Homestake Mining Company
Grants Project
Large Tailings Facility
Radon Barrier Repair Project

Cibola County, New Mexico

COMPLETION REPORT

Completed and Prepared by:

Duran Bokich Enterprises, LLC
PO Box 1474, 307 Catfish Road
Elephant Butte, New Mexico 87935
Ph: 575-740-2840
email: jbokich@dbe-usa.com

14 December 2010

Homestake Mining Company Grants Project
Radon Barrier Repairs Project
Completion Report

Introduction

The Homestake Mining Grants Project is a closed uranium mill facility located on about 5 miles north of the village of Milan on Highway 605, Cibola County, New Mexico. The facility is located on private lands owned by Homestake Mining Company of California.

Alan Cox, Project Manager and Dan Kump, Senior Project Engineer for the Homestake Grants Project, contracted Duran Bokich Enterprises, LLC (Duran Bokich), to perform the work for the repair of the radon barrier soil cover over tailings in the Large Tailing Facility. Locations where the radon barrier was to be repaired were relatively small and isolated, and all are located on the south side of the Large Tailings Facility. Repairs were necessitated due to erosion of the radon barrier in four (4) locations due to leakage between joints of Corrugated Steel Pipe (CSP) Stormwater Downdrains, which were replaced with continuously fused HDPE Downdrain Pipes in October through early December of 2010, just prior to initiation of this repair project (See [1]Stormwater Downdrains Project Report by Duran Bokich Enterprises, December 2010).

The Homestake Mining Grants Project Large Tailings Pile, was constructed during operations of the Homestake-New Mexico Partners, Homestake-Sapin Partners and Sabre-Pinon Corporation Uranium Milling operations roughly between 1956 and 1990. Tailings in the Large Tailings Pond consist of about 21 million tons, of which about 7.6 million tons were generated for commercial interests and 13.45 million tons under contract with the Atomic Energy Commission.

The tailing facility was constructed utilizing tradition methods of cycloning the tailings and using the course fraction (sands) to construct the embankment and depositing the cycloned fine fraction (slimes) in the interior of the embankment.

Reclamation of the Large Tailings Pile began in 1990, and generally consisted of regrading to reduce side slopes to an average 5 to 1 grade, covering of the tailings with native, locally sourced soil materials to a depth of 4-plus feet compacted to a minimum 95 to 100 percent maximum dry density (MDD). This compacted native soil cover acts as a radon barrier to control and minimize radon emissions to the atmosphere from the tailings. The compacted soil cover radon barrier is then covered with a layer of D_{50} 12-inch basalt riprap to minimize and control potential erosion from wind and stormwater.

The top perimeter of the Large Tailings Pile is graded and a berm erected to prevent stormwater from flowing from the top and down the sides to minimize the potential for erosion of the side slope radon barrier layer. The stormwater contained on the top of the pile by the berm is transported down the sides slopes of the tailing pile through 12-inch diameter pipe downdrains.

This project was to repair the radon barrier layer where erosion from leakage of stormwater from the CSP downdrains had reduced the thickness of the barrier below the design criteria of approximately 48 inches. Design criteria for the repair was taken from a report entitled, “Final Radon Barrier Design for the Large Tailings Pile, Homestake Mining Company of California”, dated June 1995 and prepared by Environmental Restoration Group, Inc. of Albuquerque, New Mexico[1]. The report states, “…tailings parameters shown to be accurate for the side slopes, other than the Ra-226 concentrations gathered in this

study, were used to calculate the required radon barrier thickness for the top of the pile. The borrow materials will come from the North Borrow Area and have a long-term moisture of 15.5 percent. The top six inches of interim cover will be recompacted to 95 percent MDD (Maximum Dry Density) to serve as a base for the additional radon barrier. The additional radon barrier will consist of a 24-inch layer of North Borrow compacted to 100 percent MDD followed by a 21-inch layer compacted to 95 percent MDD."

To ensure that design densities for the different layers were met, the engineering firm of Kleinfelder[3], Albuquerque, New Mexico, was engaged to do field density determinations using a Troxler Model 3440 nuclear density machine (Troxler). Prior to initiation of the project, Kleinfelder personnel had met with Dan Kump of Homestake and John Bokich of Duran Bokich and determined that utilization of the Troxler in the field would provide data that would correlate with the density requirements developed in the 1995 construction where a Sand Cone was used to determine field densities. Field density and moisture data for this project is provided in Appendix B.

The locations of the repair areas are shown on Figure 1, a schematic of the Large Tailings Facility, and are referenced by their relative location to newly established Stormwater Downdrains.

Scope of Work

The Homestake Mining Grants Large Tailings Pile Radon Barrier Repair Project (Radon Barrier Repair Project) consisted of removal of the existing Basalt Riprap cover layer, and stockpiling it to one side of the repair and equipment access working area. A Kobelco ED190 Excavator with a thumb attachment was used to remove the Riprap by both picking it up with the bucket/thumb and also by pushing the material to the side with the side of the bucket.

The eroded areas were then worked with the Excavator to level the surrounding areas down to the deepest depth of erosion, and open the repair area up to a width that would allow placement of Radon Barrier Soil Materials that were stockpiled in the SE corner of the Tailings Facility. Imported replacement Radon Barrier Soil was first trammed to the repair location and water added by pump and hose from a trailer mounted water tank, and material worked with the front-end loader and/or the excavator to increase moisture content and percentages in the stockpiled material. When moistures levels appeared near optimum, the barrier material was then either directly placed with a front-end loader and worked into the area to be repaired with the excavator for larger repair sites, or for smaller sites or repair locations is was dumped within reach of the excavator which then was used to place the radon barrier soil into the repair areas. In all cases, the radon barrier was placed in loose twelve (12) inch lifts and then compacted and densities tested to ensure design density and moisture was met before placement of the next lift. After compaction and density criteria being met, the 12-inch lifts were between 6 and 8 inches in thickness. In some cases, additional water was added as the material was being worked in place to aid with increasing field moisture percentages and densities. All field densities and moistures were within design criteria as determined by Kleinfelder before equipment was removed from the area.

Areas where the Radon Barrier was repaired are labeled in relation to their position to stormwater downdrains to allow future reference to their location. For example, Repair Area No. R11-W refers to "Repair Area located West of Downdrain No. 11", and so forth.

The details of the areas repaired are as follows:

1) Repair Area No. R8-W was the largest area of repair at 32 feet wide and 170 feet long, and nearly four (4) feet deep at the deepest point of repair. The general locations of the Radon Barrier Repair Areas is shown on Figure 1, a schematic of the Large Tailing Pile showing roadways, down drain locations and radon barrier repair area locations.
2) Repair Area No. R11-W is located about 35 feet West of Drain No. 11, and was about 22 feet wide by 160 long in size and also three (3) feet deep at the lowest point of repair.

3) The smallest repair area (Repair Area No. R11-E), is located East of Drain No. 11 about 45 feet, was about 12 feet wide by 20 feet long (downslope) in size and three (3) feet deep at the deepest point of repair. This area was repaired using the excavator bucket and a "Jumping Jack" portable compactor to achieve design densities for the repair.
4) Repair Area No. R12-W is located about 25 feet west of Drain No. 12, and was about 12 foot wide by 200 foot long, and three (3) feet deep at the lowest point of repair.

In total, about 252 cubic yards of replacement radon barrier soil material was taken from the on-site stockpile, and an additional 150 cubic yards of basalt Riprap cover was placed to help fill in where the previous water action had transported material downgradient. Repair area locations and dimensions, repair area, depth of repair and estimated volumes of replacement radon barrier material are provided in Table 1. Locations of the Radon Barrier Repair Areas are marked in the field with a vertical 2-inch diameter pipe, painted white with a green band near the top. These markers are placed near the center of the repair areas.

