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WHITE—DIVISION OF WATER RESOURCES
CANARY—CLIENT'S COPY
PINK—WELL DRILLER'S COPY

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DO NOT WRITE ON BACK

STATE OF NEVADA
DIVISION OF WATER RESOURCES

# WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

OFFICE USE ONLY
Log No. 88550
Permit No.
Basin 110C

NOTICE OF INTENT NO. 51050

1. OWNER Hawthrone Army Depot
MAILING ADDRESS
ADDRESS AT WELL LOCATION Hawthrone Army Depot Highway 95 Hawthrone - Nev 89415

2. LOCATION NE¼ x NW ¼ Sec. 11 T. 8 N/S R. 30 E. Mineral County
PERMIT NO. MO 11252 (Issued by Water Resources) | Parcel No. | Subdivision Name

3. WORK PERFORMED
☒ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Abandon ☐ Other

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal/Industrial ☒ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☒ Rotary ☐ RVC
☐ Air ☐ Other

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|---|---|---|---|---|
| See Attached | | | | |
| Pages | | | | |
| 0201 well | | | | |

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Date started 6-22, 2002
Date completed 6-24, 2002

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

| G.P.M. | Draw Down (Feet Below Static) | Time (Hours) |
|---|---|---|
| NA | | |

8. WELL CONSTRUCTION
Depth Drilled 100 Feet Depth Cased 100 Feet

HOLE DIAMETER (BIT SIZE)

| | From | To |
|---|---|---|
| 8½ Inches | 0 Feet | 100 Feet |
| Inches | Feet | Feet |
| Inches | Feet | Feet |

CASING SCHEDULE

| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) |
|---|---|---|---|---|
| 3/4" | PVC | sch. 40 | 97'6" | 0 |

Perforations:
Type perforation Screen
Size perforation micro - screen
From 97'6" feet to 100' feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal 86
Placement Method: ☒ Pumped ☐ Poured
Seal Type: ☒ Neat Cement ☐ Cement Grout ☐ Concrete Grout

Gravel Packed: ☒ Yes ☐ No
From 100 feet to 91 feet

9. WATER LEVEL
Static water level 82' feet below land surface
Artesian flow NA G.P.M. NA P.S.I.
Water temperature NA °F Quality NA

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Layne Christensen (Contractor)
Address 11001 Etiwanda Ave (Contractor)
Fontana - CA 92337
Nevada contractor's license number issued by the State Contractor's Board ~~[illegible]~~ 0019101
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 1468
Signed Stephen Johnson (By driller performing actual drilling on site or contractor)
Date 6-29-02

(Rev. 12-01) USE ADDITIONAL SHEETS IF NECESSARY (O)-627

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| | | | | | |
|---|---|---|---|---|---|
| Project Name and Location: Bldg 336 | | | | | TC Number: |
| Elevation: | Date and Time Started: 6-12-02 12:20 | | | | Date and Time Completed: |
| Completion Depth: | Number of Samples: | Drive: — | 1-liter: — | VOA: — | Other: no samples |
| Boring Diameter & Drilling Method: 8 1/2" Hollowstem Auger | | | Water Level: | First (date/time): | Second (date/time): |
| Sampler: No Samples | Hammer Wt.: | Drop: | Boring Location: 20' NE of SB01 | | |
| Drilling Co: LAYNE | Driller: LAYNE - JIM | | | Geologist: R. MARVIN | |

| Depth (ft.) | Sample No. | Sample Interval | Recovery | Blow Count | Description | Graphic Symbol | USCS Symbol | Estimated % of Gr | Sa | Si | Cl | P.I.D. Reading | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0-5 | | | | Dirty construction waste fill 0' bgs to 4' bgs. Fill contains wire segments, candy wrappers, concrete chunks, ect. well graded coarse sand intersected @ 4' bgs. | | | | | | | | |
| | 5-10 | | | | Well graded, silty medium sand with sparse gravel clasts. All clasts angular. Damp | | | 10 | 60 | 30 | | | 0.0 PID |
| | 10-15 | | | | Well graded silty medium sand with 10% rounded gravel clasts damp | | | 10 | 60 | 30 | | | 0.0 PID |
| | 15-20 | | | | A/p with sharp contact @ ~ 18' bgs into poorly graded fine sand damp | | | | | | | | 4/3 PID in hopper |
| | 20-25 | | | | Poorly graded fine sand Tan to orange color. | | | | 90 | 10 | | | 690 PID in hopper |
| | 25-30 | | | | Poorly graded medium to fine sand. Tan to brown color. | | | | 80 | 20 | | | 123 PID in hopper |
| | 30-35 | | | | ~~Poorly~~ well graded sand, very coarse to fine, rounded | | | | | | | | |

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Sheet 2 of 3

Project Name and Location:

TC Number:

| Depth (ft.) | Sample No. | Sample Interval | Recovery | Blow Count | Description | Graphic Symbol | USCS Symbol | Estimated % of Gr | Sa | Si | Cl | P.I.D. Reading | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30-35 cont. | | | | clasts. High silt content. | | | 15 | 70 | 15 | | | 122 PID in hopper |
| | 35-40 | | | | Well graded, rounded gravel with silty, sandy matrix. | | | 50 | 25 | 25 | | | 207 PID in hopper |
| | 40-45 | | | | A/P - damp with VOC's | | | 60 | 20 | 20 | | | 3360 PID in hopper |
| | 45-50 | | | | A/P increasing silt content. | | | 50 | 20 | 30 | | | 1440 PID in hopper |
| | 50-55 | | | | A/P with sharp transition to | | | | | | | | |
| | 55-60 | | | | | | | | | | | | |
| | 60-65 | | | | | | | | | | | | |
| | 65-70 | | | | | | | | | | | | |
| | 70-75 | 74- | | | Silty-sandy brown clay for upper part of interval. See spoon lithology below: | | | | 30 | 30 | 40 | | 87 PID from hopper. |
| | Split spoon | 75.6 | | | | | | | | | | | |
| | Blow count: 21, 29, 31 | | | | | | | | | | | | |
| | | | | | Split spoon sample: 74 to 75'.6". Poorly graded fine sand - dry. | | | | | | | | 191 PID from sleeve |
| | 75-80 | | | | silty, sandy brown clay, very damp to $H_2O$ saturated. | | | | 20 | 20 | 60 | | |
| | 80-85 | | | | Silty-sandy brown clay. Very damp to saturated. | | | | 20 | 20 | 60 | | 543 PID from hopper. |

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Sheet 3 of 3

Project Name and Location: Bldg 336

TC Number: 12308-01

| Depth (ft.) | Sample No. | Sample Interval | Recovery | Blow Count | Description | Graphic Symbol | USCS Symbol | Estimated % of Gr | