NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

Camp Dresser & McKee, Inc. 18881 Von Karman Avenue, Suite 650 Irvine, CA 92612 Telephone: (949) 752-5452 Fax: (949) 752-1307

### **BORING/WELL CONSTRUCTION LOG**

| PROJE<br>LOCA <sup>*</sup><br>DRILL<br>SAMPI<br>GROU<br>TOP O | ECT NATION ING MELING MELING MELING MELING ELING F CAS | ME Play THOD TETHOD EVATIO ING | Play /a Vist  Ho  N  27.2 | a A ollo Cut 26 | o-2777<br>'ista<br>rea D<br>w Stem<br>tings<br>.80 ft. | 5-NEW    | r              |                  | CASING TYPE/DIAMETER SCREEN TYPE/SLOT GRAVEL PACK TYPE GROUT TYPE/QUANTITY | 9/2000<br>2" Sch<br>2" Sch 40 P<br>#3 Lonestar<br>Portlan | 40 PVC<br>VC/10 s<br>Sand | lot<br>ent/5% |                                   |                |
|---|--|--------------------------------|---------------------------|-----------------|--|----------|----------------|------------------|--|---|---------------------------|---------------|-----------------------------------|----------------|
| PID (ppm)   | BLOW   | RECOVERY<br>(inches)           | SAMPLE !D.                | EXTENT          | DEPTH<br>(ft. BGL)                                     | U.S.C.S. | GRAPHIC<br>LOG | LITHO            | LOGIC DESCRIPTION  |   | CONTACT                   | ·. \          | WELL DIAGRA                       | ιM             |
| 0   |  |                                |                           |                 | - 5  | CL       |                | SANDY CLAY, WITH | GRAVEL: grayish brown.   |   | 20.0                      |               | 2* Diam.<br>40, PVC<br>(0-62 ft i | onite ogs) Sch |

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### **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

Fax: (949) 752-1307 10610-27775-NEWELLS **PROJECT NUMBER** BORING/WELL NUMBER Playa Vista **PROJECT NAME DATE DRILLED** 03/09/2000 Continued from Previous Page RECOVERY (inches) SAMPLE ID. GRAPHIC LOG CONTACT DEPTH BLOW COUNTS PID (ppm) EXTENT DEPTH (ft. BGL) U.S.C.S. LITHOLOGIC DESCRIPTION **WELL DIAGRAM** 52.0 GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or 0 loose to be collected by the split spoon sampler. -Bentonite Grout (49-59 ft bgs) Bentonite Pellets (59-61 ft bgs) GP #3 Lonestar Sand (61-70 ft bgs) -2" Diam. Sch 40, PVC, 10-slot (62-67 ft bgs) 70.0 Total depth is 70 feet bgs.

| G | IJ | N |  |
|---|----|---|--|

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| Т | ele | phone: | (949)  | 752-545 |
|---|-----|--------|--------|---------|
| _ |     |        | 750 40 | 207     |

| _               | rax. (343) 132-1301 |            |
|-----------------|---------------------|------------|
| PROJECT NUMBER  | 10610-27775-NEWELLS | BORING/WE  |
| PROJECT NAME    | Playa Vista         | DATE DRILL |
| LOCATION Play   | va Vista Area D     | CASING TYP |
| DRILLING METHOD | Hollow Stem Auger   | SCREEN TY  |
| SAMPLING METHOD | Cuttings            | GRAVEL PA  |
| =               |                     |            |

LL NUMBER MMW-77

ED 03/08/2000

PE/DIAMETER 2" Sch 40 PVC PE/SLOT 2" Sch 40 PVC/10 slot

#3 Lonestar Sand CK TYPE

| GROU                                     | IND EL<br>OF CAS | EVATIO               |  | 16.    |                    | /ISL     |                |                   |                        | Portland ( | Ceme             | nt/5% Bent | onite   |
|--|------------------|----------------------|--|--------|--------------------|----------|----------------|-------------------|------------------------|------------|------------------|------------|---|
|  | ED BY            |                      |  |        |                    | Delta)   |                |                   | GROUND WATER ELEVATION | ·          |                  |            |   |
| PID (ppm)                                | BLOW             | RECOVERY<br>(inches) | SAMPLE ID.   | EXTENT | DEPTH<br>(ft. BGL) | U.S.C.S. | GRAPHIC<br>LOG | LITHO             | DLOGIC DESCRIPTION     |            | CONTACT<br>DEPTH | WEL        | L DIAGRAM   |
| 0  |                  |                      |  |        | - 5                | SM       |                | SILTY SAND: brown | , with gravel.         | C.         | 9.0              |            | ←Portland Cement with 5% Bentonite Grout (0-51 ft bgs)  —2" Diam. Sch |
|  |                  |                      |  |        | 15                 | CL       |                |                   |                        |            |                  |            | 40, PVC Blank<br>(0-65 ft bgs)  |
| 100                                      |                  |                      |  |        | -25                | ML       |                | SANDY SILT: olive |                        |            | 23.0             |            |   |
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/10/00 |                  |                      | v reference and the second sec |        | -30-               |          |                |                   |                        |            |                  |            |   |
| NEWGINT PLAYAVIS.GF                      |                  |                      |  |        | -40-               |          |                |                   | Continued Next Page    |            |                  |            | PAGE 1 OF   |

# **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

| PROJECT NUMBER 10610-27775-NEWELLS PROJECT NAME Playa Vista |      |                      |            |        |                    |          |                | BORING/WELL NUMBER MMW-77  DATE DRILLED 03/08/2000  |                  |      |   |  |  |
|---|------|----------------------|------------|--------|--------------------|----------|----------------|---|------------------|------|---|--|--|
|   |      |                      |            | -      | <del></del> -      |          | ····           | Continued from Previous Page  |                  |      |   |  |  |
| PID (ppm)   | BLOW | RECOVERY<br>(inches) | SAMPLE ID. | EXTENT | DEPTH<br>(ft. BGL) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION  | CONTACT<br>DEPTH | WELL | DIAGRAM   |  |  |
| 260   |      |                      |            |        | -45                | CL       |                |   |                  |      | 2" Diam. Sch<br>40, PVC Blank<br>(0-65 ft bgs)  |  |  |
| 260   |      |                      |            |        |                    | GP       |                | GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler. | 58.0             |      | -Bentonite Grout<br>(51-61 ft bgs)<br>-Bentonite<br>Pellets<br>(61-63 ft bgs)<br>-#3 Lonestar<br>Sand<br>(63-70 ft bgs)<br>-2" Diam. Sch<br>40, PVC,<br>10-slot<br>(65-70 ft bgs) |  |  |
|   |      |                      |            |        |                    |          |                | Total depth is 70 feet bgs.   |                  |      | (65-70 π bgs)   |  |  |
| WGINT PLAYAVIS,GPJ NEWGINI,GDI 4/10/00                      |      |                      |            |        |                    |          |                |   |                  |      |   |  |  |



| PROJ<br>LOCA<br>DRILL<br>SAMP<br>GROL<br>TOP ( | ECT NATION LING MI LING M JIND EL OF CAS | AME Pla ETHOD SETHOL EVATION ING E. | Pla<br>ya Vis<br>H<br>)<br>N<br> | ya V<br>ta A<br>ollo<br>Cut<br>11 | rea D w Ster tings .60 ft. | n Auge   | r              |  | BORING/WELL NUMBER MMW-82  DATE DRILLED 3/10/2000  CASING TYPE/DIAMETER 2" Sch 40 PVC  SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slo  GRAVEL PACK TYPE #3 Lonestar Sand  GROUT TYPE/QUANTITY Portland Cement  DEPTH TO WATER NM  GROUND WATER ELEVATION |                      |     |  |  |  |
|--|--|-------------------------------------|----------------------------------|-----------------------------------|----------------------------|----------|----------------|--|---|----------------------|-----|--|--|--|
| PID (ppm)                                      | BLOW<br>COUNTS                           | RECOVERY<br>(inches)                | SAMPLE ID.                       | EXTENT                            | DEPTH<br>(ft. BGL)         | U.S.C.S. | GRAPHIC<br>LOG | LITHO  | LOGIC DESCRIPTION   | CONTACT              | WEI | LL DIAGRAM   |  |  |
|  |  |                                     |                                  |                                   | -1015                      | SM       |                | CLAY WITH SAND A slightly plastic.  SAND, TRACE SILT: micaceous, very wet.  SANDY CLAY: grayls very wet. | ND GRAVEL: brown (5YR4/2);  | 10.0<br>15.0<br>25.0 |     | Portland Cement with 5% Bentonite Grout (0-56 ft bgs)  -2" Diam. Sch 40, PVC Blank (0-64 ft bgs) |  |  |

PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

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Telephone: (949) 752-5452 **BORING/WELL CONSTRUCTION LOG** Fax: (949) 752-1307 **PROJECT NUMBER** 10610-27775-NEWELLS BORING/WELL NUMBER MMW-82 PROJECT NAME Playa Vista DATE DRILLED 3/10/2000 Continued from Previous Page RECOVERY (inches) PID (ppm) SAMPLE ID. BLOW GRAPHIC LOG EXTENT U.S.C.S. DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION WELL DIAGRAM CL Portland Cement with 5% Bentonite Grout (0-56 ft bgs) -2" Diam. Sch 40, PVC Blank (0-64 ft bgs) Bentonite Pellets (56-61 ft bgs) 59.0 GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sample. #3 Lonestar Sand (61-69 ft bgs) GP 2" Diam. Sch 40, PVC, 10-slot (64-69 ft bgs) 69.0 Total depth is 69 feet bgs.

|  |         |                      |            |  |                    |          | e: (949<br>9) 752- | 1307   | BORING/WI  | ELL CON       | 491              | nucii        | ON LUG   |
|--|---------|----------------------|------------|--|--------------------|----------|--------------------|--|--|---------------|------------------|--------------|--|
| PROJ                                     | ECT NL  | MBER                 | 1(         | 0610   |                    |          |                    |  | BORING/WELL NUMBER   | MMW-103       | 3                |              | <del></del>  |
| PROJ                                     | ECT NA  | ME                   | Play       | /a Vi  | ista               |          |                    |  |  | 3/2000        |                  |              |  |
| ţ  | TION    | Pla                  |            |  |                    |          |                    |  | CASING TYPE/DIAMETER   | 2" Sch 4      | 0 PVC            |              |  |
| DRIL                                     | LING ME | ETHOD                | <u>H</u>   | ollov  | v Stem             | Auger    | •                  |  | SCREEN TYPE/SLOT   | 2" Sch 40 PV  | C/10 st          | lot          |  |
|  | LING N  |                      |            |  |                    |          |                    |  | GRAVEL PACK TYPE _   | #3 Lonestar S | Sand             |              |  |
| GRO                                      | JND EL  |                      |            |  |                    |          |                    |  | GROUT TYPE/QUANTITY  |               | Ceme             | nt/5% Bent   | onite  |
| TOP                                      | OF CAS  | ING                  | 20.        | 70 ft.                                       | MSL_               |          |                    |  | DEPTH TO WATER N   |               |                  | <del> </del> |  |
|  | SED BY  | <u>R.</u>            | Lopez      | <u>.                                    </u> |                    |          |                    |  | GROUND WATER ELEVA   | TION          |                  |              | · · · · · · · · · · · · · · · · · · ·  |
| REMA                                     | ARKS    |                      |            |  |                    |          |                    |  |  |               |                  |              |  |
| PID (ppm)                                | BLOW    | RECOVERY<br>(inches) | SAMPLE ID. | EXTENT                                       | DEPTH<br>(ft. BGL) | U.S.C.S. | GRAPHIC<br>LOG     | •  | OLOGIC DESCRIPTION   |               | CONTACT<br>DEPTH | WELI         | L DIAGRAM  |
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00 |         |                      |            |  | - 15               | ML       |                    | SILT: grayish black of the control o | brown (10YR4/3), very fine (2.5/5GY), slightly plastic, so yish black (2.5/5GY). | oft.          | 20.0             |              | F-Portland Cement with 5% Bentonite Grout (0-48 ft bgs)  —2" Diam. Sch 40, PVC Blank (0-60 ft bgs) |
| į.                                       |         |                      | 1          |  | <del>-40-</del>    | 1        | 1/2                |  | Continued Next Page  |               |                  | L43 V43      | L  |

NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

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| BORING/WELL | CONSTRUCTION | LOG |
|-------------|--------------|-----|
|-------------|--------------|-----|

PAGE 2 OF 2

Fax: (949) 752-1307 10610-27775-NEWELLS BORING/WELL NUMBER MMW-103 Playa Vista **PROJECT NAME** DATE DRILLED 03/08/2000 Continued from Previous Page RECOVERY (inches) GRAPHIC LOG BLOW COUNTS SAMPLE ID. PID (ppm) EXTENT U.S.C.S. DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION WELL DIAGRAM Portland Cement with 5% Bentonite Grout (0-48 ft bgs) 2" Diam. Sch 40, PVC Blank (0-60 ft bgs) 55.0 SAND/GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were to fluid and/or loose to be collected by the split spoon sampler. Bentonite Pellets (57-64 ft bgs) GP #3 Lonestar Sand (64-70 ft bgs) -2" Diam. Sch 40, PVC, 10-slot 70.0 (65-70 ft bgs) Total depth is 70 feet bgs.

# BORING/WELL CONSTRUCTION LOG

| 2000      | :OT 801  | MBER                 | 40         | 610    |   | X: (949<br>:-NFWI | •              |                                      | BORING/WELL NUMBER MMW-112     | 2                   |   |
|-----------|----------|----------------------|------------|--------|---|-------------------|----------------|--------------------------------------|--------------------------------|---------------------|---|
|           | ECT NU   |                      | Play       |        |   |                   |                |                                      |                                |                     |   |
|           |          | Play                 |            |        |   |                   |                |                                      | CASING TYPE/DIAMETER 2" Sch 4  | o PVC               | ·   |
|           |          |                      |            |        |   |                   |                |                                      | SCREEN TYPE/SLOT 2" Sch 40 PV  |                     | slot  |
|           |          | ETHOD                |            |        |   |                   |                |                                      | GRAVEL PACK TYPE #3 Lonestar S |                     |   |
|           |          | EVATIO               |            |        |   |                   |                |                                      | \                              |                     | ent/5% Bentonite  |
|           |          | NG .                 |            |        |   |                   |                |                                      |                                |                     |   |
| i         |          | _ATI                 | F (Gro     | up L   | Delta)                                      |                   |                |                                      | GROUND WATER ELEVATION         |                     |   |
| REMA      | RKS      |                      |            |        |   |                   |                |                                      |                                |                     |   |
| PID (ppm) | BLOW     | RECOVERY<br>(inches) | SAMPLE ID. | EXTENT | DEPTH<br>(ft. BGL)                          | U.S.C.S.          | GRAPHIC<br>LOG | LITHC                                | PLOGIC DESCRIPTION             | CONTACT<br>DEPTH    | WELL DIAGRAM  |
| ) GIA O   | noo<br>B | RECO (incl           | SAMP       | EXI    | 130 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | S'N SC            | CHA CHA        | CLAY: dark gray.  CLAY: gray, some s | wn.                            | 8.0<br>22.0<br>25.0 | Portland Cement with 5% Bentonite Grout (0-47 ft bgs)  2" Diam. Sch 40, PVC Blank (0-60 ft bgs) |
|           |          |                      |            |        | 40-   | CL                |                |                                      |                                |                     |   |
| <u> </u>  | 1        | 1                    | <u></u>    |        | 40-   | 1                 |                | <u> </u>                             | Continued Next Page            |                     | PACE 4 OF   |

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### BORING/WELL CONSTRUCTION LOG

PAGE 2 OF

Fax: (949) 752-1307 10610-27775-NEWELLS **BORING/WELL NUMBER** MMW-112 **PROJECT NUMBER** 03/08/2000 Playa Vista DATE DRILLED **PROJECT NAME** Continued from Previous Page RECOVERY (inches) GRAPHIC LOG CONTACT DEPTH SAMPLE ID. BLOW COUNTS PID (ppm) EXTENT DEPTH (ft. BGL) U.S.C.S. LITHOLOGIC DESCRIPTION **WELL DIAGRAM** 40 Portland Cement with 5% Bentonite Grout (0-47 ft bgs) -Bentonite Grout (47-57 ft bgs) 52.0 POORLY GRADED GRAVEL: The lithology was determined by the driller by the rough drilling conditions. As the augers were recovered from the hole, well rounded gravel from 1/2" to 1 1/2" were transported to the surface 2" Diam. Sch 40, PVC Blank (0-60 ft bgs) in a thick clay matrix that was likely to have been collected as the augers were withdrawn. Samples were to fluid and/or loose to be collected by the split spoon sampler. #3 Lonestar Sand (57-65 ft bgs) GP 2" Diam. Sch 40, PVC, 10-slot (60-65 ft bgs) 65.0 65 20 Total depth is 65 feet bgs. VEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/10/00

