NUS CORPORATION
A Halliburton Company

| Project | TDD No. | Sheet | Hole No. |
|---|---|---|---|
| Wells G & H Remedial Investigation | F1-8409-01 | 1 of 2 | S64 |

| Location | Angle from Horiz. |
|---|---|
| Mass Rifle Assn | Vertical |

| Begun | Completed | Driller | Drill Make & Model | Hole Dia. | Overburden (ft) | Rock (ft) | Total Depth |
|---|---|---|---|---|---|---|---|
| | | NEBC | Mobile B-47 | 3.5 | 35' | 20' | 55' |

| Core Recovery (ft) | Core Box | Samples | El. Top of Casing | Ground El. | Depth to Top of Rock |
|---|---|---|---|---|---|
| 20' | 2 | 8 | | S64S 57.58, S64M 57.74, S64D 57.83 | 35' |

| Sample Hammer Weight/Fall | Casing | NUS Inspector |
|---|---|---|
| 140 lbs/30" | Solid Sch 80 PVC 1.5" I.D.<br>Screen 0.010 slot | Baldyga |

| Depth | Sample No. | ROCK Core/Rec (in) | ROCK RQD | SOIL Pen/Rec (in) | SOIL Depth Interval (ft) | SOIL Blows/6" | Well Construction | Stratum Description | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 01 | | | 24/14 | 0-2 | 1/1/2/3 | | F/M BR SAND | |
| 5 | 02 | | | 24/16 | 5-7 | 6/11/8/5 | | F/M BR SAND | |
| 10 | 03 | | | 24/10 | 9-11 | 11/9/8/12 | | S64S Top of Ottawa sand 9'<br>S64S Top of Screen 10'<br>F/C BR SAND,<br>TR F/C GRAVEL | 1 |
| 15 | 04 | | | 24/10 | 14-16 | 21/17/18/14 | | S64S Bottom of Screen 15'<br>M/C Dark BN SAND, some highly angular C Gravel | |
| 20 | 05 | | | 24/6 | 19-21 | 17/15/21/18 | | M/C Dark BN SAND, some F Gravel | |
| 25 | 06 | | | 24/9 | 24-26 | 31/21/17/18 | | lt BN to tan F SAND, LI Gravel, layered Gravel-Sand-Gravel<br>S64M Top of Ottawa Sand 25'<br>S64M Top of Screen 27' | 2 |
| 30 | 07 | | | 17/14 | 29-31 | 51/57/100-5 | | lt BN F SAND and SILT, LI Gravel<br>S64M Bottom of Screen 32' | |

GRANULAR SOILS

| Blows/Ft | Density |
|---|---|
| 0-4 | V. Loose |
| 4-10 | Loose |
| 10-30 | M. Dense |
| 30-50 | Dense |
| >50 | V. Dense |

PROPORTIONS USED

| | |
|---|---|
| Trace (TR) | 0-10% |
| Little (LI) | 10-20% |
| Some (SO) | 20-35% |
| And | 35-50% |

ABBREVIATIONS

F-Fine
M-Medium
C-Coarse
F/M-Fine to Medium
F/C-Fine to Coarse
V-Very
GR-Gray
BN-Brown
YEL-Yellow

1. Well S64S sealed w/2' bentonite pellet layer from 7' to 9'. Natural backfill from GS to 7'.
2. Well S64M sealed from GS to 25' with 10 to 1 (by weight, estimated) cement to bentonite slurry.

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Location

Mass Rifle Assn

| Depth | ROCK Sample No. | ROCK Core/Rec (in) | ROCK RQD | SOIL Pen/Rec (in) | SOIL Depth Interval (ft) | SOIL Blows/6" | Well Construction | Stratum Description | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 35 | | 60/60 | | | | | | Highly fractured Salem Gabbrodiorite - very angular - brecciated some gouge observable. | |
| 40 | | 60/60 | | | | | | S64D Top of Ottawa sand 38' S64D Top of Screen 40' Highly fractured Salem Gabbrodiorite S64D Top of screen 40' | 3 |
| 45 | | 60/60 | | | | | | less fractured Salem Gabbrodiorite | |
| 50 | | 60/60 | | | | | | More competent Salem Gabbrodiorite | |
| 55 | | | | | | | | S64D Bottom of Screen 55' EOB - 56' | |

REMARKS:

3. Well S64D sealed from GS to 38' with 10 to 1 (by weight, estimated) cement to bentonite slurry.