JEO-IEST

GEOTECHNICALENGINEERING SERVICES
JOB NO. 1-61003
INVESTIGATION OF 88 RESIDENTIAL LOTS
THE PEAKS @ MARIPOSA RANCH
RIO RANCHO, NEW MEXICO

GEO-TEST, INC. 3204 RICHARDS LANE SANTA FE, NEW MEXICO 87507 (505) 471-1101 FAX (505) 471-2245

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THE TROUGHS, LLC



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December 20, 2016 Job No.1-61003

The Troughs, LLC Mr. Bob Prewitt prewitt@swcp.com

RE: Geotechnical Engineering Services

Investigation of 88 Residential Lots The Peaks @ Mariposa Ranch Rio Rancho, New Mexico

Dear Mr. Prewitt:

Submitted herein is the Geotechnical Engineering Services Report for our investigation of selected Lots within Blocks 2, 3, 4, 5, 7 and 9 of the Peaks @ Mariposa Ranch. The report contains the results of our field investigation and recommendations for remedial earthwork to be performed.

It has been a pleasure to serve you on this project. If you should have any questions, please contact this office.

Respectfully submitted:

Reviewed by:

Robert D Booth,

GEO-TEST, INC.

Patrick Whorton, EI



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INTRODUCTION

This report presents the results of the geotechnical engineering services investigation performed for selected lots within The Peaks @ Mariposa Ranch in Rio Rancho, New Mexico.

The objectives of this investigation were to:

- Evaluate the nature and engineering properties of the subsurface soils underlying the site in order to assess the condition of previously constructed residential lots.
- 2) Provide recommendations for remedial earthwork as necessary with respect to the original geotechnical investigation provided by Geo-Test, Inc. (Job No. 1-60607, dated August 3, 2006).

The investigation includes subsurface exploration, selected soil sampling, laboratory testing of the samples, performing an engineering analysis and preparation of this report.

PROPOSED CONSTRUCTION

A total of 88 residential lots within The Peaks subdivision are included in this investigation. The Lots investigated are as follows:

Block 2 - Lots 1, 6, and 8-10

Block 3 - Lots 1, 2, 4, and 6

Block 4 – Lots 3, 6-8, 11-26, 28, 29, 33, 45-53, and 55-60

Block 5 – Lots 1, 2, 4-8, 10-15, 17-20, and 22-30

Block 7 - Lots 2-11

Block 9 - Lots 1-5

Residential structures will be constructed on each lot and are anticipated to be of wood frame or masonry construction. Structural loads are expected to be light not exceeding 2.0 kips per lineal foot on bearing walls and 20 kips on columns. No basements are planned and slab-on-grade construction will be utilized.

Should structural loads or other project details vary significantly from those outlined above, this firm should be notified for review and revision of recommendations contained herein.

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SITE HISTORY

The original geotechnical investigation of the site was conducted by this firm in 2006, the results of which were presented in our Geotechnical Engineering Services report, Job no. 1-60607, Tract 1A-17 Mariposa Ranch. The earthwork operations at the site began in 2007 with this firm providing the material testing for the project. Earthwork operations were completed in 2007. Since that time, the lots in question have remained dormant.

FIELD EXPLORATION

Eighty-six (86) exploratory borings were drilled to a depth of 10 feet below existing site grade. The locations of the borings are shown on the attached Boring Location Maps, Figures 1-5. During the test drilling, the soils encountered in the borings were continuously examined, visually classified and logged. The boring logs are presented in a following section of this report. Drilling was accomplished by a truck mounted drill rig using 5.5-inch diameter continuous flight hollow stem auger. Standard penetration testing was performed within the borings at five foot intervals or less utilizing an open tube split barrel sampler.

Two lots were inaccessible to our drilling equipment during the time the investigation was conducted. The two lots not investigated and therefore not included within this report are Lots 29 and 54 of Block 4. Once these lots are made accessible, they will be investigated and an addendum to this report will be issued as to the results of that investigation.

SITE CONDITIONS

All of the building pads at the Lots investigated were near finished grade at the time of this investigation. Loose superficial soils were encountered on the surface. Native vegetation has sporadically grown on the lots and wind as well as some water erosion has taken place.

SUBSURFACE SOIL CONDITIONS

As indicated by the exploratory borings, the soils underlying the various Lots consist predominantly of non-plastic silty sands and relatively clean sands which extend to the full depths explored. Although occasional thin lenses of medium plasticity clays were encountered at various depths at some of the boring locations, a significant layer of clay was encountered beneath Lots 7 and 24 of Block 5 at a depth of 3 to 4 feet. The results of the standard penetration testing indicate that the soils underlying most of the pads

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investigated are medium to very dense. The exception was Lot 11 of Block 4 and Lot 4 of Block 5 where loose soils were encountered at a depth of 2.5 to 5 feet below existing grade.

No free groundwater was encountered in the borings and soil moisture contents were generally moderate throughout the depths explored.

CONCLUSIONS AND RECOMMENDATIONS

For all lots investigated, with the exception of Lot 11 within Block 4 and Lots 4, 7, and 24 within Block 5, no overexcavation is required; however, surface preparation should be conducted before any construction begins as recommended in the Site Grading section of this report.

Due to the presence of loose soils, or potentially expansive clays being present near the foundation bearing depth, it is recommended that special site preparation be performed on Lot 11 within Block 4, and on Lots 4, 7, and 24 within Block 5. Detailed recommendations for the special site preparation are presented in the Site Grading section of this report.

Recommendations for foundation and slab design remain unchanged from those presented in the 2006 report 1-60607 entitled Tract 1A-17, Mariposa Ranch. These recommendations remain valid and should be adhered to for all new construction.

Post-construction moisture increases in the supporting soils could cause some differential foundation movements and could create excessive movements, at least in some areas of the site. Therefore, moisture protection is considered critical for the satisfactory performance of the structures and should be reflected in overall site grading and drainage details as recommended in the Moisture Protection section of report 1-60607.

SITE GRADING

The following general guidelines should be included in the project construction specifications to provide a basis for quality control during site grading. It is recommended that all structural fill and backfill be placed and compacted under engineering observation and in accordance with the following:

1) After clearing and grubbing and any required grading, the existing surface soils of all investigated lots within Blocks 2, 3, 4, 5, 7 and 9 (with the exception of Lot 11 within Block 4 and Lots 4, 7, and 24 within Block 5), should be scarified to a depth of 12 inches, moisture conditioned

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within 2 percent of the optimum moisture and compacted to a minimum of 95 percent of maximum dry density as determined in accordance with ASTM D-1557. If additional fill is required to bring eroded pads back to design grade, the preceding moisture conditioning and compaction should be performed at existing grade prior to the placement of structural fill.

- 2) The existing soils underlying the proposed building areas of Lot 11 within Block 4 and Lots 4, 7, and 24 within Block 5, should be overexcavated to such an extent as to provide for a minimum of 3.0 feet of properly compacted structural fill beneath all foundations and floor slabs, or to such an extent as to remove all clay soils, whichever is the greater depth of overexcavation. The limits of the overexcavation should also extend laterally from the foundation perimeters a distance equal to the depth of fill beneath their bases. Any clay encountered during the overexcavation process should be wasted or placed in non-structural areas of the site. Prior to placement of structural fill, the exposed native soils should be moisture conditioned and densified as recommended below.
- 3) The exposed native soils at the base of the excavations should be scarified to a depth of 12 inches and watered as necessary to bring the upper 5 feet as close as practicable to the optimum moisture content or above. Flooding of the excavations will be an acceptable means of achieving the required soil moisture increases. Once the moisture content of the soils has equilibrated and is sufficiently stable for the support of heavy compaction equipment, the bottom of the excavations should be subjected to a minimum of 20 passes with a heavy vibratory roller. The area should then be compacted to a minimum of 95 percent of maximum dry density as determined in accordance with ASTM D-1557.
- 4) The results of this investigation indicate that most of the over-excavated soils will be suitable as structural fill; however, blending of materials or possibly imported fill may be required to meet the specifications for structural fill.
- 5) All structural fill and backfill material should be free of vegetation and debris and contain no rocks larger than 3 inches. The gradation of the material, as determined in accordance with ASTM D-422, should be as follows:

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Sieve Size	Percent Passing
3 inch	100
No. 4	60 - 100
No. 200	15 - 45

- 6) The plasticity index of the structural fill should be no greater than 15 when tested in accordance with ASTM D-4318.
- 7) Fill or backfill, should be placed in 8-inch loose lifts and compacted with approved compaction equipment. Lifts should be reduced to 4-inches if hand held compaction equipment is used. Each lift should be firm and non-yielding.
- 8) All compaction of fill or backfill shall be accomplished to a minimum of 95 percent of the maximum dry density as determined in accordance with ASTM D-1557. The moisture content of the fill or backfill, during compaction, should be within 2 percent of the optimum moisture content.
- 9) Tests for degree of compaction should be determined by the ASTM D-1556 method or ASTM D-6938. Observation and field tests should be carried on during fill and backfill placement by the geotechnical engineer to assist the contractor in obtaining the required degree of compaction. If less than 95 percent is indicated, additional compaction effort should be made with adjustment of the moisture content as necessary until 95 percent compaction is obtained.