| PROJE<br>LOCAT<br>DRILLI<br>SAMPI<br>GROU<br>TOP O | ECT NA<br>FION<br>ING ME<br>LING M<br>ND ELE<br>F CASI | ME Play THOD ETHOD | Playa va Vista Hol C N 20.79 Schinsi | Vista<br>Area<br>Iow Si<br>utting<br>21.1 ft | D<br>em Auge<br>s<br>. MSL<br>SL | VELLS |   | SCREEN TYPE/SLOT 2" Sch 40 GRAVEL PACK TYPE #3 Lones  | ch 40 PVC<br>PVC/10 s<br>tar Sand | 1   |
|--|--|--------------------|--------------------------------------|--|----------------------------------|-------|---|---|-----------------------------------|---|
| PI   | ≖S   | REC<br>(ir         | SAN                                  |  | 5 0                              | ភ្ជ   |   |   | 83                                |   |
| 0.0/   |  |                    |                                      |  | 5 - SP                           |       | (FILL) SILTY SAND,<br>(2.5Y3/2), very fine to | LITTLE CLAY: grayish brown<br>o medium sand, wet.   | 10.0                              | Portland Cement with 5% Bentonite Grout (0-63 ft bgs) |
| 0.0/   |  |                    |                                      |  | 5                                |       | CLAY, LITTLE SAND<br>plastic, wet.            | D: grayish brown (2.5Y3/2), non   | 10.0                              | 2º Diam, Sch<br>40, PVC Blank<br>(0-74 ft bgs)        |
| 3.0/<br>0.0  |  |                    |                                      |  | CL                               |       |   |   |                                   |   |
| 1.2/<br>0.0  |  |                    |                                      |  | 25                               |       | CLAYEY SAND: gra<br>fluid, slight H₂S odor    | y (5Y4/2), fine to medium sand, very  | 25.0                              |   |
| No<br>Readir                                       | <b>G</b>   |                    |                                      |  | 30-                              |       | gravish brown (2.5Y                           | ncrease in clay. Color change to<br>4/2), medium to coarse sand,<br>ded, high sphericity; pyrite and mica | 30.0                              |   |
| 0.0/   |  |                    |                                      |  | 35-                              |       |   | Continued Next Page   |                                   | PAGE 1 OF 2   |

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**BORING/WELL CONSTRUCTION LOG** Telephone: (949) 752-5452 Fax: (949) 752-1307 BORING/WELL NUMBER MMW-153 10610-27775-NEWELLS 02/28/2000 DATE DRILLED Playa Vista **PROJECT NAME** Continued from Previous Page RECOVERY (inches) GRAPHIC CONTACT DEPTH SAMPLE ID. BLOW PiD (ppm) U.S.C.S. EXTENT DEPTH (ft. BGL) WELL DIAGRAM LITHOLOGIC DESCRIPTION 0.0/ Portland

Cement with 5% Bentonite Grout 0.0/ (0-63 ft bgs) SC 2.5/ 0.0 -2" Diam, Sch 40, PVC Blank (0-74 ft bgs) 0.0/ 0.0 0.0/ 0.0 Bentonite Pellets (63-73 ft bgs) 69.0 GRAVEL: very coarse, 1/2-1" sub-rounded gravel, quartzitic in clay matrix as described from, cutting returned from auger bit during withdraw. Samples were too fluid and/or loose to be collected by the split spoon sampler. #3 Lonestar Sand (73-79 ft bgs) NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00 78.0 -2" Diam, Sch 40, PVC 10-slot SAND: driller noted softer drilling conditions. Actual SP 79.0 samples could not be collected. (74-79 ft bgs) PAGE 2 OF 2

# BORING/WELL CONSTRUCTION LOG

| PROJ<br>LOCA<br>DRILL<br>SAMP<br>GROU  | ECT NATION ING MELING MIND ELING FOR CASED BY | Plate | Playya Vist | ya Vita Ar<br>ollov<br>Cutt<br>20.<br>07 ft | ista<br>rea D<br>w Stem<br>tings<br>.10 ft. M | Auge     |                |  | DATE DRILLED 02/28/2000  CASING TYPE/DIAMETER 2" Sch 40 PVC  SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  GRAVEL PACK TYPE #3 Lonestar Sand  GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  DEPTH TO WATER NM  GROUND WATER ELEVATION |         |                  |  |  |  |
|--|---|---|-------------|---|---|----------|----------------|--|---|---------|------------------|--|--|--|
| PID (ppm)  | BLOW  | RECOVERY<br>(inches)  | SAMPLE ID.  | EXTENT                                      | DEPTH<br>(ft. BGL)                            | U.S.C.S. | GRAPHIC<br>LOG | LITHOL   | OGIC DESCRIPTION  |         | CONTACT<br>DEPTH | WELL DIAGRAM   |  |  |
| 0.0/<br>0.0<br>0.0/<br>0.0<br>0.0/<br>0.0                                      |   | H   | 18          |   | -152025                                       | SP       |                | SAND: brown (10YR3   | CLAY: reddish brown (5YR bunded, angular, very moist.   | ounded. | 20.0             | Cement with 5% Bentonite Grout (0-62 ft bgs)  2" Diam. Sch 40, PVC Blank (0-74 ft bgs) |  |  |
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |   |   |             |   | 30-   | CL       |                | Some yellow staining  CLAYEY SAND: gray angular to subrounde | rish brown (5Y 4/2), coarse s   | sand,   | 35.0             |  |  |  |
| NEWGINT PLAY   |   |   |             |   | 40-   |          |                |  | ontinued Next Page  |         |                  |  |  |  |

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### **BORING/WELL CONSTRUCTION LOG**

PROJECT NUMBER

10610-27775-NEWELLS

PROJECT NAME Playa Vista

BORING/WELL NUMBER

MMW-175

DATE DRILLED 02/28/2000

| PID (ppm)                   | BLOW | RECOVERY<br>(inches) | SAMPLE ID. | EXTENT | DEPTH<br>(ft. BGL) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION  | CONTACT<br>DEPTH | . WELI | DIAGRAM   |
|-----------------------------|------|----------------------|------------|--------|--------------------|----------|----------------|---|------------------|--------|---|
| 0.0/<br>0.0<br>0.0/<br>0.0/ | ·    |                      |            |        | 45                 |          |                |   |                  |        | -2" Diam. Sch<br>40, PVC Blant<br>(0-74 ft bgs) |
| 0.0/<br>0.0                 |      |                      |            | -      | <br>-50<br>        | sc       |                |   |                  |        |   |
| 15.0/<br>0.0                |      |                      |            |        | <br>-55<br>        |          |                |   |                  |        |   |
| 28.0/<br>0.0                |      |                      |            |        | 60<br>             |          |                |   |                  |        |   |
| 14.0/<br>0.0                |      |                      |            |        | 65<br>             |          |                | GRAVEL AND SAND: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon | 68.0             |        | Bentonite Pellets (62-72 ft bgs)                |
|                             |      |                      |            |        | 70<br>             | GP<br>SP |                | too fluid and/or loose to be collected by the split spoon sampler. Rounded to subrounded gravel was observed on auger upon withdraw.                                  |                  |        | +#3 Lonestar<br>Sand<br>(72-79 ft bgs)          |
|                             | :    |                      |            |        | 75<br><br>         |          |                |   | 79.0             |        | -2" Diam. Sch<br>40, PVC,<br>10-slot            |
|                             |      |                      | ,          |        |                    |          |                | Total depth is 79 feet bgs.   |                  |        | (74-79 ft bgs)                                  |

## **BORING/WELL CONSTRUCTION LOG**

| 1 1 1                                    | PROJ<br>LOCA<br>DRILL<br>SAMP<br>GROU<br>TOP C | ECT NATION ING MILING IND ELECTRONS OF CASED BY | Pla Pla ETHOD METHOI EVATIO ING SI | Pla<br>ya Vis<br>F<br>D<br>ON<br>17. | ya V<br>ta A<br>lollo<br>Cut<br>17 | 0-2777 /ista rea D w Stem ttings /.80 ft. | Auge     | r              |   | BORING/WELL NUMBER DATE DRILLED 03/07/ CASING TYPE/DIAMETER SCREEN TYPE/SLOT GRAVEL PACK TYPE GROUT TYPE/QUANTITY DEPTH TO WATER NI GROUND WATER ELEVAT | /2000<br>2" Sch 40 P\<br>#3 Lonestar<br>Portland | 40 PVC<br>/C/10 s<br>Sand<br>d Ceme | ent/5% Be |   |
|--|--|---|------------------------------------|--------------------------------------|------------------------------------|---|----------|----------------|---|---|--|-------------------------------------|-----------|---|
|  | PID (ppm)                                      | BLOW  | RECOVERY (inches)                  | SAMPLE ID.                           | EXTENT                             | DEPTH<br>(ft. BGL)                        | U.S.C.S. | GRAPHIC<br>LOG | LITHC   | PLOGIC DESCRIPTION  |  | CONTACT<br>DEPTH                    | WE        | ELL DIAGRAM   |
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00 |  |   |                                    |                                      |                                    | - 10                                      | SM CL ML |                | SAND / SILTY SAND:  CLAY, SOME SILT:  SAND: gray.  CLAY: dark gray. | gray.   |  | 5.0<br>14.0<br>16.0                 |           | Portland Cement with 5% Bentonite Grout (0-45 ft bgs)  2" Diam, Sch 40, PVC Blank (0-57 ft bgs) |