Table 1. Location of Radon Barrier Repair Sites, Size, Volumes and Depths of Repairs

No.	Repair Site	Latitude	Longitude	Bucket Count	Approx. Volume - Yds^3	Repair Dimensions (ft x ft)		Repair Area - Ft^2	Max. Depth of Repair (feet)
R8-W	Drains No. 8, 9, 10 - W 45'	N35^0 14.499'	W107^0 52.055'	36	108	32	170	5,440	4
R11-W	Drain No. 11 - W 35'	N35^0 14.497'	W107^0 51.842'	17	51	22	160	3,520	3
R11-E	Drain No. 11 - E 20'	N35^0 14.501'	W107^0 51.828'	10	30	12	20	240	3
R12-W	Drain No. 12 - W 25'	N35^0 14.484'	W107^0 51.764'	21	63	12	200	2,400	3
	TOTALS			31	**93**			**2,640**	

Note: Volumes estimated using front-end loader bucket counts and 3 cubic yard volume per bucket

A series of photographs showing the details of the Radon Barrier repair methods and procedures are provided in Appendix A.

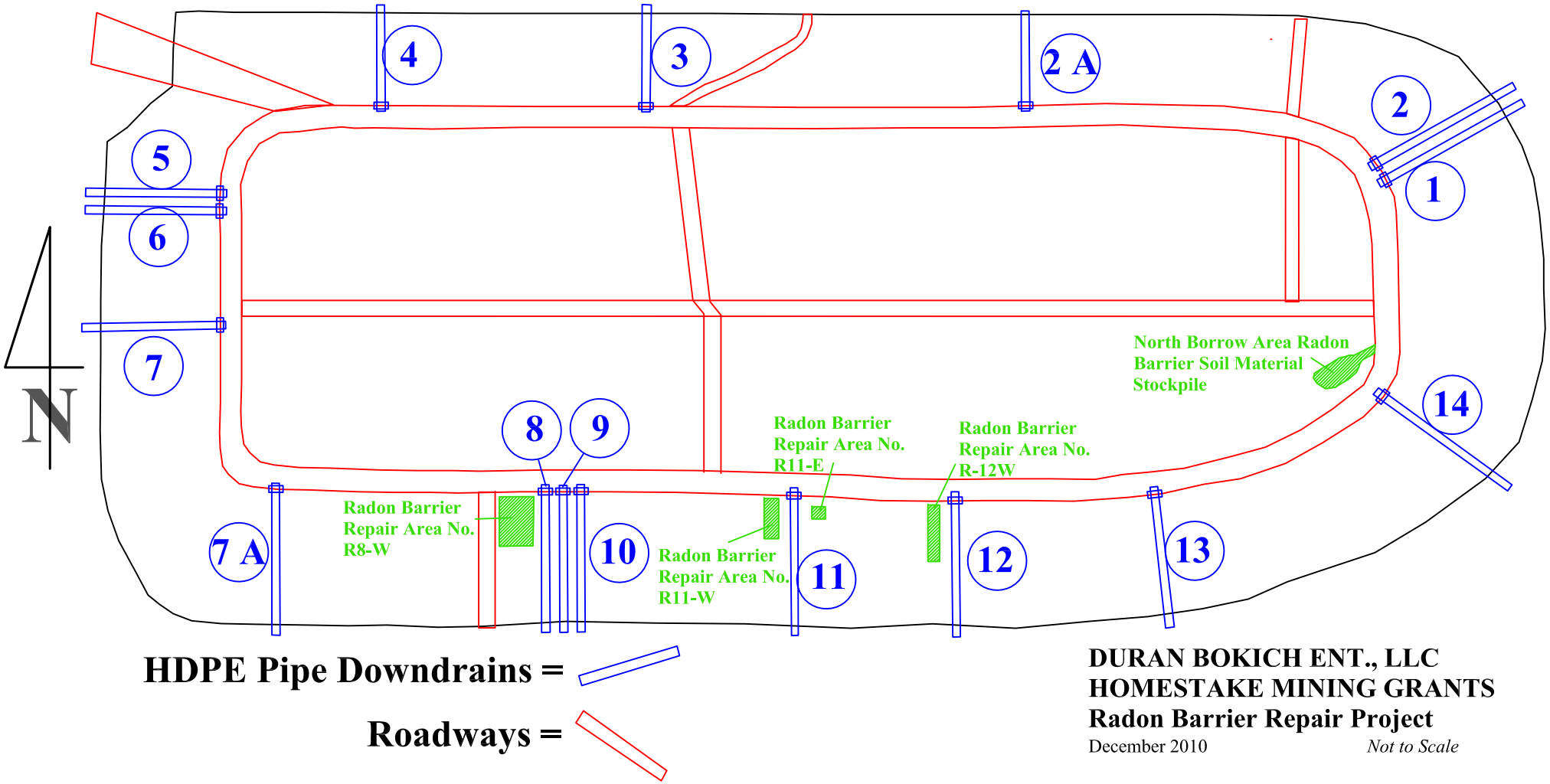
References

[1] Homestake Grants Project Stormwater Downdrains Completion Report, December 2010. John C. Bokich, Duran Bokich Enterprises, LLC, PO Box 1474, Elephant Butte, NM 87935. jbokich@dbe-usa.com, Ph: 575.740.2840

[2] Final Radon Barrier Design for the Large Tailings Pile, Homestake Mining Company of California, June 1995. Environmental Restoration Group, Inc., 12809 Arroyo De Vista NE, Albuquerque, NM 87111

[3] Kleinfelder. Joe Aguirre and David Gay. 9019-A Washington NE, Albuquerque, NM 87113. Ph: 505.344.7373

Figure 1. Radon Barrier Repair Area Locations



HDPE Pipe Downdrains =

Roadways =

DURAN BOKICH ENT., LLC
HOMESTAKE MINING GRANTS
Radon Barrier Repair Project
December 2010 *Not to Scale*

APPENDIX A

PHOTOGRAPHS OF HOMESTAKE GRANTS LARGE TAILINGS PILE

RADON BARRIER REPAIR PROJECT

COMPLETION REPORT

Figure 2. Example of area prior to downdrain replacement and radon barrier repair where leakage from joints in CSP caused erosion of radon barrier material below riprap. Repair Area No. R8-W.

Figure 3. Radon Barrier Repair Area No. R12-W showing lay-back of riprap, excavation to deepest depth of erosion prior to backfilling, compaction and repair.

Figure 4. Mixing water into radon barrier soil material with front-end loader and excavator to increase material moisture.

Figure 5. Radon Barrier Repair Site No. R11-W, performing density and moisture test with Troxler nuclear density gauge. Sheepsfoot roller compactor in background and excavator for adding additional lifts.

Figure 6. Replacement of radon barrier material on site No. R12-W with excavator, with water tank and sheepsfoot compactor to achieve moisture and density requirements.

Figure 7. Replacing riprap over compacted and graded radon barrier repair area. Radon barrier repair area No. R11-E.

Figure 8. Radon Barrier Area No. R8-W with replacement of radon barrier, in compliance with compaction specifications, complete and ready for reinstallation of riprap.

Figure 9. Repair Area No. R8-W completed with photo from above.

Figure 10. Repair Area No. R8-W completed with photo from below.

Figure 11. Repair Area No. R11-W completed with photo from above.

Figure 12. Repair Area No. R11-W completed with photo from below.

Figure 13. Radon Barrier repair area No. R11-E complete with white and green site marker. Photo from above.

Figure 14. Radon Barrier repair area No. R11-E complete with white and green site marker. Photo from below.