CLOSURE

Our conclusions, recommendations and opinions presented herein are:

- 1) Based upon our evaluation and interpretation of the findings of the field and laboratory program.
- 2) Based upon an interpolation of soil conditions between and beyond the explorations.
- 3) Subject to confirmation of the conditions encountered during construction.
- 4) Based upon the assumption that sufficient observation will be provided during construction.

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5) Prepared in accordance with generally accepted professional geotechnical engineering principles and practice.

This report has been prepared for the sole use of The Troughs, LLC, specifically for the remediation of 88 Lots of The Peaks @ Mariposa Ranch in Rio Rancho, New Mexico, and not for use by any third parties.

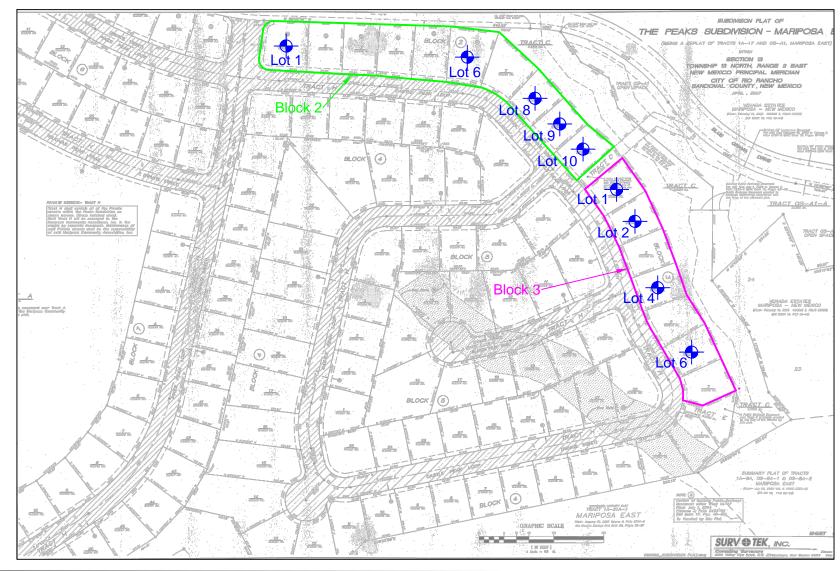
We make no other warranty, either expressed or implied. Any person using this report for bidding or construction purposes should perform such independent investigation as they deem necessary to satisfy themselves as to the surface and subsurface conditions to be encountered and the procedures to be used in the performance of work on this project. If conditions encountered during construction appear to be different than indicated by this report, this office should be notified.

All soil samples will be discarded 60 days after the date of this report unless we receive a specific request to retain the samples for a longer period of time.

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BORING LOCATION MAP



The Peaks @ Mariposa Ranch Lot Investigation Rio Rancho, New Mexico Job No. 1-61003

Figure 1 Blocks 2 & 3



GEOTECHNICAL ENGINEERING
AND MATERIAL TESTING



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 01 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80	
	-			SS	10-11-9 20						
	-			SS	12-11-11 22						- · - - · -
TEST.GDT 12/19/16	5 —			SS	8-11-18 29			SM	SILTY SAND, non-plastic, medium dense to dense, slightly moist, brown	29	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 2.GPJ GEO TEST.GDT 12/19/16	10 —			SS	15-16-17						-·-
1-61003 THE PEAK	-				33				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		
OF TEST BORING	-	_									- · - - · -
100	15 —										

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

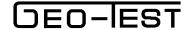
GROUNDWATER DEPTH

NO: Blk 2 - Lot 06 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	20	N blows/ft 40 60 8	80
	-			SS	12-13-12 25						5; ;	
	-			SS	22-18-16 34						34 ;	
EST.GDT 12/19/16	5 — -			SS	13-22-22 44			SM	SILTY SAND, non-plastic, medium dense to dense, slightly moist, brown		44	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 2.GPJ GEO TEST.GDT 12/19/16	-											<u>+</u> - · -
PEAKS 88 LOTS - B	10 —			SS	18-23-25 48						48	+
RING 1-61003 THE	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		· + - · + - ·	+ - · - - - - - -
LOG OF TEST BC	- 15 —	-								· · · -		

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 08 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	6-7-8 15					15 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	-			SS	10-11-10 21					
TEST.GDT 12/19/16	5 —			SS	6-13-15 28			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	28
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 2.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	12-15-17 32					
OF TEST BORING 1-61003 THE PE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 09 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	P007	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N blows/ft 40 60	80
	-			SS	10-11-12 23					23	+ - · + - 	- · - · -
	-			SS	15-16-17 33						; ; 33 ; ; ; ;	- · - · -
TEST.GDT 12/19/16	5 —			SS	10-16-16 32			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown		1	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 2.GPJ GEO TEST.GDT 12/19/16	10 —			SS	14-15-16 31						+ - · + - 	
1-61003 THE PEAK	-				31				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		,	- · - · -
LOG OF TEST BORING	- 15 —											

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 2 - Lot 10 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	12-10-9 19					• • • • • • • • • • • • • • • • • • •
	-			SS	10-14-13 27					27;
TEST.GDT 12/19/16	5 —			SS	11-16-15 31			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	31
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 2.GPJ GEO TEST.GDT 12/19/16	-									
HE PEAKS 88 LO	10 —			SS	14-14-15 29				Stopped Auger @ 9.5 feet	29
BORING 1-61003 TI	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG OF TEST	15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 3 - Lot 01 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			7
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	bl 20 4	N lows/ft 0 60 80	
	-			SS	8-10-9 19					119		
	-			SS	10-11-13 24					24		_
TEST.GDT 12/19/16	5 — -			SS	9-15-15 30			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	30		
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 3.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	15-17-20 37							
T BORING 1-61003 THE PEA	-				37				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet			
LOG OF TES	15 —	-									i i i i	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

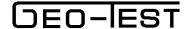
GROUNDWATER DEPTH

NO: Blk 3 - Lot 02 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	blo 20 40	N ws/ft 60 80
	-			SS	10-11-13 24					24	
	-			SS	13-13-13 26					26;	- · - · - · -
TEST.GDT 12/19/16	5 — -			SS	10-14-15 29			SM	SILTY SAND, non-plastic, medium dense, moist, brown	29	-
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 3.GPJ GEO TEST.GDT 12/19/16	-										
IE PEAKS 88 LC	10 —			SS	9-13-14 27				Stonned Auger @ 9.5 feet	27	
T BORING 1-61003 TH	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		- + - +
LOG OF TES	15 —	_									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 3 - Lot 04 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pd)	nsc	DESCRIPTION	20	N blows/fl 40 60	
	-			SS	12-12-16 28						28; ; 1 1 1 1 1 1 1 1 1 1	
	-			SS	10-18-17 35					· · · · · · · · · · · · · · · · · · · ·	35	- · - · -
TEST.GDT 12/19/16	5 —			SS	13-21-20 41			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown		41	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 3.GPJ GEO TEST.GDT 12/19/16	-											
E PEAKS 88 LOTS - I	10 —			SS	15-17-21 38				Channel Augus © 0.5 fact		- + - + •38	
DRING 1-61003 THI	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	· · · · · · · · · · · · · · · · · · · ·	- · - · · · · · · · · · · · · · · · · · ·	+ +
LOG OF TEST BO	- 15 —	-									- · - · 	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/30/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

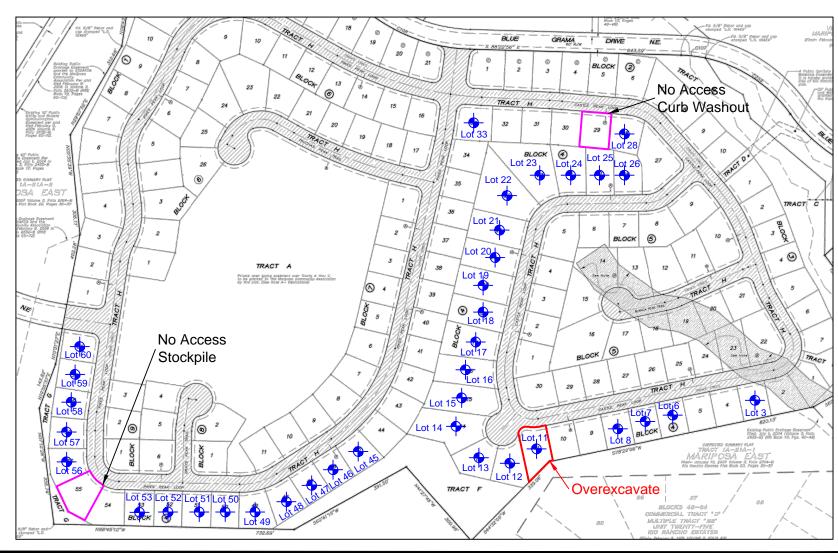
NO: Blk 3 - Lot 06 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	20	N blows/ft 40 60	80
	-			SS	12-13-14 27						27; ;	
	-			SS	18-21-23 44						44 -	
TEST.GDT 12/19/16	5 — -			SS	10-12-13 25			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown		/ i i i	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 3.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	13-16-18 34						- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	· ‡ = · = · = · = · = · = · = · = · = ·
TEST BORING 1-61003 THE PE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet			· + - · -
L0G 0F	15 —	_										