### **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

| DRO       | ECT N | IMBER             |            | 061    | Fa<br>0-2777       |          | 9) 752<br>ÆUS  |   | 17      |       |   |
|-----------|-------|-------------------|------------|--------|--------------------|----------|----------------|---|---------|-------|---|
|           | ECT N |                   |            |        | /ista              | <u> </u> |                | DATE DRILLED 03/07/2000   |         |       |   |
|           |       | <del></del>       |            |        |                    |          |                | Continued from Previous Page  |         |       |   |
| PID (ppm) | BLOW  | RECOVERY (inches) | SAMPLE ID. | EXTENT | DEPTH<br>(ft. BGL) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION  | CONTACT | . WEL | L DIAGRAM   |
|           |       |                   |            |        | - 45               | CL       |                | CLAY, SOME SILT: greenish gray.  H <sub>2</sub> S odor.  GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.  Total depth is 70 feet bgs. | 55.0    |       | Portland Cement with 5% Bentonite Grout (0-48 ft bgs)  -2" Diam, Sch 40, PVC Blank (0-61.5 ft bgs)  -Bentonite Grout (51-63 ft bgs)  -2" Diam, Sch 40, PVC 10-slot (65-70 ft bgs) |

# BORING/WELL CONSTRUCTION LOG

| PRO<br>LOC<br>DRIL<br>SAM<br>GRO<br>TOP<br>LOG | JECT NA<br>ATION<br>LING MI<br>PLING N | ME Pla ETHOD METHOD EVATION | Platya Vis  H  O  17.0 | ya V<br>ta Ai<br>ollov<br>Cuti<br>17<br>63 ft | ista<br>rea D<br>w Stem<br>tings<br>.78 ft. N | Auge<br>//SL | r              | BORING/WELL N DATE DRILLED CASING TYPE/D SCREEN TYPE/S GRAVEL PACK GROUT TYPE/Q DEPTH TO WAT GROUND WATE  | 3/7/2000     OIAMETER | 40 PVC<br>VC/10 s<br>Sand<br>d Ceme | lot  |
|--|--|-----------------------------|------------------------|---|---|--------------|----------------|---|-----------------------|-------------------------------------|--|
| PID (ppm)                                      | BLOW                                   | RECOVERY<br>(inches)        | SAMPLE ID.             | EXTENT  | DEPTH<br>(ft. BGL)                            | U.S.C.S.     | GRAPHIC<br>LOG | LITHOLOGIC DESCRIP  |                       | CONTACT                             | WELL DIAGRAM   |
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00       |  |                             |                        |   | - 5   | ML<br>SP     |                | SILT, LITTLE CLAY: red brown; slightly SAND: reddish-brown; poorly graded; srounded; wet.  SILT: black; firm; slightly moist.  CLAY, LITTLE SILT: black, slightly pla micaceous, pyrite present.  CLAY: gray, moist to wet. | subrounded to         | 5.0<br>10.0<br>15.0<br>20.0         | Portland Cement with 5% Bentonite Grout (0-50 ft bgs)  2" Sch. 40, PVC Blank (0-61 ft bgs) |

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## **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

**PROJECT NUMBER** 

NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

-27775-NEWELLS

BORING/WELL NUMBER

MMW-211 PROJECT NAME Playa Vista DATE DRILLED 3/7/2000 Continued from Previous Page RECOVERY (inches) GRAPHIC LOG SAMPLE ID. PID (ppm) BLOW CONTACT DEPTH EXTENT U.S.C.S. DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION WELL DIAGRAM CL Portland 45.0 Cement with 5% Bentonite SAND WITH CLAY: gray; poorly graded; subangular to subrounded; very wet Grout (0-50 ft bgs) 2" Sch. 40, **PVC Blank** SP (0-61 ft bgs) -Bentonite Pellets (50-60 ft bgs) 56.0 GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler. -#3 Lonestar Sand (60-66 ft bgs) 2" Sch. 40, PVC 10-slot (61-66 ft bgs) 67.0 Total depth is 67 feet bgs.

# **BORING/WELL CONSTRUCTION LOG**

| PROJE<br>LOCAT<br>DRILLI<br>SAMPI<br>GROU<br>TOP O | ECT NATION ING MELING M ND ELI F CASI | MBER ME Play THOD ETHOD VATION NG M. | Plays a Vista Ho N 29.8 | 610-<br>a Vis<br>a Are<br>ollow<br>Cutti<br>27.4<br>9 ft. | eta<br>ea D<br>Stem<br>ngs<br>40 ft. M | Auger    |                |  | GRAVEL PACK TYPE GROUT TYPE/QUANTITY   | /2000  3 2" Sch 40  2" Sch 40 PV0  #3 Lonestar S  Portland  NM  ATION | D PVC<br>C/10 sl     |   |
|--|---------------------------------------|--------------------------------------|-------------------------|---|--|----------|----------------|--|--|---|----------------------|---|
| PID (ppm)  | BLOW                                  | RECOVERY<br>(inches)                 | SAMPLE ID.              | EXTENT  | DEPTH<br>(ft. BGL)                     | U.S.C.S. | GRAPHIC<br>LOG |  | LOGIC DESCRIPTION  |   | CONTACT<br>DEPTH     | WELL DIAGRAM  |
|  |                                       |                                      |                         |   | -5<br>-10<br>-15<br>-25<br>-35<br>-35  | CL       |                | (FILL) SAND: brown subrounded to round (FILL) SILT: very data loose. | k brown (7.5YR2.5/2), soft,  (7.5YR5/4), very fine to fir ded, moderate to high sphe ark brown (7.5YR2.5/2), sof | ne,<br>ericity.   | 25.0<br>30.0<br>35.0 | Portland Cement with 5% Bentonite Grout (0-67 ft bgs)  2" Diam, Sch 40, PVC Blank (0-77 ft bgs) |

|               | Fax. (948) /32-130/ |                            |   |
|---------------|---------------------|----------------------------|---|
| ROJECT NUMBER | 10610-27775-NEWELLS | BORING/WELL NUMBER MMW-226 |   |
| PROJECT NAME  | Playa Vista         | DATE DRILLED               | _ |
|               |                     |                            |   |

| PID (ppm) | BLOW | RECOVERY<br>(inches) | SAMPLE ID. | EXTENT | DEPTH<br>(ft. BGL)       | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION   | CONTACT | WELL DIAG             | RAM  |
|-----------|------|----------------------|------------|--------|--------------------------|----------|----------------|--|---------|-----------------------|--|
|           |      |                      |            |        | <br><br>                 | CL       |                | Color change to gray (3/N).  | 45.0    |                       |  |
|           |      |                      |            |        | <br><br>50               | CL       |                | Color change to very dark gray (5/N).  | 50.0    | * Portli              | and  |
|           |      |                      |            |        | - 55-                    |          |                | CLAYEY SAND: gray (5/N), saturated.  |         | 5% E<br>Grou          | ent with<br>Sentonite<br>t<br>ft bgs)            |
|           |      |                      |            |        | -60-                     | sc       |                |  |         | 2" D<br>40, I         | iam, Sch<br>PVC Blan<br>7 ft bgs)                |
|           |      |                      |            |        | -<br>-<br>-<br>-70-<br>- |          |                | POORLY GRADED SAND/GRAVEL: Conclusion drawn  | 72.0    | <b>≺</b> -Ben<br>Pell | ets  |
|           |      |                      |            |        | 75-<br><br>80-           | SP       |                | from the experience of the driller. The sand is too fluid to be collected with the split spoon. Coarse sand is mixed with clay on the bottom augers. The clay is likely to have been collected by the augers on the way out of the hole. Coarse sand and fine gravel (1/4" to 1/2" diameter, angular to rounded, low to moderate sphericity) were circulated from the casing during development. |         | #3 I<br>Sam<br>(76:   | onestar od 84 ft bgs Diam, Sch PVC 10- 82 ft bgs |
|           |      |                      |            |        | ŀ                        | 1_       |                | Total Depth is 83.6 feet bgs.  | 83.6    |                       |  |