Figure 15. Repair Area No. R12-W completed with photo from above.

Figure 16. Repair Area No. R12-W completed with photo from below.

APPENDIX B

HOMESTAKE GRANTS PROJECT

DATA SHEETS OF FIELD DENSITIES AND FIELD MOISTURE MEASUREMENTS TAKEN BY KLEINFELDER ENGINEERING

RECOMPACTED RADON BARRIER REPAIR AREAS PRIOR TO RIPRAP PLACEMENT

KLEINFELDER
Bright People. Right Solutions.

Daily Field Report

Project Name: Homestake Tailings
Date: 11-30-10
Project No.: 16977 07-4
Bldg. Permit No.:
DFR/Report No.: —
Project Address: Grants, NM
Time Arrived: 10:00 Am
Client: Homestake
Contractor:
Time Departed: 4:00 pm
Equipment Observed:
Travel Time: 3.0
Weather: clear / 40°
Mileage: 160
Reviewed By:
Date Reviewed:

Types of Tests/Observations

☐ AC Pavements	☐ Fabrication Plant	☐ Masonry	☐ Sample Pickup	☐ Other
☐ Anchor Bolts	☐ Fireproofing	☐ Metal Decking	☑ Soil / Aggregates	
☐ Batch Plant	☐ Foundations	☐ Pre-Post Tension	☐ Steel Erection	
☐ Concrete	☐ HS Bolting	☐ Reinforcing Steel	☐ Welding	

Documents Referenced: Densities on Backfill For Homestake Tailing Radon Barrier Repair on south slope, 45'E. from Pipe Downdrain #11 on site Dan Kump w/ Homestake

Observations/Remarks: Drove From Albuquerque, NM to Homestake Job site.

11:00 - 12:00 pm Orientation / safety Class @ Homestake

12:30 1- Density on Backfill Lift # 1
Density is in compliance w/ plans + specs.

1:30 - 1- Density on Backfill Lift #2
Density is in compliance w/ plans + specs.

3:30 1- Density on Backfill Lift #3
Density is in compliance w/ plans + specs.

4:00 - paper work + Returning Monitor Badge

Drove Back To Albuquerque, NM.

NOTE: one man Jumping Jack used To compact Material

☐ Report items comply ☐ Report items do not comply ☐ Report items comply with exceptions ☐ In progress / Not complete

Acknowledged by: Dan Kump
Representing: Homestake

Jose A Aguirre
Kleinfelder Representative *Signature*

Kleinfelder Representative *Print Name*

Page ____ of ____

MAT-10 REV 05/08

KLEINFELDER
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In Place Moisture Density
ASTM D6938

9019 Washington NE, Building A
Albuquerque, NM 87113
(505) 344-7373

Project Number	Project Name	Project Location	Client / Contractor
16977	Homestake Tailings	Grants, NM	Homestake

Gauge No:	Make and Model:	Date:	Total Time
31910	TROXLER 3440	11-30-10	On Site: See DFR Travel: See DFR

Compaction Requirements:
Density 100% Moisture N/A

Sample No.	USCS	Lab. Max. Dry Density	Lab. OMC	Test Method ASTM
TFS S-End	CL	101-8	18-6	D-698

Area Being Tested

- Side Walk ☐
- Curb & Gutter ☐
- Footing ☐
- Slab on Grade ☐
- Trench ☐
- Road Way ☐
- Man Hole ☐
- Parking Lot ☐

Other: Radon Barrier Repair AREA 45' E. From Pipe Downdrain #11

Field Technician:

Report Given To:

Pursuant to 2006 IBC Section 1704, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/does not meet), if provided. Tests were conducted in general accordance with generally accepted testing procedures practiced within the site area at the time tests were performed.

Test No.	Test Location (Station # / Grid #)	Probe Depth (inches)	Test Elevation (feet)	Test wet Density (lbs/cf)	Water Content (lbs/cf)	Lab Max Density (lbs/cf)	Test Dry Density (lbs/cf)	Test Moisture (%)	Percent of Lab Density	USCS	Compliant or Noncompliant
1	N 35° 14. 495 W 107° 51. 827	6"	Backfill Lift #1	115-8	10.1	101.8	105-7	9.6	103.8	CL	Compliant
2	N 35° 14. 498 W 107° 51. 828	6"	Backfill Lift #2	121.1	17.6	101-8	103.5	17.0	101.7	CL	Compliant
3	N 35° 14. 490 W 107° 51. 827	6"	Backfill Lift #3	120-6	17.2	101-8	103.5	16.6	101-6	CL	Compliant

Observations and Remarks:
Page: 1 Of: 1

DS = 2574 MS - 712

Densities Taken below the Top 18" of the Radon Barrier

Requirments are 100% Compaction As per 1996 Homestake Tailings SPCES

OFFICE USE ONLY

Reviewed By and Date:	Report No.:	Kleinfelder Representative

KLEINFELDER
Bright People. Right Solutions.

Daily Field Report

Project Name: Homestake Tailings
Date: 12-1-10
Project No.: 16977
Bldg. Permit No.:
DFR/Report No.:
Project Address: Grants, NM
Time Arrived: 10:00 Am
Client: Homestake
Contractor:
Time Departed: 4:00 pm
Equipment Observed:
Travel Time: 3.0 hrs
Weather: Clear / 50°
Mileage: 160
Reviewed By:
Date Reviewed:

Types of Tests/Observations

☐ AC Pavements	☐ Fabrication Plant	☐ Masonry	☐ Sample Pickup	☐ Other
☐ Anchor Bolts	☐ Fireproofing	☐ Metal Decking	☒ Soil / Aggregates	
☐ Batch Plant	☐ Foundations	☐ Pre-Post Tension	☐ Steel Erection	
☐ Concrete	☐ HS Bolting	☐ Reinforcing Steel	☐ Welding	

Documents Referenced: Densities on Backfill For Homestake Tailings Radon Barrier Repair Located 45' E. From Pipe Downdrain #11 on site Dan Kump w/ Homestake

Observations/Remarks: Drove from Albuquerque, NM. to Homestake Job site

10:00 Am 1-Density on Backfill Lift #4
Density is in compliance w/ Plans and specs.

1:30 pm 1- Density on Final Backfill Lift
Density is in compliance w/ Plans and specs.

4:00 pm Paper work + Returning Monitor Badge to Homestake

NOTE: one man Jumping Jack used To Compact Material

☐ Report items comply ☐ Report items do not comply ☐ Report items comply with exceptions ☐ In progress / Not complete

Acknowledged by: Dan Kump
Representing: Homestake

Kleinfelder Representative Signature

Jose Aguirre
Kleinfelder Representative Print Name

Page ___ of ___

MAT-10 REV 05/08

KLEINFELDER
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In Place Moisture Density
ASTM D6938

9019 Washington NE, Building A
Albuquerque, NM 87113
(505) 344-7373

Project Number	Project Name	Project Location	Client / Contractor
16977	Homestake Tailings	Grants, NM	Homestake

Gauge No:	Make and Model:	Date:	Total Time
31910	TROXLER 3440	12-1-10	On Site: See DFR Travel: See DFR

Compaction Requirements:
Density 95% Moisture N/A

Sample No.	USCS	Lab. Max. Dry Density	Lab. OMC	Test Method ASTM
TFS S.End	CL	101.8	18.6	D-698

Area Being Tested

Side Walk	☐	Trench	☐
Curb & Gutter	☐	Road Way	☐
Footing	☐	Man Hole	☐
Slab on Grade	☐	Parking Lot	☐

Other: Radon Barrier Repair Area 45' E From Pipe Downdrain #11

Field Technician: Jose Aguirre

Report Given To: Dan Kump w/Homestake

Pursuant to 2006 IBC Section 1704, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/does not meet), if provided. Tests were conducted in general accordance with generally accepted testing procedures practiced within the site area at the time tests were performed.