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed

BORING LOCATION MAP

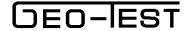


The Peaks @ Mariposa Ranch Lot Investigation Rio Rancho, New Mexico Job No. 1-61003

Figure 2 Block 4



DEO-IEST
GEOTECHNICAL ENGINEERING
AND MATERIAL TESTING



Date: 12/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 03 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 40 60 80
	-			SS	21-24-26 50						
	-			SS	25-27-27 54						- + - +
GDT 12/19/16	5 —			SS	26-27-25 52			SW-SM	WELL GRADED SAND with SILT, non-plastic, very dense to dense, moist, reddish brown		52i
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-										
PEAKS 88 LOTS - I	10 —			SS	18-20-21 41						- + - · + - ·
DRING 1-61003 THE	-	_							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		- + - + - +
LOG OF TEST BO	15 —	_									- + - +

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 12/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 06 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	20	N blows/ft 0 40 60	80
	-			SS	18-20-21 41						41. + -	
	-			SS	21-27-25 52					: 	52	
ST.GDT 12/19/16	5 —			SS	21-22-23 45			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown	· <u> </u>	45	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-											· ‡ - · -
HE PEAKS 88 LOTS	10 —			SS	18-21-20 41				Stopped Auger @ 9.5 feet	+ +		· + - · -
ORING 1-61003 Th	-	-							Stopped Sampler @ 11 feet		+ 	
LOG OF TEST B	15 —	-										· + - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 12/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 07 During Drilling: none After 24 Hours:

ſ					SAM	//PLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	POOT	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80	0
	-			SS	12-16-17 33					33	
	-			SS	24-21-22 43					43;	
.GDT 12/19/16	5 —			SS	9-11-10 21			SM	SITLY SAND, non-plastic, medium dense to dense, moist, brown	21	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-										
IE PEAKS 88 LO	10 —			SS	12-13-15 28				Stonned Auger @ 9.5 feet	28	
F TEST BORING 1-61003 THE PE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		
LOG OF	15 —	_									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 12/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

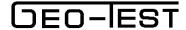
GROUNDWATER DEPTH

NO: Blk 4 - Lot 08 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	12-12-13 25					25
	-			SS	14-18-20 38					38
DT 12/19/16	5 —			SS	9-15-17 32			SM	SITLY SAND, non-plastic, medium dense to dense, moist, brown	32
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	_									
8 LOTS - BLOCK 4	- 10 —									
PEAKS 8	-			SS	18-18-18 36					36 i i
1-61003 THE	-	_							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
T BORING	-	-								
LOG OF TES	15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 10/31/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 11 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	20		N ows/ft	80
	-			SS	8-6-9 15						- + - + 5		· + - · -
	-			SS	4-5-5 10					10	· - · 	-: -	· - · -
T.GDT 12/19/16	5 —			SS	5-4-3 7			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium dense to loose, slightly moist, reddish brown	• ₇	- \frac{1}{1}	- · - · - · - · -	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-											- · - · · - · · · · · · · · · · · · · · · · · ·	· + - · -
EAKS 88 LOT	10 —			SS	12-20-35 55			SM	SILTY SAND, non-plastic, very dense, moist, light brown		- · 	55	· - · -
OG OF TEST BORING 1-61003 THE P	- - - 15 —								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet				· + - · - · · · · · · · · · · · · · · ·

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 10/31/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 12

During Drilling: none

After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N olows/ft
	-			SS	6-9-10 19					¶19	
	-			SS	6-8-10 18			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium dense, moist, reddish	18	
ST.GDT 12/19/16	5 —			SS	6-10-11 21				brown	21	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-										
EAKS 88 LOTS - BLOCK	10 —			SS	10-22-44 66			SM	SILTY SAND, non-plastic, very dense, moist, light brown		666
IG 1-61003 THE PE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		+ - · + - · + - · -
LOG OF TEST BORIN	15 —	-									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 10/31/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 13 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	2	N blows/ft 0 40 60	
	-			SS	8-12-13 25						25;	- · † - · -
	-			SS	8-12-15 27						27	- · - · - - · - · -
ST.GDT 12/19/16	5 —			SS	10-11-14 25			SM	SILTY SAND, non-plastic, medium dense, moist, brown		25	- · - · -
LOTS - BLOCK 4.GPJ GEO TES	- - 10 —											
E PEAKS 88	10 —			SS	9-12-23 35			CL	SANDY CLAY, medium plasticity, firm, moist, reddish brown		35	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	- - -								Stopped Auger @ 9.5 feet Stopped Smapler @ 11 feet			- · - · - - · - · - - · - · -
LOGOF	15 —											<u> </u>

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 10/31/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

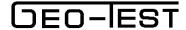
NO: Blk 4 - Lot 14 During Drilling: none After 24 Hours:

					SAN	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	5-10-15 25			SM	SILTY SAND, non-plastic, medium dense, slightly moist, brown	25
	-			SS	9-16-20 36					36 ;
ST.GDT 12/19/16	5 — -			SS	13-15-20 35					35
K 4.GPJ GEO TES	-							SW-SM	WELL GRADED SAND with SILT, non-plastic, dense, moist, reddish brown	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	10 —			SS	8-14-16 30					30
1-61003 THE PE	-	<u> </u>							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet Note: Concrete Debris and Washout on this	
TEST BORING	-	-							lot	
LOG OF 1	15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 10/31/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 15 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 40 60	80
	-			SS	7-20-25 45							
	-			SS	17-27-27 54							; ; ; ;
ST.GDT 12/19/16	5 —			SS	19-35-50 85			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown			85
OCK 4.GPJ GEO TE	-											 - · -
EAKS 88 LOTS - BLO	10 —			SS	27-50 77							• 77 ··-
4G 1-61003 THE PI	-	-							Stopped Auger @ 9.5 feet Sampler Refusal @ 10.5 feet			+ - · -
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	15 —	-								· F	- T - T - T - T - T - T - T - T - T - T	- · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 10/31/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

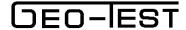
GROUNDWATER DEPTH

NO: Blk 4 - Lot 16 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N olows/ft 40 60 80
	-			SS	4-9-12 21					121	
	-			SS	22-50 72						
TEST.GDT 12/19/16	5 —			SS	14-25-38 63			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown		63
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	- - 10 —										
1-61003 THE PEAKS 8	-			SS	9-27-25 52				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		52
LOG OF TEST BORING	- 15 —	-									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 10/31/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

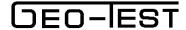
GROUNDWATER DEPTH

NO: Blk 4 - Lot 17 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 40 60	
		0 0 0 0						SM	SILTY SAND, non-plastic, loose, slightly moist, brown	. !	!!!	!
	-			SS	4-12-20 32				most, brown		*32 	- · - · - - · - · -
	_									<u> </u>	_	
	_			SS	8-30-35 65							65
2/19/16	5 —			SS	20-50 70					<u>-</u>	- · - · ·	70
GDT 1	_				70			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist,	ļ		ļ. <u>!</u>
TEST.									reddish brown			
N GEC	_											
CK 4.GF	-									<u>-</u> -	- · L _ · L	<u> </u>
- BLO	-											
8 LOTS	10 —											
EAKS 8				SS	19-26-34 60					i	i † 6	80 i
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	=	1 A A A A A A A							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	+ - · F ·	- + - + +	
1-6100;	-										-·÷-·÷	
RING	-										- • ‡ - • ‡ •	
EST BC	_										. ! ! - · - · ·	_ :
3 OF TI												
٥Ĺ	15 —										- 	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 10/31/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

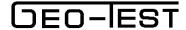
GROUNDWATER DEPTH

NO: Blk 4 - Lot 18 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 40 60 8	80
-	-			SS	7-7-11 18					118		+-·-
	-			SS	11-20-25 45					- -	45;	; ; ;
EST.GDT 12/19/16	5 —			SS	13-24-30 54			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown		54	! ! ! !
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	10 —			SS	50 50							± - · -
G 1-61003 THE PEAKS	-								Stopped Auger @ 9.5 feet Sampler Refusal @ 10 feet			+ - · -
LOG OF TEST BORIN	15 —	-								· · · · · · · · · · · · · · · · · · · ·		T - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 19 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	6-12-19 31					931 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	-			SS	7-14-21 35					
EST.GDT 12/19/16	5 —			SS	2-8-12 20			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium dense to dense, slightly moist, reddish brown * Thin Clay Lenses 2 to 11 feet	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	4-15-29					
T BORING 1-61003 THE PEAK	- - -				44				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG OF TES	15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

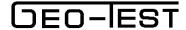
GROUNDWATER DEPTH

NO: Blk 4 - Lot 20 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	2		N lows/ft 0 60	80
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	5 —			SS	12-12-13 25				WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown * Thin Clay Lenses 7 to 11 feet		•25 i		
				SS	17-25-30 55						! 	55	
				SS	S 33-50 83	2	sv	SW-SM		· !	 		83
				SS	12-23-22 45						 	/	;
		-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	· · · · · · · · · · · · · · · · · ·	· 	· + - · 	+ - · -
		_									 - - - -	· - ·	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

