



EMID-700129

**DEPARTMENT OF ENERGY**  
Environmental Management Los Alamos Field Office (EM-LA)  
Los Alamos, New Mexico 87544

NOV 19 2018



Mr. John E. Kieling  
Bureau Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303

Dear Mr. Kieling:

Subject: Fact Sheets for Regional Well R-69 (RG 97398)

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the Fact Sheets for Regional Well R-69. Well R-69 was completed on October 24, 2018.

Monitoring well R-69 was installed under the September 2017 "Summary Report for R-68 and Drilling Work Plan for R-69, Revision 1" (ADEM-17-0242), approved by the New Mexico Environment Department (NMED) on October 23, 2017. The well completion report will be submitted 150 days after the NMED-complete date of October 24, 2018.

If you have comments or questions, please contact Mark Everett at (505) 309-1367 (mark.everett@em-la.doe.gov) or Cheryl Rodriguez at (505) 665-5330 (cheryl.rodriguez@em.doe.gov).

Sincerely,

Arturo Q. Duran  
Designated Agency Manager  
Environmental Management  
Los Alamos Field Office

Enclosures:

1. Fact Sheets for Regional Well R-69 (EM2018-0115)

cc: (letter and enclosure[s] emailed)  
L. King, EPA Region 6, Dallas, TX  
R. Martinez, San Ildefonso Pueblo, NM  
D. Chavarria, Santa Clara Pueblo, NM  
S. Yanicak, NMED  
E. Day, N3B  
E. Evered, N3B  
M. Everett, N3B  
F. Johns, N3B  
J. Legare, N3B  
D. Lindsay, N3B  
F. Lockhart, N3B  
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P. McGuire, N3B  
B. Robinson, N3B  
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D. Rhodes, EM-LA  
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H. Shen, EM-LA  
emla.docs@em.doe.gov  
N3B Records  
Public Reading Room (EPRR)  
PRS Database

EM-LA-40AD-00360

TOTAL LENGTH  
OF CASING AND SCREEN (ft) 1408.2

DEPTH TO WATER  
FOLLOWING INSTALLATION (ft bgs) 1292.5 (10/25/18)

DIAMETER OF BOREHOLE  
18.00 (in) FROM 0 TO 17 (ft bgs)  
17.00 (in) FROM 17 TO 683 (ft bgs)  
16.00 (in) FROM 683 TO 905 (ft bgs)  
12.75 (in) FROM 905 TO 1265 (ft bgs)  
10.75 (in) FROM 1265 TO 1443 (ft bgs)

**SURFACE COMPLETION (to be installed)**

PROTECTIVE CASING

TYPE STEEL SIZE (in) 16  
PROTECTIVE POSTS INSTALLED    

SURFACE SEAL AND PAD

CHECK FOR SETTLEMENT      
PAD MATERIAL      
REINFORCED      
PAD DIMENSIONS (ft) 10 (L) 10 (W) 0.8 (H)

**SURFACE SEAL** 29.3 TO 100.1 (ft bgs)

Note: interval from 0 to 29.3 ft will be grout sealed  
pending NMOSE acceptance of variance to leave the  
18-in casing in the ground

**HYDRATED  
BENTONITE CHIP  
SEAL** 100.1 TO 1303.3 (ft bgs)

**FINE SAND COLLAR** 1303.3 TO 1305.3 (ft bgs)

**FILTER PACK** 1305.3 TO 1335.6 (ft bgs)

**SCREENED INTERVAL** 1310.0 TO 1330.2 (ft bgs)

**BENTONITE SEAL** 1335.6 TO 1368.6 (ft bgs)

**FINE SAND COLLAR** 1368.6 TO 1370.5 (ft bgs)

**FILTER PACK** 1370.5 TO 1401.2 (ft bgs)

**SCREENED INTERVAL** 1375.5 TO 1395.8 (ft bgs)

**BOTTOM OF CASING** 1406.2 (ft bgs)

**BENTONITE SEAL** 1401.2 TO 1443.2 (ft bgs)

**SLOUGH** 1443.2 TO 1443.4 (ft bgs)

**BOTTOM OF BORING** 1443.4 (ft bgs)

LOCKING COVER

ELEVATIONS (ft amsl)