Test No.	Test Location (Station # / Grid #)	Probe Depth (inches)	Test Elevation (feet)	Test wet Density (lbs/cf)	Water Content (lbs/cf)	Lab Max Density (lbs/cf)	Test Dry Density (lbs/cf)	Test Moisture (%)	Percent of Lab Density	USCS	Compliant or Noncompliant
1	N 35° 14. 501 W 107° 57. 828	6"	Backfill Lift 4	117.8	19.7	101.8	98.1	20.1	96.3	CL	Compliant
2	N 35° 14. 499 W 107° 57. 828	6"	Final Backfill	117.8	19.0	101.8	98.7	19.3	97.0	CL	Compliant

Observations and Remarks:
Page: 1 Of: 1 DS = 2572 MS = 714

Densities Taken on the Top 18" of the Radon Barrier
Requirments are 95% Compaction As per 1996 Homestake Tailings Specs.

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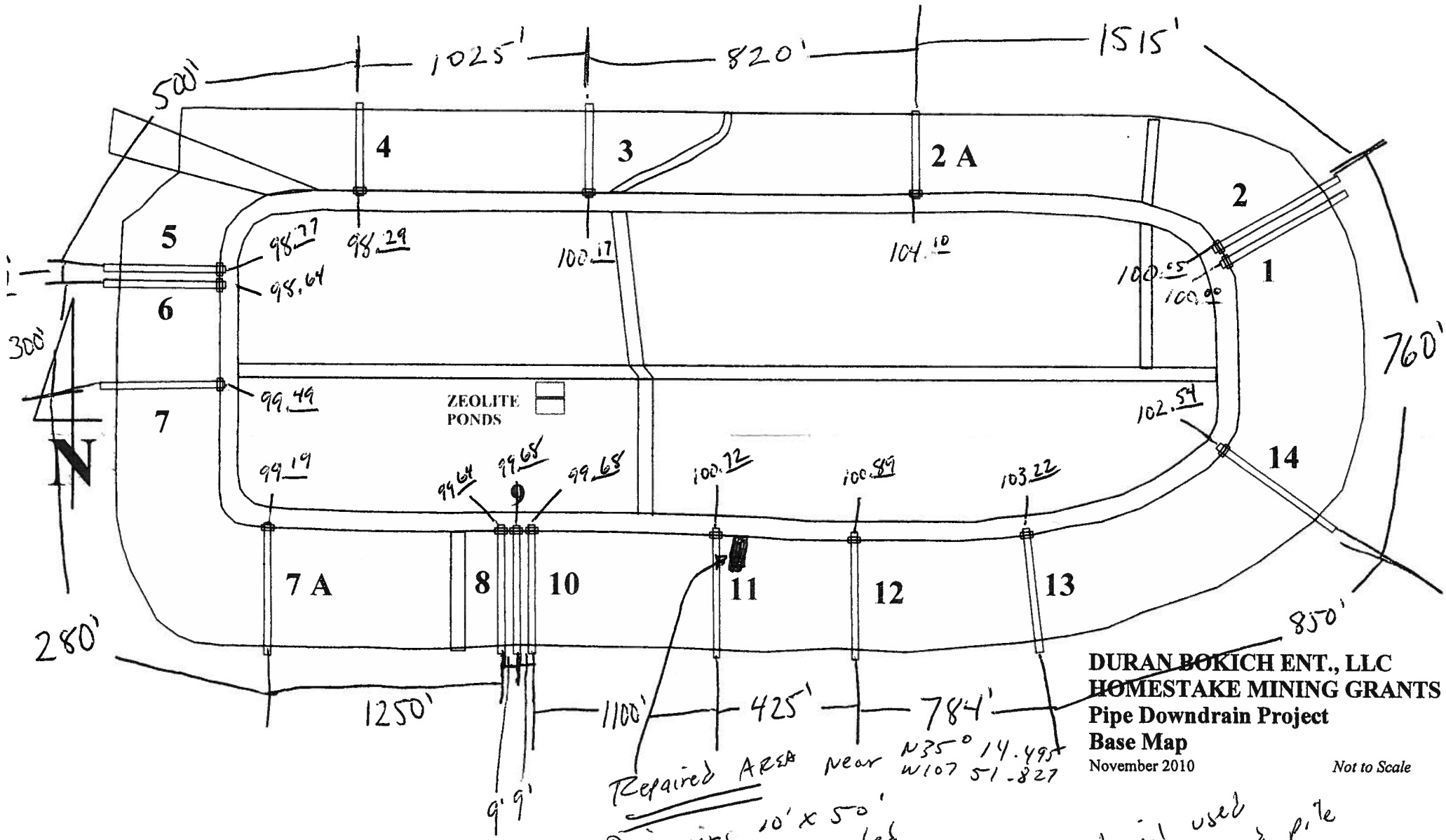
Reviewed By and Date:	Report No.:	Kleinfelder Representative

16977 07-4 Homestake Tailings
Location: 45' E. from Pipe Downdrain #11



DURAN BOKICH ENT., LLC
HOMESTAKE MINING GRANTS
Pipe Downdrain Project
Base Map
November 2010

Not to Scale

Repaired AREA near N35° 14.495 W107 51.827
Dimensions 10' x 50'
40" of Fill Needed
started on 11-30-10
completed on 12-1-10

Material used from South end pile

KLEINFELDER
Bright People. Right Solutions.

Daily Field Report

Project Name: Homestake Tailings
Date: 12-2-10
Project No.: 16977
Bldg. Permit No.:
DFR/Report No.:
Project Address: Grants, NM
Time Arrived: 10:00 AM
Client: Homestake
Contractor:
Time Departed: 4:00 pm
Equipment Observed:
Travel Time: 3.0 hrs
Weather: clear / 50°
Mileage: 160
Reviewed By:
Date Reviewed:

Types of Tests/Observations

☐ AC Pavements	☐ Fabrication Plant	☐ Masonry	☐ Sample Pickup	☐ Other
☐ Anchor Bolts	☐ Fireproofing	☐ Metal Decking	☒ Soil / Aggregates	
☐ Batch Plant	☐ Foundations	☐ Pre-Post Tension	☐ Steel Erection	
☐ Concrete	☐ HS Bolting	☐ Reinforcing Steel	☐ Welding	

Documents Referenced: Densities on Backfill For Homestake Tailings Radon Barrier, South Side Slope Near N35°14.495 W107 51.764 on Site Dan Kump w/ Homestake

Observations/Remarks: Drove from Albuquerque, NM to Homestake Job site.
Densities Taken on Repair Area Located 20' E from Pipe Downdrain #12
10:30 1- Density on Backfill Lift #1
Density is in compliance w/ plans and specs.
12:00 1- Density on Backfill Lift #2
Density is in compliance w/ plans and specs.

3:30 pm 1- Density on Backfill Lift #3
Density is in compliance w/ plans and specs.

4:00 Paper work + Returning Monitor Badge to Homestake.