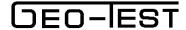
GROUNDWATER DEPTH

NO: Blk 4 - Lot 21 During Drilling: none After 24 Hours:

				SAN	MPLE			SUBSURFACE PROFILE					
DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20			80	
5 —		SS 12	12-13-14 27						•27 ₁	· - · - ·	· + - · -		
			SS	12-23-27 50				WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown		· · · 	50	· - · -	
			SS	18-28-50 78			SW-SM		· <u> </u>	· 		78	
10 —			ss						· 	· - · ‡ -			
		S		50 50						· 		· + - · - ! ! · + - · -	
		0 0 0 0							Stopped Auger @ 9.5 feet Sampler Refusal @ 10 feet	+	· 	- + -	· + - · - · · · · · · · · · · · · · · ·
										· · - - - - - - - -	- T - ! - T - !	. T	
	5 —	5 — — — — — — — — — — — — — — — — — — —	5 -	ss ss ss	SS 12-13-14 27 5 - SS 12-23-27 50 8 SS 18-28-50 78	SS 12-13-14 27 SS 12-23-27 50 SS 18-28-50 78	SS 12-13-14 27 50 50 50 50 50 50 50 50 50 50 50 50 50	SS 12-23-27 SS 18-28-50 SS 18-28-50 SS 50	SS 12-13-14 SS 12-23-27 SS 18-28-50 SS 18-28-50 SS 50 SS 50	SS 12-23-27 50 SS 18-28-50 78 SW-SM WELL GRADED SAND with SILT. non-plastic, medium to very dense, moist, reddish brown Stopped Auger @ 9.5 feet Sampler Refusal @ 10 feet	SS 12-23-27 50 SS 18-28-50 78 SW-SM WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown Stopped Auger @ 9.5 feet Sampler Refusal @ 10 feet	SS 12-13-14 SS 12-13-14 SS 12-23-27 SS 18-28-50 The state of the s	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 22 During Drilling: none After 24 Hours:

			SAMPLE						SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N plows/ft 40 60 80
	5 —			SS	9-9-9 18				WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown	118	
				SS	10-18-24 42						
TEST.GDT 12/19/16				SS	15-26-27 53			SW-SM			53
8 LOTS - BLOCK 4.GPJ GEO				ss	SS 28-50						
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16				33	78				Stopped Auger @ 9.5 feet Sampler Refusal @ 10.5 feet		++*78·-
	-										
LOG OF	15 —	-									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 23

During Drilling: none

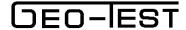
After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	blov	vs/ft	30
	-			SS	8-9-8 17					17 17	- + - - + - + -	 	
	-			SS	9-9-9 18					118	- : - : - : - : - : - : - : - : - : - : - : - : - : - : -		
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	5 —	SS 4-7-8 15 SM SILTY SA moist, brown state of the state o		SS	4-7-8 15			SM	SILTY SAND, non-plastic, medium dense, moist, brown	15	- · - - · -		! ! - · - ! ! ! - · -
	- - 10 —				-		 						
	- - -				21				Stopped Auger @ 9.5 feet Stopped Smapler @ 11 feet		- · - - · - - · -		:
LOG OF TEST I	- 15 —	_								· · · · · · · · · · · · · · · · · · · ·	- · -	i <u>†</u>	- · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 11/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 24 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	P007	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	8-8-9 17					
	-			SS	7-11-12 23					23
EST.GDT 12/19/16	5 —			SS	10-18-19 37			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	37
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	10 —			SS	4-7-7 14					
	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG OF TEST B	- 15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

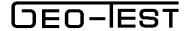
GROUNDWATER DEPTH

NO: Blk 4 - Lot 25 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N blows/ft 40 60 80)
	-			SS	10-9-10 19					19		
	-			SS	6-12-12 24					24		
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	5 —			SS	8-13-15 28			SM	SILTY SAND, non-plastic, medium dense, moist, brown	2		_ · -
	-	10 —										-·-
THE PEAKS 88 L	10 —			SS	8-11-10 21				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	+- 121 		_ · -
ST BORING 1-61003	-	-							Stopped Sampler @ 11 leet			
LOG OF TE	15 —											

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

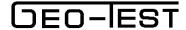
GROUNDWATER DEPTH

NO: Blk 4 - Lot 26 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	blo	N ws/ft	80
	-			SS	8-9-10 19						19	- · - ·	
	-			SS	7-10-11 21					· 	21 	- · - · - · - ·	: - - - - -
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	5 —	-		SS	7-10-14 24			SM	SILTY SAND, non-plastic, medium dense, moist, brown	· ! · ! · !	24	- · - ·	
	-									· · · 	 		± - · -
HE PEAKS 88 LC	10 —			SS	11-12-11 23				Stopped Auger @ 9.5 feet	: : :	23	-·+-· -·+	
BORING 1-61003 T.	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		· · · · · · · · · · · · · · · · · · · ·	- · - · · - · · - · ·	
LOG OF TEST	15 —									 	-	- · - ·	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

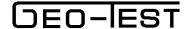
GROUNDWATER DEPTH

NO: Blk 4 - Lot 28 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	2	blo	N ows/ft 60	80
	-			SS	8-10-10 20						20	- · - ·	
	-			SS	9-10-11 21						21	- · - ·	† † - · -
DT 12/19/16	5 —	5 —		SS	7-12-10 22			SM	SILTY SAND, non-plastic, medium dense, moist, brown	!	22 [- · - ·	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-								· · · · · · · · · · · · · · · · · ·	+ - · ÷		÷ - · - ! ! - · - ! - · -	
PEAKS 88 LOTS - BLO	10 —			SS	11-12-13 25						25	- · - ·	+
DRING 1-61003 THE PEAP	-	- -							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	 	+ +	- · † - ·	† - · -
LOG OF TEST BC	- 15 —	-									· · · 	- · - ·	!

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 33 During Drilling: none After 24 Hours:

					SAI	//PLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	ТҮРЕ	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	14-15-15 30					30
	-			SS	16-21-23 44					
T.GDT 12/19/16	5 —			SS	13-23-24 47			SM	SILTY SAND, non-plastic, dense to very dense, moist, brown	471
CK 4.GPJ GEO TES	-									
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	10 —			SS	20-25-24 49					49
3 1-61003 THE PE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
OF TEST BORING	-	_								
F00	15 —									<u> </u>

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 45 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	_			SS	8-10-13 23					23.
	-			SS	11-16-15 31					31 ;
JT 12/19/16	5 —			SS	9-9-14 23			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	- - - 10 —			SS	12-16-18				dense, moist, brown	
03 THE PEAKS	_				34				Stopped Auger @ 9.5' Stopped Sampler @ 11'	34
TEST BORING 1-610	-	-								
LOG OF	15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

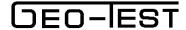
GROUNDWATER DEPTH

NO: Blk 4 - Lot 46 During Drilling: none After 24 Hours:

					SAI	//PLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 40 60 80
	_			SS	20-18-20 38						38.
	-			SS	18-16-17 33						\\ \frac{1}{1} -
.GDT 12/19/16	5 —			SS	19-23-22 45			SM	SILTY SAND, non-plastic, dense to very dense, moist, brown		45
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-										
PEAKS 88 LOTS - F	10 —			SS	21-24-26 50						50
NG 1-61003 THE	-								Stopped Auger @ 9.5' Stopped Sampler @ 11'		
LOG OF TEST BORI	- 15 —	_									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 47 During Drilling: none After 24 Hours:

					SAM	//PLE			SUBSURFACE PROFILE			
	DЕРТН (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	b 20 4	N lows/ft 0 60 80	
	-			SS	10-11-12 23					23		
	-			SS	9-16-15 31					3.		- · -
ST.GDT 12/19/16	5 —			SS	18-17-19 36			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown		36_ <u> </u>	- · -
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-											- · -
PEAKS 88 LOTS -	10 —			SS	20-20-20 40						40	
RING 1-61003 THE	-								Stopped Auger @ 9.5' Stopped Sampler @ 11'			
LOG OF TEST BOF	- 15 —											- · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 48 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	10-11-10 21					21.
	-			SS	9-9-9 18					
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	5 —	5 —		SS	12-13-14 27			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	27
	- - -									
HE PEAKS 88 LO	10 —			SS	10-16-20 36				Stopped Auger @ 9.5'	
EST BORING 1-61003 TI	-	-							Stopped Auger @ 9.5' Stopped Sampler @ 11'	
LOG OF 1	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 49 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	6-8-8 16					
	-			SS	8-9-12 21					
T.GDT 12/19/16	5 —			SS	12-16-16 32			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-									
PEAKS 88 LOTS - I	10 —			SS	15-18-19 37					•37
G 1-61003 THE F	_								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
3 OF TEST BORIN	-									
ğ	15 —	1								<u> </u>

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

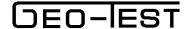
GROUNDWATER DEPTH

NO: Blk 4 - Lot 50 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	_			SS	6-7-8 15					15
	_			SS	10-9-11 20					20
.GDT 12/19/16	5 —		SS	8-12-14 26			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	261	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-			CC 40 40 40						
PEAKS 88	10 —			SS	12-18-18 36					36
OF TEST BORING 1-61003 THE	_								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
LOG	15 —									<u> </u>

