between July 20 and 21, 1991. Monitor well MW-36 was abandoned on July 6, 1991. Table 2 presents well abandonment data in a tabular format. The following is a discussion of well abandonment procedures.

At each well location the concrete pad was broken by hand or by using a fork lift and the concrete debris, steel riser, and protective pipes were lifted from the well head. Each well was then overdrilled with hollow-stem augers of the same or larger diameter as those used during well installation. Monitor well MW-13 had been constructed in a 6-7/8" diameter borehole drilled by air rotary methods. This well was abandoned by overdrilling with 8-1/2" outside diameter hollow stem augers. Monitor wells MW-35 and MW-36 were constructed in 10-5/8" diameter boreholes drilled by the hollow stem auger method and were abandoned by overdrilling with hollow stem augers of the same outside diameter.

Each well was overdrilled to a depth as great as or greater than the total depth of the well. Monitor well MW-13, with a total depth of 110 feet, was overdrilled to a depth of 110 feet. Monitor wells MW-35 and MW-36, each completed to a depth of 98 feet, were overdrilled to the depths of 110 feet and 105 feet, respectively. The annular space materials were returned to the surface as cuttings during the overdrilling process and the well casing was removed during the removal of the augers from the borehole. The materials recovered from each of the three monitor wells during abandonment were consistent with the documented well construction. The well casing from the two four-inch diameter wells (MW-35, MW-36) was recovered relatively intact in several sections. The well casing from the two-inch diameter well MW-13 was crushed and compacted in the lower sections of augers during drilling but was apparently removed in its entirety.

Upon the removal of annular space materials and well casing, each borehole was plugged with neat cement mixed so as to prevent the flow of aquifer water into former borehole location. The neat cement was circulated from the bottom of the borehole through a tremie pipe using a grout pump. Plugging was ceased when grout flowed freely at the surface from the borehole location at which time the tremie pipe was removed and the grout was allowed to set. If necessary, additional grout was added from the surface to compensate for minor settling.