NOTE: Ingersoll Rand 3D 116DX/TF Series Roller Used To Compact Material

☐ Report items comply ☐ Report items do not comply ☐ Report items comply with exceptions ☐ In progress / Not complete

Acknowledged by: Dan Kump
Representing: Homestake

Kleinfelder Representative Signature

Jose A. Aguirre
Kleinfelder Representative Print Name

Page ___ of ___

MAT-10 REV 05/08

KLEINFELDER
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In Place Moisture Density
ASTM D6938

9019 Washington NE, Building A
Albuquerque, NM 87113
(505) 344-7373

Project Number	Project Name	Project Location	Client / Contractor
16977	Homestake Tailings	Grants, NM	Homestake

Gauge No:	Make and Model:	Date:	Total Time
31910	TROXLER 3440	12-2-10	On Site: See DFR Travel: See DFR

Compaction Requirements:
Density 100 % Moisture N/A

Sample No.	USCS	Lab. Max. Dry Density	Lab. OMC	Test Method ASTM
TFS S.End	CL	101-8	18-6	D-698

Area Being Tested

- Side Walk ☐
- Curb & Gutter ☐
- Footing ☐
- Slab on Grade ☐
- Trench ☐
- Road Way ☐
- Man Hole ☐
- Parking Lot ☐

Other: Radon Barrier on South slope 20' W from Pipe Downdrain #12

Field Technician: Jose A. Aguirre

Report Given To: Dan Kump w/ Homestake

Pursuant to 2006 IBC Section 1704, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/does not meet), if provided. Tests were conducted in general accordance with generally accepted testing procedures practiced within the site area at the time tests were performed.

Test No.	Test Location (Station # / Grid #)	Probe Depth (inches)	Test Elevation (feet)	Test wet Density (lbs/cf)	Water Content (lbs/cf)	Lab Max Density (lbs/cf)	Test Dry Density (lbs/cf)	Test Moisture (%)	Percent of Lab Density	USCS	Compliant or Noncompliant
1	N 35° 14. 495 W 107° 51. 764	6"	Backfill Lift #1	114-1	8-8	101-8	105-3	8-4	103-5	CL	Compliant
2	N 35° 14. 484 W 107° 51. 764	6"	Backfill Lift #2	121-9	16-5	101-8	105-4	15-6	103-6	CL	Compliant
3	N 35° 14. 499 W 107° 51. 763	6"	Backfill Lift #3	120-1	17-5	101-8	102-7	17-0	100-8	CL	Compliant

Observations and Remarks:
Page: 1 Of: 1 DS = 2561 MS = 649

Densities Taken below the Top 18" of the Radon Barrier
Requirements are 100 % Compaction As per 1996 Homestake Tailings Specs.

OFFICE USE ONLY

Reviewed By and Date:	Report No.:	Kleinfelder Representative

KLEINFELDER
Bright People. Right Solutions.

Daily Field Report

Project Name: Homestake Tailings
Date: 12-3-10
Project No.: 16977
Bldg. Permit No.:
DFR/Report No.: —
Project Address: Grants, NM
Time Arrived: 8:30 Am
Client: Homestake
Contractor:
Time Departed: 2:30 pm
Equipment Observed:
Travel Time: 3.0 hrs.
Weather: Clear / 55°
Mileage: 160
Reviewed By:
Date Reviewed:

Types of Tests/Observations

☐ AC Pavements	☐ Fabrication Plant	☐ Masonry	☐ Sample Pickup	☐ Other
☐ Anchor Bolts	☐ Fireproofing	☐ Metal Decking	☒ Soil / Aggregates	
☐ Batch Plant	☐ Foundations	☐ Pre-Post Tension	☐ Steel Erection	
☐ Concrete	☐ HS Bolting	☐ Reinforcing Steel	☐ Welding	

Documents Referenced: Densities on Backfill For Homestake Tailings Radon Barrier Repair Located ~~4.5~~ 20'W From Pipe Downdrain #12 on site Dan Kump w/ Homestake

Observations/Remarks: Drove From Albuquerque, NM to Homestake Job site
@ 9:30 Am 1- Density on Backfill Lift #4
Density is in Compliance w/plans and specs.
@ 12:30 pm 1- Density on Backfill Lift Final
Density is in compliance w/ Plans and specs.

@ 2:00 pm Paper work + Returning Monitor Badge To Homestake.

NOTE: Ingersoll Rand 3D 116DX/TF Series Roller Used To Compact Mat.
(No More Densities Needed Today.
David Guy w/ Kleinfelder will be on site Next Monday 12-6-10)

☐ Report items comply ☐ Report items do not comply ☐ Report items comply with exceptions ☐ In progress / Not complete

Acknowledged by: Dan Kump
Representing: Homestake

Kleinfelder Representative Signature

Jose A. Aguirre
Kleinfelder Representative Print Name

Page ____ of ____

MAT-10 REV 05/08

KLEINFELDER
Bright People. Right Solutions.

In Place Moisture Density
ASTM D6938

9019 Washington NE, Building A
Albuquerque, NM 87113
(505) 344-7373

Project Number	Project Name	Project Location	Client / Contractor
16977	Homestake Tailings	Grants, NM	Homestake

Gauge No:	Make and Model:	Date:	Total Time
31910	TROXLER 3440	12-3-10	On Site: See DFR Travel: See DFR

Compaction Requirements:
Density 95 % Moisture N/A

Sample No.	USCS	Lab. Max. Dry Density	Lab. OMC	Test Method ASTM
TFI S. End	CL	101.8	18.6	D-698

Area Being Tested

Side Walk	☐	Trench	☐
Curb & Gutter	☐	Road Way	☐
Footing	☐	Man Hole	☐
Slab on Grade	☐	Parking Lot	☐

Other: Radon Barrier Repair Area 20' E. From Pipe Downdrain #12

Field Technician: J. Aguirre

Report Given To: Dan Kunf in/Homestake

Pursuant to 2006 IBC Section 1704, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/does not meet), if provided. Tests were conducted in general accordance with generally accepted testing procedures practiced within the site area at the time tests were performed.

Test No.	Test Location (Station # / Grid #)	Probe Depth (inches)	Test Elevation (feet)	Test wet Density (lbs/cf)	Water Content (lbs/cf)	Lab Max Density (lbs/cf)	Test Dry Density (lbs/cf)	Test Moisture (%)	Percent of Lab Density	USCS	Compliant or Noncompliant
1	N 35° 14 497 W 107° 51. 744	6"	Backfill Lift #4	125.0	21.6	101.8	103.4	20.9	101.6	CL	Compliant
2	N 35° 14. 479 W 107° 51 764	6"	Final Backfill	125.9	21.4	101.8	104.5	20.5	102.7	CL	Compliant

