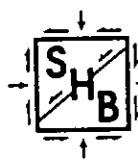


11/0-120 04
048 N31 E53, 09

DRIVER LICENSE = 1390



SERGEANT, HAUSKINS & BECKWITH CONSULTING GEOTECHNICAL ENGINEERS

SOIL & FOUNDATION ENGINEERING • ENGINEERING GEOLOGY • HYDROGEOLOGY
MATERIALS ENGINEERING • MATERIALS TESTING • ENVIRONMENTAL SERVICES

REYNOLDS
DRILLING Co.

June 5, 1989

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

SHB Job No. E89-2

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 (602) 272-8848	TUCSON (602) 792-2779	ALBUQUERQUE (505) 884-0950	SANTA FE (505) 471-7836	SALT LAKE CITY (801) 266-0720	EL PASO (915) 564-1017	RENO/SPARKS (702) 331-2375
---------------------------	--------------------------	-------------------------------	----------------------------	----------------------------------	---------------------------	-------------------------------

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

Elko County

TABLE 1
MONITOR WELL ABANDONMENT

Monitor Well I.D.	Location	Notice of Intent Number	Permit Number	Total (1) Depth (feet)	Diameter (Inches)	Screened (1) Interval (feet)	Water (1) Level (feet)	Date Measured	Method of Abandonment	Date Abandoned	Amount of (2) GROUT Used (cubic feet)	Grouting Pressure
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

Log #18

91059
91060
91061
91062
91063
91064
91065
91066
91067
91068
91069
91070
91071
91072
91073
91074
91075

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

