

January 16, 2015
File No. 1-41210

The Troughs, LLC
Mr. Bob Prewitt
prewitt@swcp.com
6 Lots in the Peaks
Mariposa Ranch, New Mexico

RE: Geotechnical Engineering Services
Lots 2 thru 5, Block 2; Lot 4, Block 4; and Lot 3, Block 5
Albuquerque, New Mexico

Dear Mr. Newell:

At your request, standard penetration testing was performed on the subject lots on December 31, 2014. Construction of the pads was previously completed and Geo-Test, Inc. provided the geotechnical investigation and construction phase testing. The purpose of the standard penetration testing was to evaluate the relative density of the pads. The SPT tests were completed to a depth of 10 feet.

The test results indicate that the soils are medium dense to dense on all of the lots. Therefore, no over excavation of existing fill will be required on any of the lots, but vegetation removal and surface moisture conditioning to optimum moisture content +/- 2%, processing, and re-compaction to a minimum of 95% of maximum density determined in accordance with ASTM D-1557, should be performed. The boring logs are attached.

It has been a pleasure to serve you on this project. Should you have any questions or need further information, please do not hesitate to contact me.

Sincerely,
GEO-TEST, INC.

Charles M. Miller, P.E.



Reviewed by:

Robert D. Booth, P.E.

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

8528 CALLE ALAMEDA NE
ALBUQUERQUE,
NEW MEXICO
87113
(505) 857-0933
FAX (505) 857-0803

2805-A LAS VEGAS CT.
LAS CRUCES,
NEW MEXICO
88007
(575) 526-6260
FAX (575) 523-1660



Project: Six Lots in the Peaks

Date: 12/31/2014

Elevation:

Project No: 1-41210

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Lot 2 Blk 2

During Drilling: None

After 24 Hours:

DEPTH (Ft)	LOG	SAMPLE					SUBSURFACE PROFILE		
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft
5			SS	6-7-7 14			SM	SILTY SAND, fine to medium grained, non-plastic, medium dense to dense, slightly moist to moist, tan/brown	14
			SS	7-12-14 26					26
			SS	8-11-14 25					25
			SS	9-13-16 29					29
10			SS	12-16-24 40					40
15									
20									
								STOPPED AUGER AT 9.5' STOPPED SAMPLER AT 11'	

LOG OF TEST BORING 1-41210 6 LOTS IN THE PEAKS.GPJ GEO TEST.GDT 1/14/15

LEGEND

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

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: Six Lots in the Peaks

Date: 12/31/2014

Elevation:

Project No: 1-41210

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Lot 3 Blk 2

During Drilling: None

After 24 Hours:

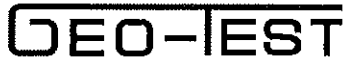
DEPTH (Ft)	LOG	SAMPLE					SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION
								N blows/ft 20 40 60 80
		X	SS	7-7-9 16				16
		X	SS	8-15-22 37				37
5		X	SS	8-16-22 38			SM	38
		X	SS	12-14-15 29				29
10		X	SS	14-17-23 40				40
15								
20								
							STOPPED AUGER AT 9.5' STOPPED SAMPLER AT 11'	

LOG OF TEST BORING 1-41210 6 LOTS IN THE PEAKS.GPJ GEO TEST.GDT 1/14/15

LEGEND

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

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: Six Lots in the Peaks

Date: 12/31/2014

Project No: 1-41210

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Lot 4 Blk 2

During Drilling: None

After 24 Hours:

LOG OF TEST BORING 1-41210 6 LOTS IN THE PEAKS.GPJ GEO TEST.GDT 1/14/15

DEPTH (Ft)	LOG	SAMPLE					SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION
								<p style="text-align: center;">N blows/ft</p> <p style="text-align: center;">20 40 60 80</p>
5		X	SS	8-10-12 22			SM	SILTY SAND, fine to medium grained, non-plastic, medium dense to dense, slightly moist to moist, tan/brown
		X	SS	8-9-13 22				
		X	SS	7-12-13 25				
		X	SS	10-11-13 24				
10		X	SS	12-14-15 29				
15								STOPPED AUGER AT 9.5' STOPPED SAMPLER AT 11'
20								

LEGEND

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

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: Six Lots in the Peaks

Date: 12/31/2014

Project No: 1-41210

Elevation:

Type: 5.5" OD HSA

LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Lot 5 Blk 2

During Drilling: None

After 24 Hours:

LOG OF TEST BORING 1-41210 6 LOTS IN THE PEAKS.GPJ GEO TEST.GDT 1/14/15

DEPTH (Ft)	LOG	SAMPLE						SUBSURFACE PROFILE	
		SAMPLE INTERVAL	TYPE	N. BLOWS/FT	MOISTURE %	DRY DENSITY (pcf)	USC	DESCRIPTION	N blows/ft 20 40 60 80
		X	SS	7-11-13 24					24
		X	SS	8-12-16 28					28
5		X	SS	18-13-17 30			SM	SILTY SAND, fine to medium grained, non-plastic, medium dense to dense, moist, tan/brown	30
		X	SS	8-13-17 30					30
10		X	SS	11-15-17 32					32
								STOPPED AUGER AT 9.5' STOPPED SAMPLER AT 11'	
15									
20									

LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: Six Lots in the Peaks

Date: 12/31/2014

Elevation:

Project No: 1-41210

Type: 5.5" OD HSA

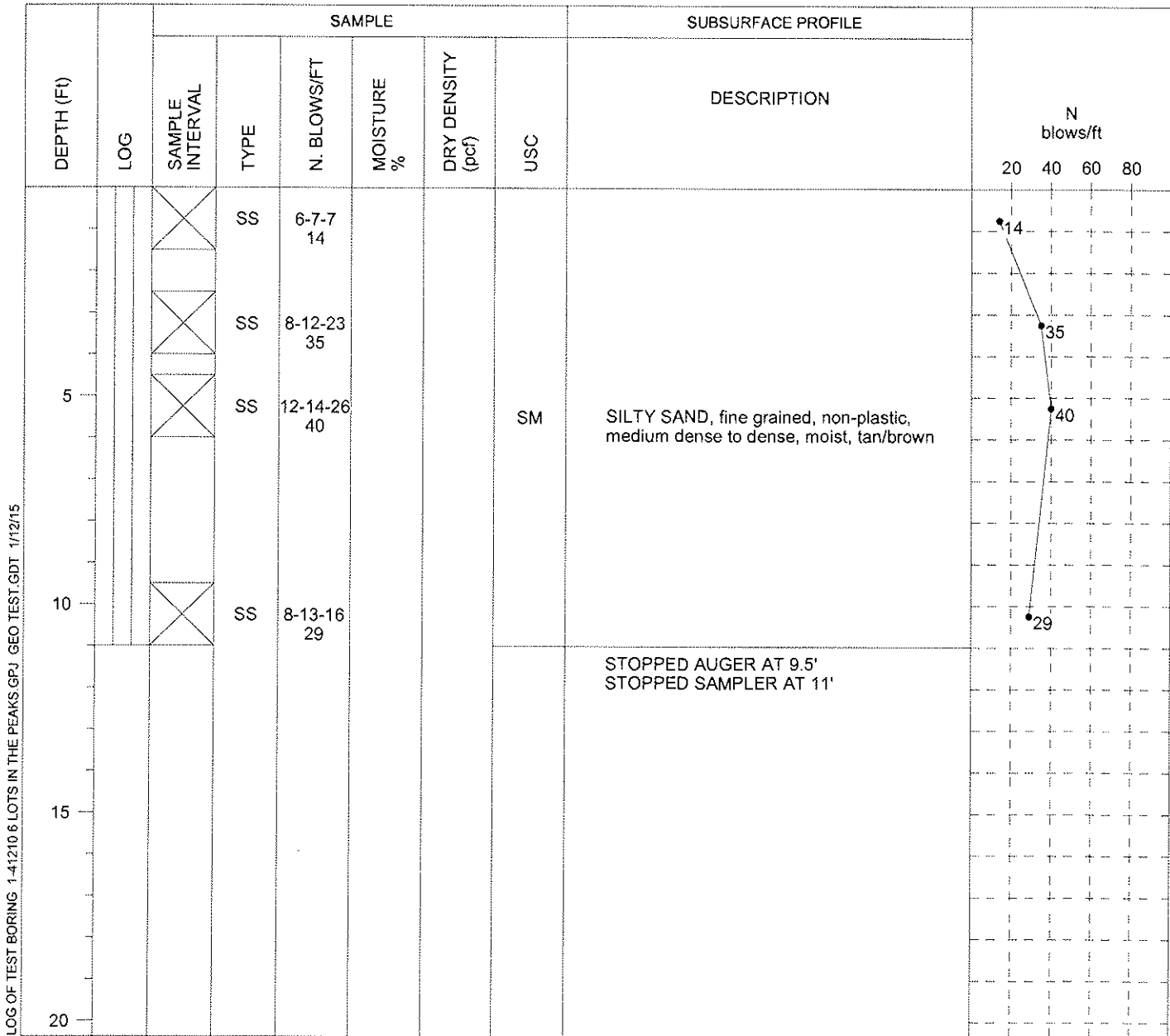
LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Lot 4 Blk 4

During Drilling: None

After 24 Hours:



LOG OF TEST BORING 1-41210 6 LOTS IN THE PEAKS.GPJ GEO TEST.GDT 1/12/15

LEGEND

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

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.