Observations and Remarks:
Page: 1 Of: 1 DS-2560 MS = 696

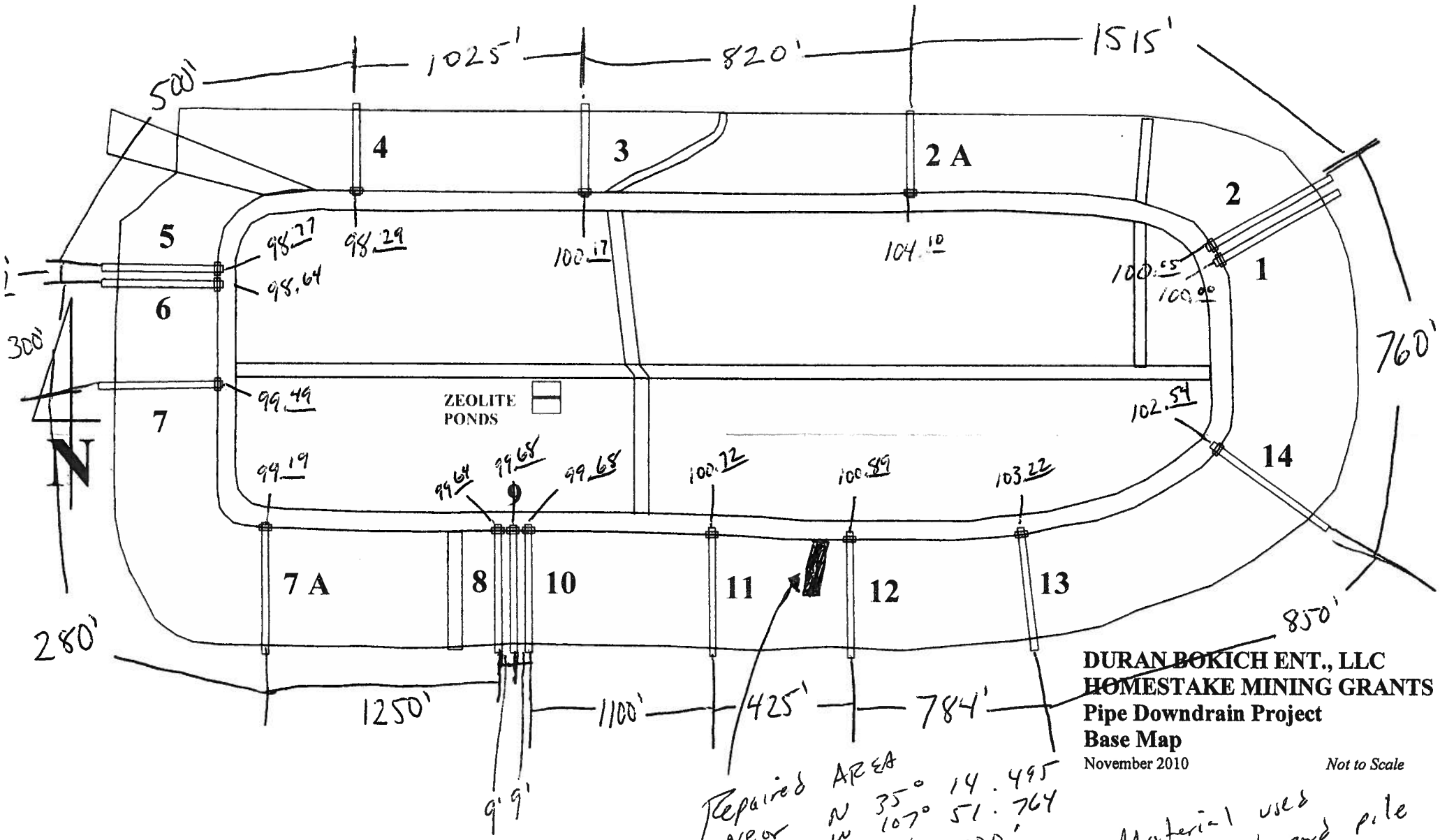
Densities Taken on the Top 18" of the Radon Barrier
Requirments are 95% Compaction As per 1996 Homestake Tailings Spces.

OFFICE USE ONLY

Reviewed By and Date:	Report No.:	Kleinfelder Representative

16977 Homestake Tailings

Location: 20' W from Pipe Downdrains #12



DURAN BOKICH ENT., LLC
HOMESTAKE MINING GRANTS
Pipe Downdrain Project
Base Map
November 2010 *Not to Scale*

Repaired AREA
Near N 35° 14.495
W 107° 51.764
Dimensions 15' X 100'
40" of Fill Needed
Started on 12-2-10
Completed on 12-3-10

Material used
from south end pile

KLEINFELDER
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Daily Field Report

Project Name: Home STake Tailings
Date: 12/6/10
Project No.: 16977 07-4
Bldg. Permit No.: —
DFR/Report No.: —
Project Address: GrANTS, NM
Time Arrived: 10:00 AM
Client: Home STake
Contractor:
Time Departed:
Equipment Observed: Track Hoe, Loader, SHeeps foot Roller, water Truck
Travel Time: 3.0 HRS
Weather: Warm + Clear 57°F
Mileage:
Reviewed By:
Date Reviewed:

Types of Tests/Observations

☐ AC Pavements	☐ Fabrication Plant	☐ Masonry	☐ Sample Pickup	☐ Other
☐ Anchor Bolts	☐ Fireproofing	☐ Metal Decking	☒ Soil / Aggregates	
☐ Batch Plant	☐ Foundations	☐ Pre-Post Tension	☐ Steel Erection	
☐ Concrete	☐ HS Bolting	☐ Reinforcing Steel	☐ Welding	

Documents Referenced: Densities on S. Slope Radon Barrier Repair 20' S.W. of Down Drain #8

Observations/Remarks: Drove from Alb. office arrived at HomeStake office at 10:00 AM, 10:00 AM – 11:00 AM, orientation/safety class at HomeStake from 11:00 AM Till 12:00, observation on backfill, went over paper work of previous Test and calibrated Troxler gauge, THen Crew Broke for LUNCH Till 12:30 pm and CONTINUED Backfill observation TOOK 5 Density Test IN TOTal all Test were IN Compliance, SHUT DOWN at 4:15 pm, Turned Badge IN and Drove Back To Lab IN Alb.

☒ Report items comply ☐ Report items do not comply ☐ Report items comply with exceptions ☐ In progress / Not complete

Acknowledged by: Dan Kump
Representing: HOMESTAKE MINING

David Gay 8171
Kleinfelder Representative *Signature*

DAVID GAY 8171
Kleinfelder Representative *Print Name*

Page ___ of ___

MAT-10 REV 05/08

KLEINFELDER
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Daily Field Report

Project Name: Homestake Tailing
Date: 12/7/10
Project No.: 16977-07-4
Bldg. Permit No.: ——
DFR/Report No.:
Project Address: Grants NM
Time Arrived: 8:45 AM
Client: Homestake
Contractor: —
Time Departed:
Equipment Observed: Track Hoe, Loader, Sheeps foot Roller, water wagon
Travel Time: 3 HRS.
Weather: warm + clear 42°F windy
Mileage:
Reviewed By:
Date Reviewed:

Types of Tests/Observations

☐ AC Pavements	☐ Fabrication Plant	☐ Masonry	☐ Sample Pickup	☐ Other
☐ Anchor Bolts	☐ Fireproofing	☐ Metal Decking	☒ Soil / Aggregates	
☐ Batch Plant	☐ Foundations	☐ Pre-Post Tension	☐ Steel Erection	
☐ Concrete	☐ HS Bolting	☐ Reinforcing Steel	☐ Welding	

Documents Referenced: Densities on South side Downslope 45' west of #8 Down Drain pipe and various Location Downslope

Observations/Remarks: Drove from Alb. and arrived at Homestake Mine office at 8:45AM signed out Dosimeter Badge and went to work Area, Contractor Had 3Rd Lift ready for Test Took 6 Test, all were IN Compliance observed contractor put Top Lift on and Tested FSG all 6 test were IN Compliance contractor Took a Quick Lunch and then I observed them Blend stockpile and Hydrate while Removing Rip-Rap from Damaged area 25' S.W. of #11 Downslope Drain, observed until 3:30pm and will Return for First set of Test at 9AM.

☒ Report items comply ☐ Report items do not comply ☐ Report items comply with exceptions ☐ In progress / Not complete

Acknowledged by: Dan Kump
Representing: HOMESTAKE Mining

David Gay 8171
Kleinfelder Representative Signature
DAVID GAY 8171
Kleinfelder Representative Print Name

Page ___ of ___

MAT 10 REV 05/08

KLEINFELDER
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In Place Moisture Density
ASTM D6938

9019 Washington NE, Building A
Albuquerque, NM 87113
(505) 344-7373

Project Number	Project Name	Project Location	Client / Contractor
16977	Homestake Tailings	Grants N.M.	Homestake

Gauge No:	Make and Model:	Date:	Total Time On Site:	Travel:
31910	Troxler 3440	12/7/10		3.0 HR

Compaction Requirements:
Density 100% Moisture N/A

Sample No.	USCS	Lab. Max. Dry Density	Lab. OMC	Test Method ASTM
TFS S.Fwd	CL	101.8	18.6	D-698

Area Being Tested
- Side Walk ☐
- Curb & Gutter ☐
- Footing ☐
- Slab on Grade ☐
- Trench ☐
- Road Way ☐
- Man Hole ☐
- Parking Lot ☐

Other: Radon Barrier Repair Area 45' S.W. of #8 Down Drain

Field Technician: David Ay 8171

Report Given To: Kleinfelder A16

Pursuant to 2006 IBC Section 1704, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/does not meet), if provided. Tests were conducted in general accordance with generally accepted testing procedures practiced within the site area at the time tests were performed.