WELL CAP TBD  
PROTECTIVE CASING TBD  
GROUND SURFACE TBD  
MONUMENT MARKER TBD

SLOPED CONCRETE PAD/SURFACE

**18-in. CASING**  
3.0 TO 16.6 (ft bgs)

**SURFACE SEAL**  
MIX (WT%) CEMENT 100%  
QUANTITY USED (ft<sup>3</sup>) 147.1 CALCULATED (ft<sup>3</sup>) 100.6

**TYPE OF CASING**  
MATERIAL STAINLESS-STEEL  
ID (in) 5.00 OD (in) 5.56 (5 11/16)  
JOINT TYPE Beveled

**16-in. CASING SHOE**  
899.1 TO 905.0 (ft bgs)

**HYDRATED BENTONITE SEAL**  
FORM CHIP/PELLETS  
QUANTITY USED (ft<sup>3</sup>) 1490.3 CALCULATED (ft<sup>3</sup>) 1368.4

**12-in. CASING SHOE**  
1257.1 TO 1264.5 (ft bgs)

**FINE SAND COLLAR**  
SIZE/TYPE 20/40 SILICA  
QUANTITY USED (ft<sup>3</sup>) 2.0 CALCULATED (ft<sup>3</sup>) 0.9

**FILTER PACK SAND**  
SIZE/TYPE 10/20 SILICA  
QUANTITY USED (ft<sup>3</sup>) 25.5 CALCULATED (ft<sup>3</sup>) 13.9

**TYPE OF SCREEN**  
MATERIAL STAINLESS-STEEL  
ID (in) 5.00 OD (in) 5.88 (5 7/8)  
SLOT SIZE (in) 0.040 JOINT TYPE Beveled

**BENTONITE SEAL**  
FORM CHIP/PELLETS  
QUANTITY USED (ft<sup>3</sup>) 25.7 CALCULATED (ft<sup>3</sup>) 15.2

**FINE SAND COLLAR**  
SIZE/TYPE 20/40 SILICA  
QUANTITY USED (ft<sup>3</sup>) 4.8 CALCULATED (ft<sup>3</sup>) 0.9

**FILTER PACK SAND**  
SIZE/TYPE 10/20 SILICA  
QUANTITY USED (ft<sup>3</sup>) 22.0 CALCULATED (ft<sup>3</sup>) 13.4

**TYPE OF SCREEN**  
MATERIAL STAINLESS-STEEL  
ID (in) 5.00 OD (in) 5.88 (5 7/8)  
SLOT SIZE (IN) 0.040 JOINT TYPE Beveled

**BENTONITE SEAL**  
FORM CHIP  
QUANTITY USED (ft<sup>3</sup>) 30.5 CALCULATED (ft<sup>3</sup>) 25.6

**10-in. CASING SHOE**  
1439.5 TO 1443.4 (ft bgs)

**STAINLESS-STEEL CENTRALIZERS**  
USED 4 AT 2.0 ft ABOVE AND  
BELOW EACH WELL SCREEN

**WELL COMPLETION BEGAN**

DATE 9/27/18 TIME 1520

**WELL COMPLETION FINISHED**

DATE 10/24/18 TIME 2245

**TerranearPMC**

Drafted By: TPMC  
Project Number: 73001

Date: November 14, 2018  
File Name: R-69\_As-built\_WellDesign\_Rev0

**Well R-69 As-Built Well Construction**

Technical Area 14 (TA-14)  
Los Alamos National Laboratory  
Los Alamos, New Mexico

Fact Sheet

**R-69**

NOT TO SCALE