Project: Six Lots in the Peaks

Date: 12/31/2014

Elevation:

Project No: 1-41210

Type: 5.5" OD HSA

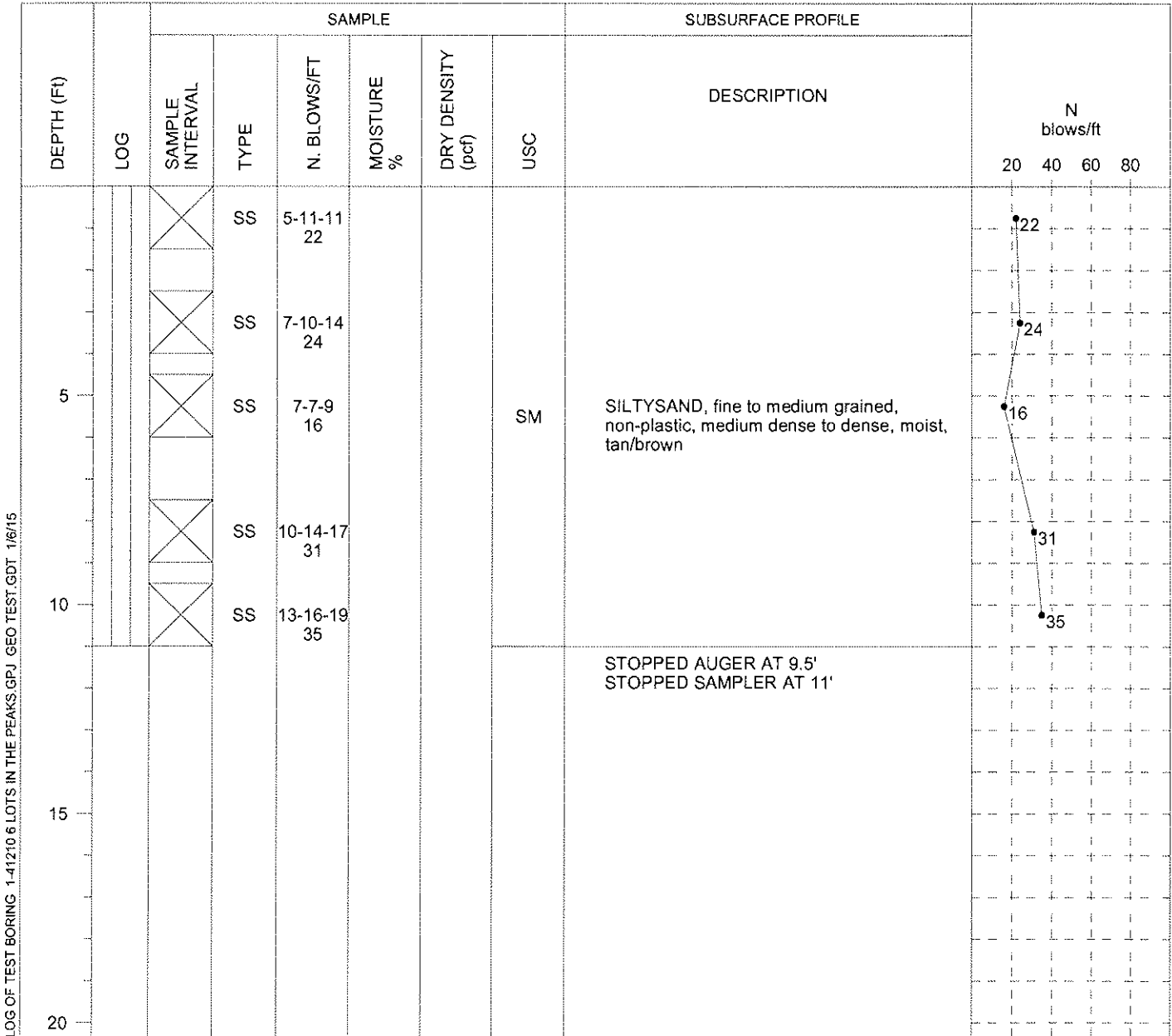
LOG OF TEST BORINGS

GROUNDWATER DEPTH

NO: Lot 3 Blk 5

During Drilling: None

After 24 Hours:



LEGEND

SS - Split Spoon

AC - Auger Cuttings

UD/SL - Undisturbed Sleeve

AMSL - Above Mean Sea Level

CS - Continuous Sampler

UD - Undisturbed

ST - Shelby Tube

Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to factors other than those present at the time measurements were made.