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| PROJ<br>LOCA<br>DRILI<br>SAMI<br>GROU<br>TOP | ATION LING MI PLING M UND EL | Pla Pla ETHOD METHOD EVATION | Pla<br>tya Vis<br>F<br>D –<br>ON – | ya Vista Are<br>follow<br>Cutti<br>20.*<br>06 ft. | sta<br>ea D<br>Stem<br>ngs<br>10 ft. M | Auge | · · | LITHO                   | GRAVEL PACK TYPE GROUT TYPE/QUANTITY DEPTH TO WATER GROUND WATER ELEVA LOGIC DESCRIPTION | 9/2000 R 2" Sch 2" Sch 40 P #3 Lonestar Portlan NM TION | 40 PVC<br>VC/10 s<br>Sand<br>nd Ceme | slot ent/5% Bentonite  WELL DIAGRAM   |
|--|------------------------------|------------------------------|------------------------------------|---|--|------|-----|-------------------------|--|---|--------------------------------------|---|
|  |                              |                              |                                    |   | -15                                    | CL   |     | sand, slightly plastic. | t brown (10YR6/4), fine to   |   | 27.0                                 | Portland Cement with 5% Bentonite Grout (0-59 ft bgs)  2" Diam, Sch 40, PVC Blank (0-70 ft bgs) |
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00     |                              |                              |                                    |   | -35                                    | CL   |     | Color change to dark    | gray.<br>ntinued Next Page   |   | 35.0                                 | PAGE 1 OF 2   |

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### **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

Fax: (949) 752-1307 10610-27775-NEWELLS MMW-244 PROJECT NUMBER **BORING/WELL NUMBER PROJECT NAME** Playa Vista DATE DRILLED 02/29/2000 Continued from Previous Page RECOVERY (inches) SAMPLE 1D. GRAPHIC LOG BLOW COUNTS U.S.C.S. PID (ppm) EXTENT DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION WELL DIAGRAM Portland Cement with 5% Bentonite Grout (0-59 ft bgs) -2" Diam, Sch 40, PVC Blank (0-70 ft bgs) 60.0 Little fine sand. Bentonite CL Pellets (58-68 ft bgs) 65.0 POORLY GRADED SAND/GRAVEL: The sand and gravel interval was determined by the driller since the lithology is to saturated to be sampled by the split spoon. GP #3 Lonestar Sand (68-75 ft bgs) 2" Diam, Sch 40, PVC 10-slot 75.0 (70-75 ft bgs) Total depth is 75 ft bgs. PLAYAVIS.GPJ NEWGINT.GDT

| <b>BORING/WEI</b> | _L | CONSTRUCTION | 11 | _0 | C |
|-------------------|----|--------------|----|----|---|
|-------------------|----|--------------|----|----|---|

| PROJE<br>LOCAT<br>DRILLI<br>SAMPI<br>GROUNTOP O | ING ME<br>LING MI<br>IND ELE<br>OF CASII<br>ED BY<br>RKS | ME Play THOD ETHOD EVATION | Playa<br>ya Vista<br>Ho<br>N<br>14.3<br>Hoffma | a Visa Are<br>ollow<br>Cutti<br>10.<br>3 ft.<br>an | ista<br>rea D<br>w Stem<br>tings<br>.75 ft. N | 5-NEW                                   |                 |                      | CASING TYPE/DIAMETER 2" Sch SCREEN TYPE/SLOT 2" Sch 40 P GRAVEL PACK TYPE #3 Lonestar GROUT TYPE/QUANTITY Portlan DEPTH TO WATER NM | 40 PVC<br>PVC/10 sl<br>r Sand<br>nd Cemer | -                            |                                    |
|---|--|----------------------------|--|--|---|---|-----------------|----------------------|---|---|------------------------------|------------------------------------|
| ā.  | O  | RE (                       | SA   | -44  | -   | SP                                      | )<br> <br> <br> | to angular sand, mod | 2.5Y5/1), very fine to fine, subrounded derate to high sphericity.  | 5.0                                       | * Portland                   | di .                               |
|   |  |                            |  |  | - 5   | CL                                      |                 |                      | yish brown (2.5Y3/2), soft.  v dark gray (3/N); slightly plastic, soft.   | 10.0                                      | Cement 5% Ben Grout (0-48 ft | t with ntonite bgs) n, Sch C Blank |
|   |  |                            |  |  | - 15<br>                                      | CL                                      |                 | Strong sulfur odor.  |   | 15.0                                      |                              |                                    |
|   |  |                            |  |  | 20<br>  | CL                                      |                 |                      | y (5/N); moderate sulfur odor.  y (5/N), very fine to fine, saturated.  | 25.0                                      |                              |                                    |
|   |  |                            |  |  | -30-  | # T T T T T T T T T T T T T T T T T T T |                 | J. S. Grand. gie     |   |   |                              |                                    |
|   |  |                            |  |  | -35-  | sc sc                                   |                 |                      |   |   |                              |                                    |
|   |  |                            |  |  | -40-  | -                                       | 1//             | 1                    | Continued Next Page   |   | KW KW                        |                                    |

Continued Next Page

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**BORING/WELL CONSTRUCTION LOG** Telephone: (949) 752-5452 Fax: (949) 752-1307 MMW-272 BORING/WELL NUMBER 10610-27775-NEWELLS DATE DRILLED 1/28/2000 Playa Vista PROJECT NAME Continued from Previous Page RECOVERY (inches) GRAPHIC LOG SAMPLE ID. BLOW U.S.C.S. PID (ppm) **EXTENT** DEPTH (ft. BGL) WELL DIAGRAM LITHOLOGIC DESCRIPTION Portland Cement with 5% Bentonite Grout 45.0 (0-48 ft bgs) Increase in clay, decrease in sand. SC -2" Diam, Sch 40, PVC Blank (0-61.5 ft bgs) 50.0 CLAY WITH SAND: gray (5/N), very fine to fine sand, slightly plastic, soft. CL ←Bentonite 55.0 Pellets (48-59 ft bgs) POORLY GRADED SAND/GRAVEL: The sand and gravel interval was determined by the driller since the lithology is to saturated to be sampled by the split spoon. #3 Lonestar Sand (59-66.5 ft bgs) SP ĞP -2" Diam, Sch 40, PVC 10-slot (61.5-66.5 ft bgs) 65 -Slough Bottom 68.0 Total Depth is 68 ft bgs. NEWGINT PLAYAVIS.GPJ NEWGINT.GDT

PAGE 2 OF 2

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|   | Playa Vista  /a Vista Area D  Hollow Stem Aug  Cuttings  N 12.41 ft. MSL | ger    | DEPTH TO WATER NM   | 40 PVC<br>VC/10 sle<br>Sand<br>ad Cemer | 01  |
|---|--|--------|---|---|---|
| PID (ppm) BLOW COUNTS RECOVERY (inches)                                 | SAMPLE ID.  EXTENT DEPTH (ft. BGL)                                       |        | LITHOLOGIC DESCRIPTION  | CONTACT                                 | WELL DIAGRAM  |
| 10 18 15 20 3 18 5 5 18 5 5 18 7 11 18 18 18 18 18 18 18 18 18 18 18 18 |  |        | (FILL) SANDY SILT: very dark grayish brown (10YR3/2); very fine to fine sand.  (FILL) SAND: brown (10YR5/3), very fine to fine, angular to rounded, low to high sphericity.  CLAY: black (2.5/N); slightly plastic, firm.  SILT: dark gray (2.5Y4/1); slightly plastic, soft, micaceous.  SILT, LITTLE SAND: dark gray (2.5Y4/1), very fine to fine sand, trace sea shells. | 15.0                                    | Portland Cement with 5% Bentonite Grout (0-45 ft bgs)  2" Diam, Sch 40, PVC Blank (0-57 ft bgs) |
| IN PLATAVISION NEWS   | -35-   |        | POORLY GRADED SAND WITH SILT: dark gray (2.5Y4/1); too fluid to be sampled by split spoon.  | 35.0                                    |   |
| i k   | -40-   | : 4:14 | Continued Next Page   |   | PAGE 1 OF   |

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## **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

MMW-276 BORING/WELL NUMBER 10610-27775-NEWELLS DATE DRILLED 1/27/2000 Playa Vista PROJECT NAME Continued from Previous Page CONTACT DEPTH RECOVERY (inches) GRAPHIC LOG SAMPLE ID. BLOW COUNTS EXTENT DEPTH (ft. BGL) U.S.C.S. PID (ppm) WELL DIAGRAM LITHOLOGIC DESCRIPTION SP Portland SM Cement with 5% Bentonite Grout (0-45 ft bgs) 2" Diam, Sch 40, PVC Blank (0-61.5 ft bgs) 51.0 POORLY GRADED GRAVEL: The lithology was -Bentonite determined by the driller by the rough drilling conditions. Pellets As the augers were recovered from the hole, well rounded GP (45-55.5 ft bgs) gravel from 1/2" to 1 1/2" were transported to the surface in a thick clay matrix that was likely to have been collected 55.0 as the augers were withdrawn. Samples were to fluid and/or loose to be collected by the split spoon sampler.
POORLY GRADED SAND: The change in lithology was -#3 Lonestar Sand determined by the driller by the increased smoothness in (55.5-62 ft bgs) the drilling. As the augers were recovered from the hole, coarse sand was transported to the surface in a thick clay SP 2" Diam, Sch 40, PVC 10-slot matrix that was likely to have been collected as the augers were withdrawn. (57-62 ft bgs) 60 62.0 A split spoon sample was attempted several times at 62 0 feet bgs, however, the sediment was too fluid and/or loose to be collected by the split spoon. Total Depth is 62 ft bgs. NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/10/00