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

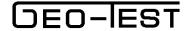
GROUNDWATER DEPTH

NO: Blk 4 - Lot 51 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DЕРТН (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	12-12-13 25					25
	-			SS	14-14-14 28					28; ; ;
ST.GDT 12/19/16	5 —			SS	18-18-23 41			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	41
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-									
PEAKS 88 LOTS - BL	10 —			SS	20-17-16 33					33
ING 1-61003 THE	-								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
LOG OF TEST BOR	- 15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 52 During Drilling: none After 24 Hours:

					SAI	//PLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60	80
	-			SS	8-9-9 18					18	
	-			SS	12-13-14 27					27	· · - · -
ST.GDT 12/19/16	5 —			SS	9-14-16 30			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	30	· · · · - · -
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-										
E PEAKS 88 LOTS - B	10 —			SS	11-11-15 26						··+
DRING 1-61003 THE	-	-							Stopped Auger @ 9.5' Stopped Sampler @ 11'		· · · · - · -
LOG OF TEST BC	- 15 —	-									: : : : : : :

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/09/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

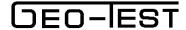
GROUNDWATER DEPTH

NO: Blk 4 - Lot 53 During Drilling: none After 24 Hours:

					SAM	//PLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	12-17-18 35					
	-			SS	16-24-25 49					49
T.GDT 12/19/16	5 —			SS	20-23-25 48			SM	SILTY SAND, non-plastic, dense, moist, brown	48
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	- - 10 —	-								
03 THE PEAKS 8	-			SS	18-16-18 34				Stopped Auger @ 9.5' Stopped Sampler @ 11'	34
ST BORING 1-610	-	-								
LOG OF TE	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 56 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	7-8-9 17					•17
	-			SS	8-12-13 25					25
ST.GDT 12/19/16	5 —			SS	16-17-16 33			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	33 1 1 1 - 1 - 1 - 1 - 1
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	-									
PEAKS 88 LOTS	10 —			SS	18-18-18 36					36
DRING 1-61003 THE	-								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
LOG OF TEST B(15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 57 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	_			SS	4-5-6 11					••••••••••••••••••••••••••••••••••••••
	_			SS	6-10-12 22					22
3DT 12/19/16	5 —			SS	8-9-11 20			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	20
TS - BLOCK 4.GPJ GEO TEST.G	_									
PEAKS 88 LO	10 —			SS	16-17-18 35					35 1
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	- - -								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
000	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

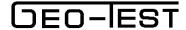
GROUNDWATER DEPTH

NO: Blk 4 - Lot 58 During Drilling: none After 24 Hours:

					SAM	//PLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	13-16-16 32					• • • • • • • • • • • • • • • • • • •
	-			SS	14-17-20 37					• • • • • • • • • • • • • • • • • • •
ST.GDT 12/19/16	5 —			SS	20-21-21 42			SM	SILTY SAND, non-plastic, dense, moist, brown	42.
CK 4.GPJ GEO TES	-									
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	10 —			SS	18-16-18 34					34
3 1-61003 THE PE.	-								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
G OF TEST BORING	-									
의	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 59

During Drilling: none

After 24 Hours:

					SAI	ИPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pdf)	USC	DESCRIPTION	20	N blows/ft 40 60	80
	-			SS	18-16-17 33						33	
	-			SS	20-21-22 43						43	
JT 12/19/16	5 —			SS	23-22-22 44			SM	SILTY SAND, non-plastic, dense, moist, brown		44	<u> </u> - · -
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	- - - 10 —								brown			
THE PEAKS 86	-			SS	18-19-18 37				Stopped Auger @ 9.5' Stopped Sampler @ 11'		37	
F TEST BORING 1-61003	-								Stopped Gampler & TT			† - · -
100 O	15 —									<u> </u>	<u> </u>	<u>i</u> - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 4 - Lot 60 During Drilling: none After 24 Hours:

					SAM	//PLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	12-13-15 28					28
	-			SS	14-18-22 40					
T.GDT 12/19/16	5 —			SS	9-12-12 24			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	24
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 4.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	11-13-17 30					
BORING 1-61003 THE PE	-								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
LOG OF TEST	15 —	_								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed

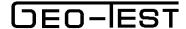
BORING LOCATION MAP 24 0.3292 Ac. TRACT C OverExcavate 1 0.2343 Ac. Lot 7 Lot 6 Lot 5 BLOCK Lot 11 OverExcavate Lot 13 Lot 10 Lot 12 Lot 15 (4) Lot 22 16 0.5148 Ac. Lot 23 BLOCK Lot₁26 Lot 24 Lot₁27 Lot₁28 Lot 29 16 0.3635 Ac. Over xcavate 15 0.4278 Ac. 3 0.2146 Ac. 5 0.2146 Ac. 6 0.2146 Ac. NOTE (B) Figure 3 The Peaks @ Mariposa Ranch Lot Investigation DEO-IEST

Rio Rancho, New Mexico Job No. 1-61003

Block 5



GEOTECHNICAL ENGINEERING AND MATERIAL TESTING



Date: 11/22/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 01 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	ТҮРЕ	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	7-8-7 15			SM	SILTY SAND, non-plastic, medium dense, moist, brown	15
	_			SS	7-7-9 16					16 ; ;
T.GDT 12/19/16	5 —			SS	7-5-7 12					• 12
K 5.GPJ GEO TEST	-							SP	POORLY GRADED SAND with GRAVEL, non-plastic, medium dense, moist, reddish brown	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	10 —			SS	9-8-10 18					18
1-61003 THE PEA	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
TEST BORING	-									
L0G 0F	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/22/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 02 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	8-8-6 14					14 i i i i i i i i i i i i i i i i i i i
	-			SS	4-6-7 13					13 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
TEST.GDT 12/19/16	5 —			SS	4-5-8 13			SM	SILTY SAND, non-plastic, medium dense, moist, brown	•13
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	10 —			SS	6-7-8 15					
EST BORING 1-61003 THE PEA	- - -				13				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG OF T	15 —	_								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 11/02/2016 Project No: 1-61003 5.5" OD HSA

Elevation: Type:

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 04

During Drilling: none

After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	blov 40	N ws/ft 60	80
	-			SS	7-6-8 14					14	- · -	- + -	
	-			SS	4-3-5 8					8;	- · -	- · - ·	
ST.GDT 12/19/16	5 —			SS	3-3-5 8			SM	SILTY SAND, non-plastic, loose to medium dense, moist, brown	8	- · - - · -		
- BLOCK 5.GPJ GEO TE	-			SS	3-5-10 15					15	- · - - · - - · -		
PEAKS 88 LOTS	10 —			SS	7-8-9 17					17	- + - - 1	- + -	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		- · † -	- · - ·	
LOG OF TE	15 —	-									 	 	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 05

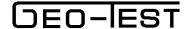
During Drilling: none

After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	20	blow		80
	-			SS	10-10-11 21					12	 		
	-			SS	10-15-16 31						31	- · - · · - ·	· - · -
EST.GDT 12/19/16	5 —			SS	4-7-8 15			SM	SILTY SAND, non-plastic, medium dense to dense, slightly moist, brown	15 	- · <u> </u> - ·		
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-										: - · - - · -	<u> </u> 	
PEAKS 88 LOTS -	10 —			SS	4-7-9 16					16	 		· + - · -
RING 1-61003 THE	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		; ; 	+ 	· + - · - i · + - · -
LOG OF TEST BOF	15 —	-									 	 	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

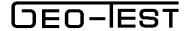
GROUNDWATER DEPTH

NO: Blk 5 - Lot 06 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pdf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	10-10-10 20					20
	-			SS	11-12-13 25					25
3EO TEST.GDT 12/19/16	5 — -	-		SS	10-12-12 24			SM	SILTY SAND, non-plastic, medium dense, moist, brown	24
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	- 10 —	-		SS	12-13-14					27
DRING 1-61003 THE PEAN	-				27				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG OF TEST BC	- 15 —	_								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 07 During Drilling: none After 24 Hours:

ſ					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	РОС	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	6-7-6 13			SM	SILTY SAND, non-plastic, medium dense, moist, brown	¶13 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
	-			SS	7-8-9 17			CL	SANDY CLAY, low to medium plasticity, firm, slightly moist, dark brown	17 ; ; ;
ST.GDT 12/19/16	5 —			SS	7-10-15 25					25
OCK 5.GPJ GEO TES	-							SM	SILTY SAND, non-plastic, medium dense, moist, brown	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	10 —			SS	10-11-13 24					24
IG 1-61003 THE P	_								Stopped Auger @ 9.5 feet Stopped Smapler @ 11 feet	
OF TEST BORIN	-									
9	15 —									<u> </u>

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 08 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	20	blo	N ws/ft 60 {	80
	-			SS	7-10-12 22						22	- · - ·	
	-			SS	9-12-14 26						26;	- · - · - · - ·	† † - · - i · -
TEST.GDT 12/19/16	5 — -			SS	7-6-6 12			SM	SILTY SAND, non-plastic, medium dense, moist, brown	12			
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	10 —			SS	7-10-14 24						24		+ - · -
F BORING 1-61003 THE PEA	-				24				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		· — · · · · · · · · · · · · · · · · · · · ·	- · - · - · - · - · - ·	; - · -
LOG OF TEST	15 —	-								- -	- † ! - !	- · - ·	† - · - ! ! - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 12/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