Test No.	Test Location (Station #/ Grid #)	Probe Depth (Inches)	Test Elevation (feet)	Test wet Density (lbs/cf)	Water Content (lbs/cf)	Lab Max Density (lbs/cf)	Test Dry Density (lbs/cf)	Test Moisture (%)	Percent of Lab Density	USCS	Compliant or Noncompliant
1	38' S.W. + 45' S.Side Downslope 3Rd Lift	6"	-6" FSG	119.4	20.1	101.8	99.3	20.2%	97.5%	CL	Comp.
2	45' S.W + 45' S.Side Downslope 3Rd Lift	6"	-6" FSG	124.5	20.6	101.8	103.9	19.8%	102.1	CL	Comp.
3	38' S.W. + 80' S.Side Downslope 3Rd Lift	6"	-6" FSG	120.8	19.2	101.8	101.6	18.9%	99.8	CL	Comp.
4	45' S.W + 80' S.Side Downslope 3Rd Lift	6"	-6" FSG	120.6	20.1	101.8	100.5	20.0%	98.7	CL	Comp.
5	38' S.W. + 110' S.Side Downslope 3Rd Lift	6"	-6" FSG	116.8	19.0	101.8	97.8	19.4%	96.1	CL	Comp.
6	45 S.W. + 140' S.Side Downslope 3Rd Lift	6"	-6" FSG	128.6	21.6	101.8	107.0	20.2%	105.1	CL	Comp
7	35' S.W + 43' S.Side Downslope 4TH Lift	6"	FSG	119.2	21.7	101.8	97.5	22.3	95.8	CL	Comp
8	47' S.W + 43' S.Side Downslope 4TH Lift	6"	FSG	119.2	21.3	101.8	97.9	21.8	96.2	CL	Comp
9	35' S.W + 80' S.Side Downslope 4TH Lift	6"	FSG	119.4	22.2	101.8	97.2	22.8	95.5	CL	Comp
10	47' S.W + 80' S.Side Downslop 4TH Lift	6"	FSG	119.4	20.8	101.8	98.6	21.1	96.9	CL	Comp
11	35' S.W + 120' S.Side Downslop 4TH Lift	6"	FSG	118.0	20.4	101.8	97.6	20.9	95.9	CL	Comp
12	47' S.W. + 120' S.Side Downslop 4TH Lift	6"	FSG	124.9	22.0	101.8	102.9	21.4	101.1	CL	Comp

Observations and Remarks:
Page: 1 of: 2 Overall Area worked was 30' wide by 170' Long going Downslope Heading South

OFFICE USE ONLY

Reviewed By and Date:	Report No.:	Kleinfelder Representative

KLEINFELDER
Bright People. Right Solutions.

Daily Field Report

Project Name: HomeStake Tailings
Date: 12/8/10
Project No.: 16977 07-4
Bldg. Permit No.:
DFR/Report No.: —
Project Address: Grants N.M.
Time Arrived: 8:50 AM
Client: Home Stake mine
Contractor:
Time Departed: 3:30 PM
Equipment Observed:
Travel Time: 3 HRS
Weather: Cool + clear
Mileage:
Reviewed By:
Date Reviewed:

Types of Tests/Observations

☐ AC Pavements	☐ Fabrication Plant	☐ Masonry	☐ Sample Pickup	☐ Other
☐ Anchor Bolts	☐ Fireproofing	☐ Metal Decking	☒ Soil / Aggregates	
☐ Batch Plant	☐ Foundations	☐ Pre-Post Tension	☐ Steel Erection	
☐ Concrete	☐ HS Bolting	☐ Reinforcing Steel	☐ Welding	

Documents Referenced: Densities on Backfill for Radon Barrier, South Slope 36' S.W. of Down Drain #11

Observations/Remarks: Drove from Alb. Lab arrived at Homestake at 8:50 Am nobody on site waited Till 9:45 AM Contractor Had a flat on Loader Had To Repair, Started on Bottom Half of Downpipe #11 Backfill, Processed Stockpile and Rolled In Till around 11 Am, Took 2 Test, one on Bottom and one at Halfway Point, Contractor broke for Lunch at 12:30 Till 1pm, after Lunch finished up Bottom Half all test were In conformance, Then moved To Top Section about 2:15 PM, Continued processing Stockpile and Rolling Next Lifts In,

☒ Report items comply ☐ Report items do not comply ☐ Report items comply with exceptions ☐ In progress / Not complete

Acknowledged by: [signature]
Representing: Duran Bokich Ent. / Homestake

David Gay 8171
Kleinfelder Representative *Signature*

DAVID GAY 8171
Kleinfelder Representative *Print Name*

Page 1 of 1

MAT-10 REV 05/08

KLEINFELDER
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In Place Moisture Density
ASTM D6938

9019 Washington NE, Building A
Albuquerque, NM 87113
(505) 344-7373

Project Number	Project Name	Project Location	Client / Contractor
16977	HomeStake Tailing	Grants NM	HomeStake

Gauge No:	Make and Model:	Date:	Total Time On Site:
31910	Troxler 3440	12/8/10	Travel: 3 HRS

Compaction Requirements:
Density 100% ↑ Moisture NA

Sample No.	USCS	Lab. Max. Dry Density	Lab. OMC	Test Method ASTM
TFS S. End	CL	101.8	18.6	D.698

Area Being Tested
- Side Walk ☐
- Trench ☐
- Curb & Gutter ☐
- Road Way ☐
- Footing ☐
- Man Hole ☐
- Slab on Grade ☐
- Parking Lot ☐

Other: Radon Barrier Repair Area 31' S.W. from Down Drain #11

Field Technician: David Gray 8171
Report Given To: Kleinfelder Alb

Pursuant to 2006 IBC Section 1704, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/does not meet), if provided. Tests were conducted in general accordance with generally accepted testing procedures practiced within the site area at the time tests were performed.