### **BORING/WELL CONSTRUCTION LOG**

| PRO<br>LOC<br>DRII<br>SAN<br>GRO<br>TOP<br>LOC | ATION LLING M PLING M OUND EL OF CAS | Pla Pla ETHOD METHOD EVATION | Pla<br>ya Vis<br>H<br>D _<br>ON _ | ya V<br>ta A<br>lollo<br>Cut<br>11 | 0-2777 /ista trea D w Stem ttings 1.60 ft. I | 5-NEV | <u>r</u> .                                | DATE DRILLED 3/8/200 CASING TYPE/DIAMETER SCREEN TYPE/SLOT 2 GRAVEL PACK TYPE # GROUT TYPE/QUANTITY | 2" Sch 40 P\ #3 Lonestar Portlane | 40 PVC<br>/C/10 s<br>Sand<br>d Ceme | ent/5% Bento |   |
|--|--------------------------------------|------------------------------|-----------------------------------|------------------------------------|--|-------|---|---|-----------------------------------|-------------------------------------|--------------|---|
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00       | 88                                   | REC<br>(ir                   | SAM                               | <u>(3</u>                          | - 10   | CL CL | дер — — — — — — — — — — — — — — — — — — — |   |                                   | 9.0                                 |              | Portland Cement with 5% Bentonite Grout (0-34 ft bgs)  2" Diam. Sch 40, PVC Blank (0-54 ft bgs) |

NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

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### **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

10610-27775-NEWELLS PROJECT NUMBER **BORING/WELL NUMBER** MMW-319 PROJECT NAME Playa Vista DATE DRILLED 3/8/2000 Continued from Previous Page RECOVERY (inches) BLOW SAMPLE ID. GRAPHIC LOG PID (ppm) EXTENT DEPTH (ft. BGL) U.S.C.S. LITHOLOGIC DESCRIPTION **WELL DIAGRAM** ·Volclay Grout (34-48 ft bgs) 2" Diam. Sch 40, PVC Blank GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler. (0-54 ft bgs) Bentonite Pellets (48-52 ft bgs) #3 Lonestar GP Sand (52-59 ft bgs) 2" Diam. Sch 40, PVC, 10-slot (54-59 ft bgs) 60.0 Total depth is 60 feet bgs.

### **BORING/WELL CONSTRUCTION LOG**

| GROUND ELEVATION 10.50 ft. MSL TOP OF CASING 13.15 ft. MSL LOGGED BY E. Schinsing REMARKS  (ii. BGL) COORDES  REMARKS  (ii. BGL) COORDES  COORDES |  |  |  |  |      |    |  |                                | SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  GRAVEL PACK TYPE #3 Lonestar Sand  GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  DEPTH TO WATER NM |   |      |  |  |  |
|--|--|--|--|--|------|----|--|--------------------------------|--|---|------|--|--|--|
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00   |  |  |  |  | - 10 | CL |  | CLAY, SOME SILT: organic odor. | very dark grayish brown, mo  | · | 35.0 |  | Cement with 5% Bentonite Grout (0-47 ft bgs) |  |

Continued Next Page



NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

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### **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

Fax: (949) 752-1307 10610-27775-NEWELLS PROJECT NUMBER BORING/WELL NUMBER Playa Vista 03/07/2000 **PROJECT NAME DATE DRILLED** Continued from Previous Page RECOVERY (inches) SAMPLE ID. GRAPHIC LOG CONTACT DEPTH BLOW PID (ppm) DEPTH (ft. BGL) U.S.C.S. EXTENT LITHOLOGIC DESCRIPTION WELL DIAGRAM SM Bentonite Pellets (47-57 ft bgs)
2" Diam. Sch
40, PVC Blank
(0-59 ft bgs) 45.0 WELL GRADED SAND WITH GRAVEL: dark gray and white, fine to coarse sand, rounded gravel, saturated. #3 Lonstar Sand (57-64 ft bgs) 2" Diam. Sch 40, PVC, 10-slot SW (59-64 ft bgs) Total depth is 60 feet bgs.

### **BORING/WELL CONSTRUCTION LOG**

| PROD<br>LOCA<br>DRILL<br>SAM<br>GRO<br>TOP<br>LOG | JECT NO<br>JECT NO<br>ATION<br>LING MI<br>PLING M<br>UND EL<br>OF CAS<br>GED BY<br>ARKS | Pia Pia ETHOD METHOD EVATION ING R | Pla Pla Iya Vis Pla D I I I I I I I I I I I I I I I I I I | tya Nollo<br>Cu<br>10 | 0-2777 Vista Area D W Sten ttings 0.40 ft. t. MSL | 5-NEV    | er .           |   | CASING TYPE/DIAMETER 2" Sch 40 SCREEN TYPE/SLOT 2" Sch 40 SCRAVEL PACK TYPE #3 Lonesta                                      | n 40 PV(<br>PVC/10 s<br>ir Sand<br>ind Cemi | siot<br>ent/5% Bentonite   |
|---|---|------------------------------------|---|-----------------------|---|----------|----------------|---|---|---|--|
| PID (ppm)   | BLOW  | RECOVERY (inches)                  | SAMPLE ID.  | EXTENT                | DEPTH<br>(ft. BGL)                                | U.S.C.S. | GRAPHIC<br>LOG | LITHO   | PLOGIC DESCRIPTION  | CONTACT                                     | WELL DIAGRAM   |
|   | B 000   | NEC (in                            | SAM   | X3                    | - 15  | SP SM CL | GR             | SAND: yellowish bro                             | gray.   | 5.0   | Cement with 5% Bentonite Grout (0-47 ft bgs)  2" Diam. Sch 40, PVC Blank (0-59 ft bgs) |
| NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00          |   |                                    |   |                       | -35<br><br><br>40                                 |          |                | the rough drilling con<br>loose to be collected | gy was determined by the driller by diltions. Samples were too fluid and/or by the split spoon sampler.  ontinued Next Page |   |  |

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### **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

Telephone: (949) 752-5452 Fax: (949) 752-1307 10610-27775-NEWELLS **BORING/WELL NUMBER** Playa Vista DATE DRILLED PROJECT NAME 03/07/2000 Continued from Previous Page RECOVERY (inches) SAMPLE ID. GRAPHIC LOG CONTACT DEPTH BLOW PID (ppm) EXTENT DEPTH (ft. BGL) U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM -Bentonite Pellets (47-57 ft bgs) 2" Diam. Sch 40, PVC Blank (0-59 ft bgs) GP #3 Lonstar Sand (57-64 ft bgs) 50 2" Diam. Sch 40, PVC, 10-slot (59-64 ft bgs) 55.0 Total depth is 55 feet bgs. VEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

| PROJ                                     | ECT NU  | ME                | Play       | 610-27 <u>77</u><br>a Vista   | 5-NEW    |                | BORING/W DATE DRII  |  |         |   |  |  |
|--|---------|-------------------|------------|---|----------|----------------|---|--|---------|---|--|--|
| 1  | TION    |                   |            | a Area D  |          |                |   |  |         |   |  |  |
| 1  | LING ME |                   |            |   |          |                |   |  |         | 101   |  |  |
| 1  | PLING M |                   | _          | Cuttings  |          |                |   |  |         | ent/5% Bentonite  |  |  |
| 1  |         |                   | _          |   |          |                | ······································  |  |         |   |  |  |
| 1  | OF CAS  |                   |            | oft. MSL  |          |                | DEPTH TO  |  |         |   |  |  |
| LOGG                                     | GED BY  | <u>R.</u>         | Lopez      | <del>-,</del>   |          |                | GROUND '  | WATER ELEVATION                          |         |   |  |  |
| REMA                                     | ARKS    |                   |            |   |          |                |   |  |         |   |  |  |
| PID (ppm)                                | BLOW    | RECOVERY (inches) | SAMPLE ID. | EXTENT<br>DEPTH<br>(ft. BGL)  | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DES  | SCRIPTION                                | CONTACT | WELL DIAGRAM  |  |  |
|  |         |                   |            | -5-   | CL       |                | (FILL) CLAY, SOME SILT, TRAC<br>reddish brown, slight plastic, firm<br>and coarse sand. | to soft, damp, fine gravel               | 7.0     | Portland Cement with 5% Bentonite Grout                 |  |  |
|  |         |                   |            | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | CL       |                | CLAY: dark brownish gray, soft,<br>moisture and softness with dept                      | n), damp to moist.                       | 15.0    | (0-51 ft bgs)  2" Diam. Sch 40, PVC Blank (0-60 ft bgs) |  |  |
|  |         |                   |            | -20-  | CL       |                | Color change to grayish brown, odor.  |  | 22.0    |   |  |  |
|  |         |                   |            | -   | SP       |                | SAND, SOME GRAVEL: dense, cuttings).  | saturated (very few                      | 25.0    |   |  |  |
|  |         |                   |            | -25·  | CL       |                | CLAY: dark brownish gray, very<br>materials present, organic odor.                      |  |         |   |  |  |
| 1/10/00                                  |         |                   |            | 30  |          |                | Color change to dark brownish p   | gray.                                    | 30.0    |   |  |  |
| NEWGINT PLAYAVIS,GPJ NEWGINT,GDT 4/10/00 |         |                   |            | 35  | CL       |                |   | en e |         |   |  |  |
| NEW                                      |         |                   |            | <u></u> -40   |          | (1111)         | Continued Ne  | ext Page                                 |         | PAGE 1 OF   |  |  |