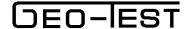
GROUNDWATER DEPTH

NO: Blk 5 - Lot 10 During Drilling: none After 24 Hours:

					SAM	//PLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 40 60 80	
	-			SS	18-20-18 38						938	
	-			SS	29-30-24 54						- + 54 - +	- · -
GDT 12/19/16	5 —			SS	24-26-26 52			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown			- · -
5.GPJ GEO TEST.	-											
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	10 —			SS	20-21-23							- · -
61003 THE PEAKS	-				44				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		44	- · -
TEST BORING 1-	-	-									- + - + - + - + - + - + - + - + - + - +	- · -
LOG OF 1	15 —	_								<u>-</u>		

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 12/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 11 During Drilling: none After 24 Hours:

					SAM	MPLE	ı		SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pd)	nsc	DESCRIPTION	20	N blows/ft 40 60 80
	-			SS	13-17-17 34						34
	-			SS	16-26-27 53						53 :
EST.GDT 12/19/16	5 —			SS	24-30-31 61			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown		61.
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-										
PEAKS 88 LOTS - B	10 —			SS	18-21-24 45						45
AING 1-61003 THE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	- -	
LOG OF TEST BOF	15 —										

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 12/02/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

After 24 Hours:

LOG OF TEST BORINGS

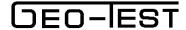
GROUNDWATER DEPTH

NO: Blk 5 - Lot 12 During Drilling: none

					SAN	//PLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION		N blows/ft 40 60 80
	-			SS	12-14-13 27					27	7
	- - -			SS	15-19-21 40						40
ST.GDT 12/19/16	5 -			SS	18-19-20 39			SM	SILTY SAND, non-plastic, dense, moist, brown		39
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-										
PEAKS 88 LOTS	10 —			SS	21-23-21 44						44
RING 1-61003 THE	- -								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		
LOG OF TEST BO	- 15 —										

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 12/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

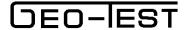
NO: Blk 5 - Lot 13 During Drilling: none After 24 Hours:

					SAM	ИPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	20	N blows/ft 40 60	80
	-			SS	20-16-15 31					 	31	+
	-			SS	18-19-20 39						39 ;	
ST.GDT 12/19/16	5 —			SS	25-26-26 52			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, brown	· <u> </u> -	52_ 	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-											
IE PEAKS 88 LOTS - B	10 —			SS	18-20-23 43				Stopped Auger @ 9.5 feet		43 1	. +
30RING 1-61003 TH	-								Stopped Ruger @ 9.3 leet Stopped Sampler @ 11 feet		- · - · · · · · · · · · · · · · · · · · ·	
LOG OF TEST E	15 —	-								: -		

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level
CS - Continuous Sampler

UD - Undisturbed



Date: 12/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 14 During Drilling: none After 24 Hours:

					ИPLE			SUBSURFACE PROFILE		
DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N blows/ft 40 60 80
_			SS	14-13-15 28			SM	SILTY SAND, non-plastic, medium dense, moist, brown		8 - + - +
_			SS	13-26-26 52						52
5 —			SS	15-25-25 50						50
_							SW-SM	WELL GRADED SAND with SILT, non-plastic, very dense, slightly moist, reddish brown		
10 —			SS	26-50 76						76
_				70				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		
- - 16 -										,
	5 —	5 —	5 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	ss ss ss ss	SS 14-13-15 28 SS 13-26-26 52 SS 15-25-25 50 SS 26-50 76	SS 14-13-15 28 SS 13-26-26 52 SS 15-25-25 50 SS 26-50 76	SS 14-13-15 28 SS 13-26-26 52 SS 15-25-25 50 SS 26-50 76	SS 14-13-15 28 SM SS 13-26-26 52 SS 15-25-25 50 SW-SM 10 — SS 26-50 76	SS 14-13-15 28 SM SILTY SAND, non-plastic, medium dense, moist, brown SS 13-26-26 52 SS 15-25-25 50 SW-SM WELL GRADED SAND with SILT, non-plastic, very dense, slightly moist, reddish brown SS 26-50 76 Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	SS 14-13-15 28 SM SILTY SAND, non-plastic, medium dense, moist, brown SS 13-26-26 52 SS 15-25-25 50 SW-SM WELL GRADED SAND with SILT, non-plastic, very dense, slightly moist, reddish brown SS 26-50 76 Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 12/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 15 During Drilling: none After 24 Hours:

					SAM	ИPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	20	N blows/ft 40 60 80
	-			SS	12-18-16 34						34
	-			SS	18-21-23 44						- · - · - · - · -
3DT 12/19/16	5 —			SS	15-27-28 55			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, reddish brown		i
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-										
PEAKS 88 LOTS	10 —			SS	18-25-26 51						
RING 1-61003 THE	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	-	
LOG OF TEST BOF	- 15 —										- + - + - +

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/22/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 17 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	20	N blow 40	s/ft	80
	-			SS	8-8-8 16					16	- · -	 	
	-			SS	7-8-7 15					15	- · - · - · - · -	· - · ·	
TEST.GDT 12/19/16	5 —			SS	10-9-9 18			SM	SILTY SAND, non-plastic, medium dense, moist, brown	118	- · 		! ! - · - ! ! ! - · -
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	8-7-7							· ‡ = · · · · · · · · · · · · · · · · ·	
BORING 1-61003 THE PEAR	-				14				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		- · - · · - · · · · · · · · · · · · · · · · · ·	· + - · · · · · · · · · · · · · · · · ·	! ! ! ! ! ! ! ! ! !
LOG OF TEST	15 —	-								 	- · - - · -	· † - · ·	† - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler **UD** - Undisturbed



Date: 11/22/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 18

During Drilling: none

After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N blows/ft 40 60	
	-			SS	6-7-6 13					13		- · - · -
	-			SS	7-7-7 14						$ \begin{array}{ccc} & & & \\ & &$	- · - · - - · - · -
TEST.GDT 12/19/16	5 —			SS	5-6-7 13			SM	SILTY SAND, non-plastic, medium dense, moist, brown	13		- · - · -
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	7-8-9 17							
OF TEST BORING 1-61003 THE PE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet			
LOG	15 —											

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 11/22/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

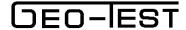
GROUNDWATER DEPTH

NO: Blk 5 - Lot 19 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	10-12-12 24					24
	-			SS	15-15-16 31					31 ;
TEST.GDT 12/19/16	5 —			SS	5-9-9 18			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	5-7-7 14					
F TEST BORING 1-61003 THE PE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
10000	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/01/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

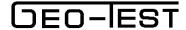
GROUNDWATER DEPTH

NO: Blk 5 - Lot 20 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	16-18-21 39					39 1
	-			SS	26-28-30 58					58
ST.GDT 12/19/16	5 — -			SS	10-12-13 25			SM	SILTY SAND, fine to medium grain, non-plastic, dense to very dense, moist, brown	251
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-									
PEAKS 88 LOTS	10 —			SS	14-14-13 27					
ST BORING 1-61003 THE	-	_							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG OF TE	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/23/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

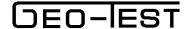
GROUNDWATER DEPTH

NO: Blk 5 - Lot 22 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DЕРТН (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	8-8-6 14					14
	-			SS	10-17-17 34					34 ;
TEST.GDT 12/19/16	5 —			SS	12-13-15 28			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	28
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-									
E PEAKS 88 LOTS	10 —			SS	12-12-12 24				Channed Augus @ 0.5 fact	24
DRING 1-61003 THE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG OF TEST BC	- 15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/23/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

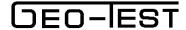
GROUNDWATER DEPTH

NO: Blk 5 - Lot 23 During Drilling: none After 24 Hours:

					SAM	//PLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	15-16-15 31					
	-			SS	17-19-20 39					
O TEST.GDT 12/19/16	5 —			SS	8-12-13 25			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	- - 10 —									
003 THE PEAKS 8	-			SS	10-11-14 25				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	25
EST BORING 1-610	-									
LOG OF TE	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/23/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 24 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/t	
	_			SS	7-10-10 20			SM	SILTY SAND, non-plastic, medium dense, moist, brown	20		
	_			SS	6-7-13 20			CL	SANDY CLAY, low to medium plasticity, firm, slightly moist, brown	20	-	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	5 —			SS	4-5-7 12							· - · - · - · - · - · - · - · - · - · -
	_							SP	POORLY GRADED SAND, non-plastic, medium dense, slightly moist, reddish brown		-	-
EAKS 88 LOTS - BLC	10 —			SS	5-6-7 13					13	- · - · · · · · · · · · ·	
IG 1-61003 THE P	_								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		- · + - · + 	· - · + - · - · + - · -
3 OF TEST BORIN	_										- · - · - · 	
ŏĹ	15 —									<u> </u>	- · i - · i	· - · - i - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/23/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 25 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	20		N ows/ft) 60	80
	-			SS	12-11-12 23					 	23		
	-			SS	18-26-26 52					· · · 	 	52	† - · -
EST.GDT 12/19/16	5 —			SS	9-11-10 21			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown		21	· - · · - ·	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-									· · · · · · · · · · · · · · · · · ·	· · 		
PEAKS 88 LOT	10 —			SS	11-11-11 22						22	· - · - ·	<u>+</u> - · -
30RING 1-61003 THE	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	· 	· · · -	· - ·	
LOG OF TEST E	15 —									· i	· 		

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/23/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 26 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80	
	-			SS	12-12-16 28					28,	-·-
	-			SS	13-23-25 48					48,	- · -
T.GDT 12/19/16	5 —			SS	9-9-9 18			SW-SM	WELL GRADED SAND with SILT, non-plastic, medium to very dense, moist, reddish brown	118	- ·-
5.GPJ GEO TES	-										-·-
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	10 —			SS	20, 20, 20						-·-
003 THE PEAKS	-			55	26-28-30 58				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	1 1 58 1	
ST BORING 1-61	-	_									
LOG OF TES	15 —										

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/23/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

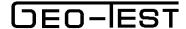
NO: Blk 5 - Lot 27 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20		N ows/ft 60	80
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	5 —			SS	16-25-25 50 19-26-26 52 30-50 80			SW-SM	WELL GRADED SAND with SILT, non-plastic, very dense, moist, reddish brown Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet				
L0G 0F	15 —										· - · 	- · - ·	<u> </u> - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 11/23/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 5 - Lot 28 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	10-10-10 20			SM	SILTY SAND, non-plastic, medium dense, moist, brown	20
	-			SS	13-16-16 32					
T.GDT 12/19/16	5 —			SS	16-22-20 42					42
K 5.GPJ GEO TES	-							SP	POORLY GRADED SAND, non-plastic, dense to very dense, moist, reddish brown	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	10 —			SS	17-25-25 50					
1-61003 THE PEA	-				30				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	+
OF TEST BORING	-	_								
100	15 —									<u> </u>

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/22/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

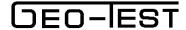
GROUNDWATER DEPTH

NO: Blk 5 - Lot 29 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	P007	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60	80
	-			SS	8-9-10 19					19	
	-			SS	7-11-12 23					23 ;	- · - · -
TEST.GDT 12/19/16	5 —			SS	11-16-18 34			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	34	- · · · - · - · · · · · · · · · · · · ·
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	10 —			SS	9-13-13 26					26	- · + - ·
1003 THE PEAK	-				26				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		
ST BORING 1-6	-										- · - · -
LOG OF TE	15 —										<u> </u>

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 11/22/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

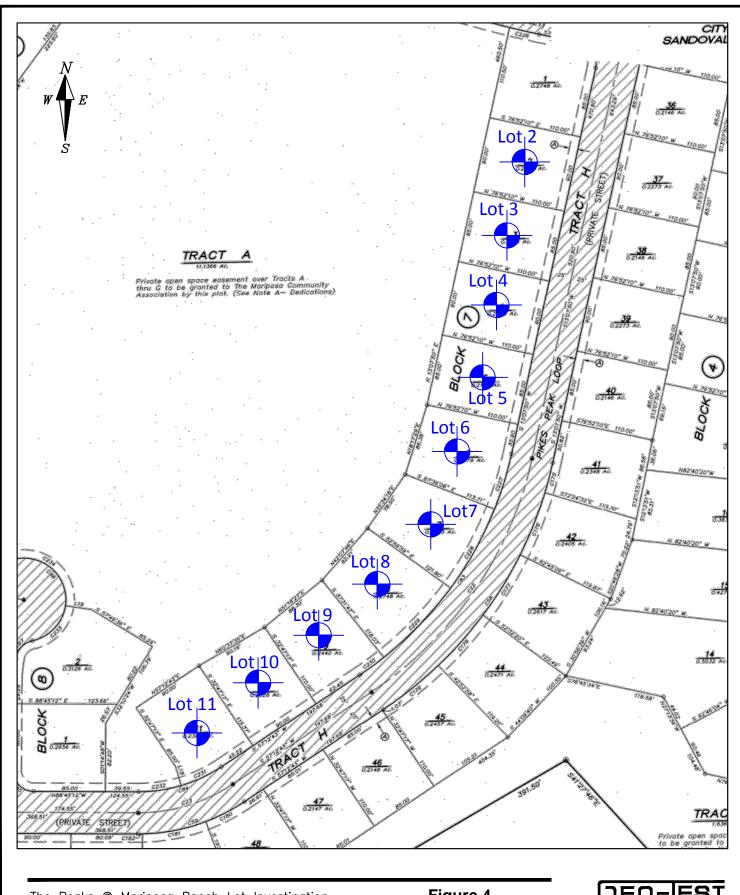
GROUNDWATER DEPTH

NO: Blk 5 - Lot 30 During Drilling: none After 24 Hours:

ſ					SAM	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	blo 20 40	N pws/ft 0 60 80
	-			SS	10-11-11 22			SM	SILTY SAND, non-plastic, medium dense, moist, brown	22	
	-			SS	7-15-16 31					31	
T.GDT 12/19/16	5 —			SS	7-11-13 24					24	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 5.GPJ GEO TEST.GDT 12/19/16	-							SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to medium dense, moist, reddish brown		
PEAKS 88 LOTS - BLO	10 —			SS	11-12-13 25						
RING 1-61003 THE.	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		++
LOG OF TEST BOI	- 15 —	-									- T - T

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



The Peaks @ Mariposa Ranch Lot Investigation Rio Rancho, New Mexico Job No. 1—61003

Figure 4 Block 7

DEO-IEST GEOTECHNICAL ENGINEERING AND MATERIAL TESTING



Date: 12/14/2016

Elevation: Type: 5.5" OD HSA

Project No: 1-61003

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 02

During Drilling: none

After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	20	N blows/ft 40 60	80
	-			SS	13-15-15 30					:	30 ; -\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	-			SS	16-23-21 44							
TEST.GDT 12/19/16	5 — -			SS	15-21-20 41			SM	SILTY SAND, non-plastic, dense, moist, brown		- · · · · · · · · · · · · · · · · · · ·	
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	-											± - · -
1-61003 THE PEAK 88 L	10 —			SS	23-24-25 49				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		- + + + - + - + + - + + - + + - + - + -	+
LOG OF TEST BORING	- 15 —	-									- '	† - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 12/14/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

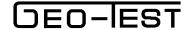
GROUNDWATER DEPTH

NO: Blk 7 - Lot 03 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 0 40 60 80
	-			SS	14-15-16 31						931
	-			SS	15-20-22 42						42
ST.GDT 12/19/16	5 —			SS	28-30-25 55			SW-SM	WELL GRADED SAND with SILT, non-plastic, dense to very dense, moist, brown	· <u> </u>	555
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	-										
E PEAK 88 LOTS - B	10 —			SS	21-21-19 40				Stangar Augar @ 0.5 foot		40
DRING 1-61003 TH	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	· 	· - · † - · † - · † - · -
LOG OF TEST BO	15 —										

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/14/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 04 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N blows/ft 40 60 80
	-			SS	7-8-9 17			SM	SILTY SAND, non-plastic, medium dense, moist, brown	17	
	_			SS	9-15-17 32						32 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
ST.GDT 12/19/16	5 —			SS	24-25-26 51						51
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	-							SW-SM	WELL GRADED SAND with SILT, non-plastic, very dense, slightly moist, reddish brown		
PEAK 88 LOTS - BLC	10 —			SS	21-20-21 41						
NG 1-61003 THE	-								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		
OF TEST BORII	_	_								 -	
<u></u> [15 —	1								<u> </u>	· † - · † - · † - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/14/2016

Elevation: Type: 5.5" OD HSA

Project No: 1-61003

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 05 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION		N blows/ft 40 60	80
	-			SS	4-5-6 11					11 		
	-			SS	6-7-7 14					14	·	· · - · -
TEST.GDT 12/19/16	5 — -			SS	6-11-12 23			SM	SILTY SAND, non-plastic, medium dense, moist, brown	23		
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	-											
003 THE PEAK 88 L	10 —			SS	9-12-13 25				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	25	5	
EST BORING 1-61	-	-									; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	:
LOG OF T	15 —	_									i i	· · · · · · ·

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/14/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 06 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE			
	DEРТН (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 40 60	80
	-			SS	12-14-16 30						\$\frac{1}{1} - \frac{1}{1} - \frac{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \frac{1}{1} - \fra	· + - · -
	-			SS	15-23-21 44					· · · · · · · · · · · · · · · · · · · ·	44	· - · -
EST.GDT 12/19/16	5 — -			SS	18-20-19 39			SM	SILTY SAND, non-plastic, dense, moist, brown		39	
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	-											
PEAK 88 LOTS -	10 —			SS	16-19-19 38						- - - - - - - - - -	· + - · -
IG 1-61003 THE	_	_							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		- · - · -	· - · -
OF TEST BORIN	-										- · - · · - · · · · · · · · · · · · · · · · · ·	· + - · -
P00	15 —	1								<u> </u>		

