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DRILLER LICENSE = 1390

SERGENT, HAUSKINS & BECKWITH CONSULTING GEOTECHNICAL ENGINEERS
SOIL & FOUNDATION ENGINEERING • ENGINEERING GEOLOGY • HYDROGEOLOGY
MATERIALS ENGINEERING • MATERIALS TESTING • ENVIRONMENTAL SERVICES

REYNOLDS DRILLING CO.

June 5, 1989

SHB Job No. E89-2

Department of Conservation
& Natural Resources
Division of Water Resources
Capital Complex
201 South Fall Street
Carson City, Nevada 89710

Attention: Mr. Tom Gallegher
Hydraulic Engineer

Re: Monitor Well Abandonment
Remedial Geotechnical Services
Rain Project
Elko County, Nevada

Gentlemen:

At the request of Mr. Tom Gallegher, this letter addressing monitor well abandonment at the Rain Project is herewith submitted. Well abandonment was performed as per our conversation on May 16, 1989. That is, those wells with static water levels within the screened portion of the well were pressure grouted from the surface using a cement grout, while those wells having static water levels above the screened interval were ripped for an approximate 20-foot length above the screen and then pressure grouted from the surface using a cement grout. Table 1 outlines the well construction and method of abandonment for each of the wells abandoned.

REPLY TO: 3232 W. VIRGINIA, PHOENIX, ARIZONA 85009

| PHOENIX | TUCSON | ALBUQUERQUE | SANTA FE | SALT LAKE CITY | EL PASO | RENO/SPARKS |
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| (602) 272-6848 | (602) 792-2779 | (505) 884-0950 | (505) 471-7836 | (801) 266-0720 | (915) 564-1017 | (702) 331-2375 |

Log #'s 91059, 91060, 91061, 91062, 91063, 91064, 91065, 91066, 91067, 91068, 91069, 91070, 91071, 91072, 91073, 91074, 91075

Elko County

Monitor Well Abandonment
Remedial Geotechnial Services
Rain Project
Elko County, Nevada
SHB Job No. E89-2

TABLE 1

MONITOR WELL ABANDONMENT

| Basin | Monitor Well I.D. | Location | Notice of Intent Number | Permit Number | Total Depth (1) (feet) | Diameter (inches) | Screened Interval (1) (feet) | Water Level (1) (feet) | Date Measured | Method of Abandonment | Date Abandoned | Amount of Grout Used (2) (cubic feet) | Grouting Pressure |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 053 | MW-7 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-120 | 39 | 2 | 29-39 | 24.0 | 5-24-89 | Rip Casing & Pressure Grout | 5-24-89 | 38 | 10 PSI |
| | MW-8 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-120 | 24.5 | 2 | 9.5-24.5 | 22.8 | 5-23-89 | Pressure Grout | 5-23-89 | 3 | 55 PSI |
| | MW-9 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-120 | 50 | 2 | 40-50 | 23.3 | 5-23-89 | Rip Casing & Pressure Grout | 5-23-89 | 3.5 | 65 PSI |
| | MW-10 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-120 | 24.5 | 2 | 9.5-24.5 | 13.5 | 5-23-89 | Rip Casing & Pressure Grout | 5-23-89 | 2 | 30 PSI |
| | MW-11 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-120 | 50 | 2 | 40-50 | 47.4 | 5-23-89 | Pressure Grout | 5-23-89 | 3.5 | 30 PSI |
| | MW-12 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-120 | 29.5 | 2 | 14.5-29.5 | Dry | 5-23-89 | Pressure Grout | 5-23-89 | 1 | 30 PSI |
| | MW-13 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-120 | 48.5 | 2 | 38.5-48.5 | Dry | 5-24-89 | Pressure Grout | 5-24-89 | 3.5 | 60 PSI |
| | MW-15 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-120 | 59.5 | 2 | 39.5-59.5 | Dry | 5-25-89 | Pressure Grout | 5-25-89 | 3.5 | 60 PSI |
| | MW-17 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-129 | 120 | 1 | 30-120 | Dry | 5-24-89 | Pressure Grout | 5-24-89 | 3.5 | 30 PSI |
| | MW-18 | NE1/4, NW1/4, SEC.9, T31N, R53E | 10990 | MO-129 | 34 | 2 | 24-34 | 25.8 | 5-23-89 | Pressure Grout | 5-23-89 | 3.5 | 80 PSI |
| | MW-2 | NE1/4, NW1/4, SEC.9, T31N, R53E | --- | --- | 100 | 6 | 15-100 | 83.4 | 5-25-89 | Pressure Grout | 5-25-89 | 45 | 30 PSI |
| | L-MW-1 | SE1/4, NE1/4, SEC.4, T31N, R53E | 10990 | M-120 | 28 | 2 | 8-28 | 7.9 | 5-26-89 | Rip Casing & Pressure Grout | 5-26-89 | 2 | 30 PSI |
| | L-MW-2 | SE1/4, NE1/4, SEC.4, T31N, R53E | 10990 | MO-120 | 19 | 2 | 9-19 | Dry | 5-26-89 | Pressure Grout | 5-26-89 | 2 | 30 PSI |
| | L-MW-3 | SE1/4, NE1/4, SEC.4, T31N, R53E | 10990 | M-120 | 34.5 | 2 | 24.5-34.5 | Dry | 5-26-89 | Pressure Grout | 5-26-89 | 3.5 | 20 PSI |
| | L-MW-4 | SE1/4, NE1/4, SEC.4, T31N, R53E | 10990 | M-120 | 27 | 2 | 7-27 | Dry | 5-26-89 | Pressure Grout | 5-26-89 | 3.5 | 20 PSI |
| | L-MW-5 | SE1/4, NE1/4, SEC.4, T31N, R53E | 10990 | M-120 | 27 | 2 | 17-27 | Dry | 5-26-89 | Pressure Grout | 5-26-89 | 2 | 30 PSI |
| | L-MW-6 | SE1/4, NE1/4, SEC.4, T31N, R53E | 10990 | M-120 | 43 | 2 | 33-43 | Dry | 5-26-89 | Pressure Grout | 5-26-89 | 3.5 | 30 PSI |

Notes: (1) Measured from ground surface.
(2) Grout Mix; 6 gallons water to 1 bag cement.