Test No.	Test Location (Station # / Grid #)	Probe Depth (inches)	Test Elevation (feet)	Test wet Density (lbs/cf)	Water Content (lbs/cf)	Lab Max Density (lbs/cf)	Test Dry Density (lbs/cf)	Test Moisture (%)	Percent of Lab Density	USCS	Compliant or Noncompliant
1	32' S.W. + 145' SE of Down Pipe #11	6"	1st Lift -24" FSG	122.9	17.3	101.8	105.6	16.4%	103.7	CL	Compliant
2	32' S.W. + 95' SE of Down Pipe #11	6"	1st Lift -24" FSG	128.1	16.0	101.8	112.1	14.3%	110.1	CL	Compliant
3	32' S.W. + 145' S.E of Down Pipe #11	6"	2nd Lift -12' FSG	124.6	19.0	101.8	105.6	18.0%	103.7	CL	Compliant
4	32' S.W. + 95' S.E. of Down Pipe #11	6"	2nd Lift -12' FSG	126.5	19.5	101.8	107.0	18.2%	105.1	CL	Compliant
5	32' SW + 145' S.E. of Down Pipe #11	6"	FSG	119.5	20.2	101.8	99.3	20.3%	97.5	CL	Compliant
6	32' S.W. + 95' S.E. of Down Pipe #11	6"	FSG	118.5	20.2	101.8	98.3	20.5%	96.6	CL	Compliant
7	32' SW + 50' SE of Down Pipe #11	6"	1st Lift -20" FSG	115.9	13.2	101.8	102.7	12.9%	100.9	CL	Compliant

Observations and Remarks:
Page: 1 Of: 1 18" and Below of FSG 100% or better compaction Required ~~at~~ and above 18" - 95% or better compaction -

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Reviewed By and Date:	Report No.:	Kleinfelder Representative

KLEINFELDER
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In Place Moisture Density
ASTM D6938

9019 Washington NE, Building A
Albuquerque, NM 87113
(505) 344-7373

Project Number	Project Name	Project Location	Client / Contractor
16977	Homestake Tailing	Grants NM	Home Stake

Gauge No:	Make and Model:	Date:	Total Time On Site:	Travel:
31910	Troxler 3440	12/6/10		3HRS

Compaction Requirements:
Density 100% ↑ Moisture N/A

Sample No.	USCS	Lab. Max. Dry Density	Lab. OMC	Test Method ASTM
TFS S.End	CL	101.8	18.6	D-698

Area Being Tested

Side Walk	☐	Trench	☐
Curb & Gutter	☐	Road Way	☐
Footing	☐	Man Hole	☐
Slab on Grade	☐	Parking Lot	☐

Other: Radon Barrier Repair Area
40'-45' South of #8 Drain pipe

Field Technician: David Gay 8171

Report Given To: Dan Kump W/Home Stake

Pursuant to 2006 IBC Section 1704, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/does not meet), if provided. Tests were conducted in general accordance with generally accepted testing procedures practiced within the site area at the time tests were performed.

Test No.	Test Location (Station # / Grid #)	Probe Depth (inches)	Test Elevation (feet)	Test wet Density (lbs/cf)	Water Content (lbs/cf)	Lab Max Density (lbs/cf)	Test Dry Density (lbs/cf)	Test Moisture (%)	Percent of Lab Density	USCS	Compliant or Noncompliant
1	40' S. Side #8 Drain Pipe 45' E. Downslope	6"	1ST Lift -38" FSG	129.0	19.6	101.8	109.4	17.9%	107.5	CL	Comp.
2	40' S. Side #8 Drain Pipe 80' E. Downslope	6"	1ST Lift -32" FSG	128.6	19.6	101.8	109.0	18.0%	100.9	CL	Comp.
3	45' S. Side #8 Drain Pipe 50' E. Downslope	6"	2nd Lift -24" FSG	127.0	19.2	101.8	107.8	17.8%	105.9	CL	Comp.
4	45' S. Side #8 Drain Pipe 85' E. Downslope	6"	2nd Lift -20" FSG	126.0	19.8	101.8	106.2	18.6%	104.3	CL	Comp
5	45' S. Side #8 Drain Pipe 110' E. Downslope	6"	2nd Lift -12" FSG	110.5	10.9	101.8	99.6	10.9%	97.8	CL	Comp
6											

Observations and Remarks:
Page: Of: ~~DS 25 74~~ ~~MS 112~~ DG8171

Densities Taken Below THe Top 18" of Radon Barrier Requirment are 100% Compaction As per 1996 HomeStake Specs

OFFICE USE ONLY

Reviewed By and Date:	Report No.:	Kleinfelder Representative

KLEINFELDER
Bright People. Right Solutions.

Daily Field Report

Project Name: Home STake Tailing
Date: 12/9/10
Project No.: 16977 07-4
Bldg. Permit No.: ——
DFR/Report No.:
Project Address: GrANTS NM
Time Arrived: 7:45 AM
Client: Home STake
Contractor: ——
Time Departed:
Equipment Observed: Track Hoe, Loader, SHeepsfoot Roller, water wagon
Travel Time: 3 HRS
Weather: Cool + clear
Mileage:
Reviewed By:
Date Reviewed:

Types of Tests/Observations

☐ AC Pavements	☐ Fabrication Plant	☐ Masonry	☐ Sample Pickup	☐ Other
☐ Anchor Bolts	☐ Fireproofing	☐ Metal Decking	☒ Soil / Aggregates	
☐ Batch Plant	☐ Foundations	☐ Pre-Post Tension	☐ Steel Erection	
☐ Concrete	☐ HS Bolting	☐ Reinforcing Steel	☐ Welding	

Documents Referenced: DeNSities ON Radon Barrier Backfill and Repair 35' S.W. + 50' S.E. of Downslope Drain #11

Observations/Remarks: Drove from Alb To Homestake mine IN Grants N.M. arrived at 7:45AM Signed IN and went up TO JobSite Took 1ST TeST at 8:15AM TeST WAS IN Compliance, observed CONTracTor Processing StockPile and fill placement of final Lift all TeST were IN Compliance finisHed at 10:00 WENT TO HomeSTake office signed OUT and TurNed IN Badge.

☒ Report items comply ☐ Report items do not comply ☐ Report items comply with exceptions ☐ In progress / Not complete

Acknowledged by: [signature]
Representing: Durkee Bokich Ent., - Homestake

David Gay 8171
Kleinfelder Representative *Signature*

DAVID GAY 8171
Kleinfelder Representative *Print Name*

Page 1 of 1

KLEINFELDER
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In Place Moisture Density
ASTM D6938

9019 Washington NE, Building A
Albuquerque, NM 87113
(505) 344-7373

Project Number	Project Name	Project Location	Client / Contractor
16977	Homestake Tailing	Grants N.M	Homestake

Gauge No:	Make and Model:	Date:	Total Time On Site:
319110	Troxler 3440	12/9/16	Travel: 3HRS

Compaction Requirements:
Density 100% Moisture NA

Sample No.	USCS	Lab. Max. Dry Density	Lab. OMC	Test Method ASTM
TFS. S End	CL	101.8	18.6	D-698

Area Being Tested

Side Walk	☐	Trench	☐
Curb & Gutter	☐	Road Way	☐
Footing	☐	Man Hole	☐
Slab on Grade	☐	Parking Lot	☐

Other: Rocton Barrier Repair Area, 35' SW, of Down Drain #11

Field Technician: David Gay 8171

Report Given To: Kleinfelder Alb

Pursuant to 2006 IBC Section 1704, the results presented in this report are for the exclusive use of the client and the registered design professional in responsible charge. The results apply only to the samples tested. If changes to the specifications were made and not communicated to Kleinfelder, Kleinfelder assumes no responsibility for pass/fail statements (meets/does not meet), if provided. Tests were conducted in general accordance with generally accepted testing procedures practiced within the site area at the time tests were performed.

Test No.	Test Location (Station # / Grid #)	Probe Depth (inches)	Test Elevation (feet)	Test wet Density (lbs/cf)	Water Content (lbs/cf)	Lab Max Density (lbs/cf)	Test Dry Density (lbs/cf)	Test Moisture (%)	Percent of Lab Density	USCS	Compliant or Noncompliant
1	35' SW + 50' S.E. Downslope pipe #11	6"	2nd L.ft -12"	119.9	19.3	101.8	100.6	19.1%	98.9	CL	Compliant
2	35' SW + 50' SE Downslope pipe #11	6"	FSG	121.1	24	101.8	97.1	24.7%	95.4	CL	Compliant

Observations and Remarks:
Page: 1 Of: 1 18" and Below 100% Compaction Required - 18" and above 95% ↑. Required as per Homestake specs

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Reviewed By and Date:	Report No.:	Kleinfelder Representative