# **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

Fax: (949) 752-1307 MMW-509 BORING/WELL NUMBER 10610-27775-NEWELLS PROJECT NUMBER DATE DRILLED 03/17/2000 Playa Vista PROJECT NAME Continued from Previous Page CONTACT DEPTH RECOVERY (inches) SAMPLE ID. GRAPHIC LOG BLOW COUNTS PID (ppm) DEPTH (ft. BGL) EXTENT U.S.C.S. WELL DIAGRAM LITHOLOGIC DESCRIPTION POORLY GRADED SAND: saturated. SP 51.0 ⊢Bentonite CLAY: dark brownish gray, very soft, saturated, shell Pellets material present, organic odor. (49-59 ft bgs) CL 55.0 GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler. #3 Lonestar GP Sand (59-65 ft bgs) 2" Diam. Sch 65.0 40, PVC, 10-slot (60-65 ft bgs) Total depth is 65 ft bgs. NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/10/00

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# BORING/WELL CONSTRUCTION LOG

| 1  |       |                      |            |        |                    | •        | ) 752-1        |   |   | .70     |  |  |  |  |
|--|-------|----------------------|------------|--------|--------------------|----------|----------------|---|---|---------|--|--|--|--|
|  | CT NU |                      |            |        |                    | 5-NEW    |                |   |   |         |  |  |  |  |
|  | CT NA |                      | Play       |        |                    |          |                |   |   | 40 BVC  |  |  |  |  |
| LOCA   |       | Play                 |            |        |                    |          |                |   |   | 40 PVC  |  |  |  |  |
|  |       |                      |            |        |                    |          |                | :   |   |         |  |  |  |  |
|  |       | ETHOD                |            |        |                    |          |                |   |   |         |  |  |  |  |
|  |       | VATIO                | _          |        |                    |          |                |   |   |         |  |  |  |  |
|  | FCASI |                      |            |        | . MSL              |          |                |   |   |         |  |  |  |  |
|  |       | R. I                 | Basilio    | (0     | aroup E            | elta)    |                |   | GROUND WATER ELEVATION  |         |  |  |  |  |
| REMA   | RKS   |                      |            |        |                    |          |                |   |   |         | T  |  |  |  |
| PID (ppm)  | BLOW  | RECOVERY<br>(inches) | SAMPLE ID. | EXTENT | DEPTH<br>(ft. BGL) | U.S.C.S. | GRAPHIC<br>LOG | LITHO   | OLOGIC DESCRIPTION  | CONTACT | WELL DIAGRAM   |  |  |  |
|  |       |                      |            |        | 5 -                | CL       |                | coarse sand, angula                           | AND GRAVEL: dark reddish brown,<br>r gravel, plastic, damp.<br>D AND GRAVEL: dark brown, plastic, | 5.0     | Portland Cement with 5% Bentonite                                      |  |  |  |
|  |       |                      |            |        | <br><br>-10        | CL       |                |   |   | 13.0    | Grout<br>(0-62 ft bgs)  2" Diam. Sch<br>40, PVC Blank<br>(0-74 ft bgs) |  |  |  |
|  |       |                      |            |        | -15-               | CL       |                | cohesive, damp, sof                           |   | 15.0    |  |  |  |  |
|  |       |                      |            |        | -                  | SP       |                | POORLY GRADED sand.                           | SAND: light yellow brown, mostly fine   |         |  |  |  |  |
|  |       |                      |            |        |                    | sc       |                | CLAYEY SAND: bro<br>poorly graded, fine s     | own, slightly cohesive, very moist;<br>sand.  | 20.0    |  |  |  |  |
|  |       |                      |            |        | 25-                | SP       | <i>V//</i>     | POORLY GRADED<br>brown, fine sand, sa         | SAND WITH CLAY: light yellow turated.   | 23.0    |  |  |  |  |
|  |       |                      |            |        |                    | CL       |                | CLAY; very dark bro                           | own, soft, plastic, slight organic odor.  | 27.0    |  |  |  |  |
|  |       |                      |            |        | -30-               | CL       |                | Color change to ver<br>plastic, slight organi | y dark grayish brown to black, soft ic odor.  | 29.0    |  |  |  |  |
| The state of the s |       | -                    |            |        | - 35-              |          |                | Color changes to da<br>saturated.             | ark grey, very soft, very sticky,   | 32.0    |  |  |  |  |
| WGW I WGW  |       |                      |            |        | - 40               | - CL     |                |   |   | 40.0    |  |  |  |  |

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### **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

PROJECT NUMBER

BORING/WELL NUMBER

10610-27775-NEWELLS MMW-676 DATE DRILLED 3/9/2000 **PROJECT NAME** Playa Vista Continued from Previous Page RECOVERY (inches) CONTACT DEPTH SAMPLE ID. GRAPHIC LOG BLOW PID (ppm) EXTENT DEPTH (ft. BGL) U.S.C.S. WELL DIAGRAM LITHOLOGIC DESCRIPTION Color changes to gray, soft, wet. Portland Cement with 5% Bentonite Grout (0-62 ft bgs) 2" Diam. Sch 40, PVC Blank (0-74 ft bgs) Bentonite Pellets 68.0 (62-72 ft bgs) POORLY GRADED GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were to fluid and/or loose to be collected by the split spoon sampler. #3 Lonestar Sand (72-79 ft bgs) GP 2" Diam. Sch 40, PVC, NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00 10-slot (74-79 ft bgs) Sluff (79-80 80.0 ft bgs) Total depth is 80 feet bgs.

NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

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| PROJ<br>LOCA<br>DRILI<br>SAMF<br>GROU<br>TOP ( | OF CAS<br>SED BY | ME Play ETHOD IETHOD EVATIO | Play ya Vist Ho N | ra V<br>a A<br>ollov<br>Cut<br>21 | O-2777<br>lista<br>rea D<br>w Stem<br>tings<br>.26 ft. I | 5-NEW          | r |   | DATE DRILLED 3/1/2000  CASING TYPE/DIAMETER 2" Sch 40 PVC  SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  GRAVEL PACK TYPE #3 Lonestar Sand  GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  DEPTH TO WATER NM |                                     |  |  |   |  |
|--|------------------|-----------------------------|-------------------|-----------------------------------|--|----------------|---|---|---|-------------------------------------|--|--|---|--|
| •  | 0                | RE (                        | SA                |                                   | - 5  | CL SP SC CL CL |   | CLAYEY SAND: dark poorly graded; non-cc CLAY: brown; plastic POORLY GRADED S  CLAYEY SAND: dark CLAY: dark grayish be soft; no odor.  Color change to black increasing moisture w | reddish brown, medium to fine sand, phesive. to slightly plastic; dry to damp  AND: brown; trace silt; dry.  brown rown to dark brown; plastic; firm to   | 9.0<br>10.0<br>15.0<br>20.0<br>22.0 |  |  | Portland Cement with 5% Bentonite Grout (0-54 ft bgs)  2" Diam. Sch 40, PVC Blank (0-65 ft bgs) |  |

NEWGINT PLAYAVIS GPJ NEWGINT GDT 4/11/00

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### **BORING/WELL CONSTRUCTION LOG**

PAGE 2 OF 2

10610-27775-NEWELLS BORING/WELL NUMBER MMW-735 Playa Vista **PROJECT NAME** DATE DRILLED 3/1/2000 Continued from Previous Page SAMPLE ID. RECOVERY (inches) GRAPHIC LOG BLOW COUNTS PID (ppm) DEPTH (ft. BGL) U.S.C.S. EXTENT LITHOLOGIC DESCRIPTION WELL DIAGRAM 2" Diam. Sch 40, PVC Blank (0-65 ft bgs) Bentonite Grout (51-61 ft bgs) GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler. Bentonite Pellets (54-64 ft bgs) GP #3 Lonestar Sand (64-70 ft bgs) 2" Diam. Sch 40, PVC, 10-slot 70.0 (65-70 ft bgs) Total depth is 70 feet bgs.

NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

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# **BORING/WELL CONSTRUCTION LOG**

| PROJ<br>LOCA | ECT NA | AME                  | <u>Pla</u><br>aya Vis | ya V<br>sta A | Vista<br>Area D    |          |                |                                      |                               | 2000<br>3 2" Sch | 2" Sch 40 PVC |   |  |  |  |
|--------------|--------|----------------------|-----------------------|---------------|--------------------|----------|----------------|--------------------------------------|-------------------------------|------------------|---------------|---|--|--|--|
| -            |        | METHO                | D _                   | Cu            | ttings             | 11:55    |                |                                      |                               |                  |               |   |  |  |  |
| GROU         | IND EL | EVATIC               |                       |               |                    | MSL      |                |                                      |                               |                  |               | ment/5% Bentonite                                     |  |  |  |
|              | OF CAS |                      | 20.3                  | 33 ft         | t. MSL             |          |                |                                      | DEPTH TO WATERN               | NM_              |               |   |  |  |  |
| LOGG<br>REMA |        | <u>R</u> ,           | . Basili              | <u>o (G</u>   | iroup D            | )elta)   |                |                                      | GROUND WATER ELEVA            | TION             |               |   |  |  |  |
| NEWA         | 1      |                      |                       | <del></del>   |                    |          | <del></del>    |                                      |                               |                  |               |   |  |  |  |
| PID (ppm)    | BLOW   | RECOVERY<br>(inches) | SAMPLE ID.            | EXTENT        | DEPTH<br>(ft. BGL) | U.S.C.S. | GRAPHIC<br>LOG | LITHC                                | DLOGIC DESCRIPTION            |                  | CONTACT       | WELL DIAGRAM  |  |  |  |
| 20           |        |                      |                       |               | - 5                | sc       |                | CLAYEY SAND: brow                    | wn, moist.                    |                  |               | Portland Cement with 5% Bentonite Grout (0-47 ft bgs) |  |  |  |
| 40           |        |                      |                       | -             | 10                 | CL       |                | CLAY: grayish brown                  | ı. moist, firm.               |                  | 9.0           | 2" Diam. Sch<br>40, PVC Blank<br>(0-64 ft bgs)        |  |  |  |
| 40           |        |                      | :                     |               | 15<br>             | SM       |                | SILTY SAND: yellowi<br>grained sand. | ish brown, moist, fine to med | dium             | 19.0          |   |  |  |  |
| 20           |        |                      |                       |               | -20-               | !        |                | SANDY CLAY: brown                    | 1.                            |                  | 18.0          |   |  |  |  |
| 0            |        |                      |                       |               |                    | CL       |                |                                      |                               |                  |               |   |  |  |  |
| 0            |        |                      |                       |               | -30                |          |                | CLAY, SOME SILT: g                   | gray, wet, soft, medium plast | icity.           | 30.0          |   |  |  |  |
|              |        |                      |                       |               | -40-               |          |                | Co                                   | ntinued Next Page             |                  |               |   |  |  |  |

NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

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## **BORING/WELL CONSTRUCTION LOG**

Fax: (949) 752-1307 PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-738 PROJECT NAME Playa Vista DATE DRILLED 3/9/2000 Continued from Previous Page RECOVERY (inches) PID (ppm) SAMPLE ID. GRAPHIC LOG BLOW COUNTS CONTACT DEPTH DEPTH (ft. BGL) EXTENT U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM 0 CL Portland Cement with 5% Bentonite 0 Grout (0-47 ft bgs) -Bentonite Pellets 0 (47-57 ft bgs) 2" Diam. Sch 40, PVC Blank (0-64 ft bgs) 55.0 20 GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler. #3 Lonestar Sand (57-64 ft bgs) GP 40 -2" Diam. Sch 40, PVC, 10-slot 65.0 (59-64 ft bgs) Total depth is 65 feet bgs.

| 1         |                  | UMBER             | <u> 1</u>                                | 061      | 0-277 <u>7</u>     | 75-NEV   | NELLS          |  | BORING/WELL NUMBER   | _MMW-                                   | 921     |                                       |   |  |
|-----------|------------------|-------------------|--|----------|--------------------|----------|----------------|--|--|---|---------|---------------------------------------|---|--|
| 1         | JECT N           |                   |  |          | ista_              |          |                |  |  |   |         |                                       |   |  |
|           | ATION            |                   | iya Vis                                  |          |                    |          |                |  | CASING TYPE/DIAMETER   |   |         |                                       |   |  |
| 1         |                  | ETHOD             |  |          |                    |          |                |  |  | 2" Sch 40 f                             | PVC/10  | slot                                  |   |  |
| 1         |                  | METHO             |  |          | tings              |          |                |  |  | r Sand                                  |         |                                       |   |  |
| 1         |                  | EVATIO            | •  |          |                    |          |                |  | GROUT TYPE/QUANTITY  | Bentonite                               |         |                                       |   |  |
| Į.        | OF CAS<br>SED BY |                   |  |          | . MSL              |          |                |  |  |   |         |                                       |   |  |
| 1         | ARKS             | <u> </u>          | Lopez                                    | <u> </u> |                    |          |                |  | GROUND WATER ELEVAT  | ION                                     |         |                                       |   |  |
| I LEWIS   | 100              |                   | -  |          | -                  |          |                |  |  |   |         | · · · · · · · · · · · · · · · · · · · |   |  |
| PID (ppm) | BLOW             | RECOVERY (inches) | SAMPLE ID.                               | EXTENT   | DEPTH<br>(ft. BGL) | U.S.C.S. | GRAPHIC<br>LOG | LITHOI                                       | LOGIC DESCRIPTION  | · <u>-</u>                              | CONTACT | v                                     | VELL DIAGRAM  |  |
|           |                  |                   |  |          | -                  | CL       |                | (FILL) CLAY, TRACE nonplastic.               | SAND: dark reddish brown;  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 4.0     |                                       |   |  |
|           |                  |                   |  |          | - 5 -<br>-         | CL       |                | SANDY CLAY: dark b<br>odor; construction det | rownish gray; very strong or<br>oris (e.g. broken up asphalt).                     | ganic                                   | 9.0     |                                       | Portland Cement with 5% Bentonite Grout (0-48 ft bgs) |  |
|           |                  |                   |  |          | -10                | SP       |                | brown becoming darke                         | AND, TRACE SILT: dark yel er with depth to a dark brown and; dry to slightly damp. | llowish<br>nish                         |         |                                       | 2" Diam. Sch<br>40, PVC Blank<br>(0-60 ft bgs)        |  |
|           |                  |                   | , 100 100 100 100 100 100 100 100 100 10 |          | -20                | CL       |                |  | damp; strong organic odor.   |   | 23.0    |                                       |   |  |
|           |                  | 4                 |  |          | 25                 | CL       |                | Color change to dark g                       | ray; slightly organic; very m  | oist.                                   | 30.0    |                                       |   |  |
|           |                  |                   |  |          | 35                 | CL       |                | Increase in water conte                      |  | ·                                       | 35.0    |                                       |   |  |
|           |                  |                   |  |          | 40-                |          |                | Cont   | inued Next Page  |   |         |                                       | PAGE 1 OF 2   |  |

NEWGINT PLAYAVIS.GPJ NEWGINT.GDT 4/11/00

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### BORING/WELL CONSTRUCTION LOG

Fax: (949) 752-1307 PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER PROJECT NAME Playa Vista **DATE DRILLED** 3/2/2000 Continued from Previous Page RECOVERY (inches) SAMPLE ID. GRAPHIC LOG BLOW COUNTS PID (ppm) U.S.C.S. CONTACT DEPTH EXTENT DEPTH (ft. BGL) LITHOLOGIC DESCRIPTION **WELL DIAGRAM** CL Portland Cement with 5% Bentonite Grout (0-48 ft bgs) 50.0 POORLY GRADED GRAVEL: The lithology was Bentonite Pellets determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sample. (48-59 ft bgs) 2" Diam. Sch 40, PVC Blank (0-60 ft bgs) GP #3 Lonestar Sand (59-65 ft bgs) -2" Diam. Sch 40, PVC, 10-slot (60-65 ft bgs) 65.0 65 Total depth is 65 feet bgs.