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/14/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 07 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	10-12-12 24					
	-			SS	17-20-18 38					
EST.GDT 12/19/16	5 —			SS	13-14-13 27			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	27;
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	10 —			SS	16-18-32 50					
ORING 1-61003 THE PEA	-				30				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
LOG OF TEST B	- 15 —	-								

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler

UD - Undisturbed



Date: 12/14/2016

Elevation: Type: 5.5" OD HSA

Project No: 1-61003

After 24 Hours:

LOG OF TEST BORINGS

GROUNDWATER DEPTH

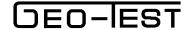
NO: Blk 7 - Lot 08

During Drilling: none

					SAI	MPLE			SUBSURFACE PROFILE		
	DЕРТН (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	bl. 20 40	N ows/ft 0 60 80
	_			SS	13-14-17 31						· - · - · - · -
	-			SS	15-15-15 30					30	· - · - · - · -
TEST.GDT 12/19/16	5 —			SS	12-17-19 36			SM	SILTY SAND, non-plastic, dense, moist, brown	3	6
OTS - BLOCK 7.GPJ GEO	_										+ +
PEAK 88 LC	10 —			SS	16-19-23 42						242
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	_								Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet		· - · † - · † - · - · - · - · - · - · - · - · - · -
LOG OF '	15 —									i i	· — · — · —

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/14/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 09

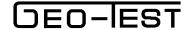
During Drilling: none

After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE		
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	osn	DESCRIPTION	N blows/ft 20 40 60	80
	-			SS	9-10-11 21					21	
	-			SS	14-17-16 33					33	
TEST.GDT 12/19/16	5 —			SS	14-15-16 31			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	31	· · · · -
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	- - 10 —			SS	12-11-14						
1003 THE PEAK 8	-			33	25				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	i •25 i i i i i i i i i i i i i i i i i i i	
ST BORING 1-6	-	-									- · - · -
LOG OF TE	15 —										

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/14/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 10 During Drilling: none After 24 Hours:

					SAM	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	10-13-15 28					
	-			SS	9-12-13 25					25;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
EST.GDT 12/19/16	5 — -			SS	15-16-17 33			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown	33
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	-									
3 THE PEAK 88 LC	10 —			SS	15-16-15 31				Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	
ST BORING 1-6100	-	-								
LOG OF TES	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/14/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 7 - Lot 11

During Drilling: none

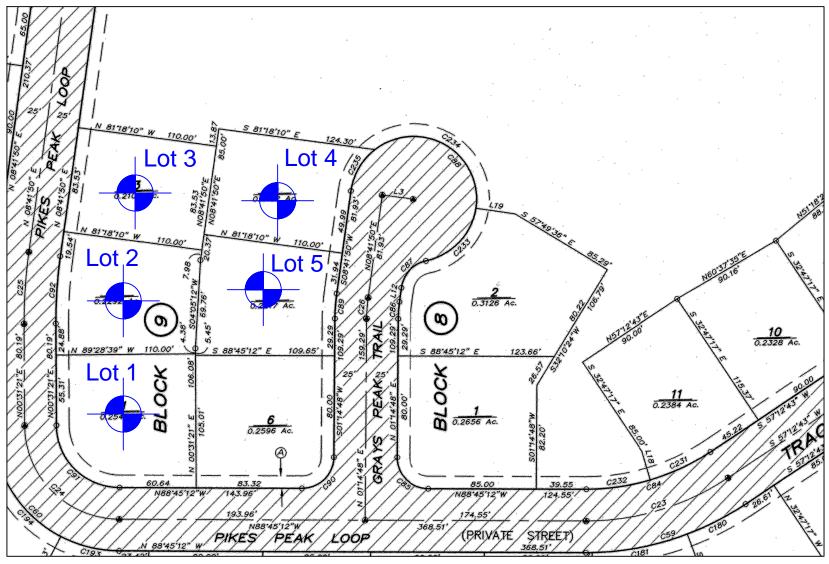
After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pdf)	nsc	DESCRIPTION	20		N bws/ft 60	80
	-			SS	9-10-11 21					· 	21	+- +- +-	
	-			SS	10-14-15 29					· 	29	- · - - · -	· - · -
ST.GDT 12/19/16	5 —			SS	9-9-12 21			SM	SILTY SAND, non-plastic, medium dense to dense, moist, brown		21 	- · - - · -	
OCK 7.GPJ GEO TE	-										1	- · - · - ·	
PEAK 88 LOTS - BL	10 —			SS	12-14-18 32						32	-·+- -·+- 	. +
LOG OF TEST BORING 1-61003 THE PEAK 88 LOTS - BLOCK 7.GPJ GEO TEST.GDT 12/19/16	-	-							Stopped Auger @ 9.5 feet Stopped Sampler @ 11 feet	+	- · - · - · 	- · - · - · - · -	· + - · -
LOG OF TEST BO	- 15 —									· 	- · - · · · · · · · · · · · · · · · · · ·	- · - · - · - · -	: - - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed

BORING LOCATION MAP



The Peaks @ Mariposa Ranch Lot Investigation Rio Rancho, New Mexico Job No. 1-61003 Figure 5 Block 9



GEOTECHNICAL ENGINEERING
AND MATERIAL TESTING



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

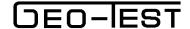
GROUNDWATER DEPTH

NO: Blk 9 - Lot 01 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pdf)	nsc	DESCRIPTION	2		N lows/ft 0 60	80
	-			SS	4-5-7 12					1	2 1 2 1 1 1		
	-			SS	7-10-10 20					· \	20 i	-	· +
T 12/19/16	5 —			SS	8-10-12 22			SM	SILTY SAND, non-plastic, medium dense,	 	22. <u>i</u>	 	· · <u> </u> - · -
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16	- - -								moist, brown				
E PEAKS 88 L	10 —			SS	10-10-11 21				Channel Aures © 0.51	+ +	21 i	+-	··+
F TEST BORING 1-61003 THE	-								Stopped Auger @ 9.5' Stopped Sampler @ 11'		+ + + + +		
100 OI	15 —	-								:	· :		

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 9 - Lot 02 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE	
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	N blows/ft 20 40 60 80
	-			SS	6-7-8 15					15
	-			SS	8-9-8 17					17 i i i i i i i i i i i i i i i i i i i
ST.GDT 12/19/16	5 —			SS	5-9-9 18			SM	SILTY SAND, non-plastic, medium dense, moist, brown	18. 1 1 1
CK 9.GPJ GEO TES	-									
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16	10 —			SS	12-13-12 25					
3 1-61003 THE PE	-								Stopped Auger @ 9.5' Stopped Sampler @ 11'	
G OF TEST BORIN	-	-								
의	15 —									

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level
CS - Continuous Sampler

UD - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 9 - Lot 03 During Drilling: none After 24 Hours:

					SAI	MPLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	blo	N ws/ft 60	80
	-			SS	7-7-7 14							- · - ·	+ - · -
	-			SS	8-12-12 24						24	- · - ·	
DT 12/19/16	5 —			SS	6-10-11 21			SM	SILTY SAND, non-plastic, medium dense, moist, brown		21 . [- · - ·	
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16	- - -												
PEAKS 88 LOTS	10 —			SS	10-12-9 21						21	- · - ·	+
ZING 1-61003 THE	-	-							Stopped Auger @ 9.5' Stopped Sampler @ 11'	·+	· - · 	- · - ·	
LOG OF TEST BOP	- 15 —	-									- · 	- · - ·	

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 9 - Lot 04 During Drilling: none After 24 Hours:

					SAI	//PLE			SUBSURFACE PROFILE				
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	2	blo	N ws/ft	80
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16	5 —	5 —		SS	5-7-6 13						3 +	- · - ·	
				SS	6-11-12 23					23	- · - ·	 	
				SS 10-12-12 24	10-12-12 24			SM	SILTY SAND, non-plastic, medium dense, moist, brown		24	- · - ·	<u> </u>
	- - -												
	10 —			ss	SS 8-11-14 25	8-11-14 25						25	- · - ·
	_								Stopped Auger @ 9.5' Stopped Sampler @ 11'		· +		
	-								i	· 	- · † - · - · † - ·	† - · - ! ! - · -	
100	15 —									!	· 	- · - ·	<u> </u>

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed



Date: 12/08/2016 Project No: 1-61003

Elevation: Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Blk 9 - Lot 05 During Drilling: none After 24 Hours:

			SAMPLE						SUBSURFACE PROFILE			
	DEPTH (Ft)	907	SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	nsc	DESCRIPTION	20	N blows/ft 40 60	80
LOG OF TEST BORING 1-61003 THE PEAKS 88 LOTS - BLOCK 9.GPJ GEO TEST.GDT 12/19/16	5 —	5 —		SS	6-7-7 14				SILTY SAND, non-plastic, medium dense, moist, brown	14_		· + - · -
			ss	SS	6-7-8 15					15		· - · -
				SS 6	6-10-10			SM		20,		
	-											
	10 —			SS	10-11-10 21					21	· + - · + - i i i i · + - · + -	
	-	_							Stopped Auger @ 9.5' Stopped Sampler @ 11'			· + - · -
	15 —											: - - · -

LEGEND

SS - Split Spoon AC - Auger Cuttings UD/SL - Undisturbed Sleeve AMSL - Above Mean Sea Level CS - Continuous Sampler UD - Undisturbed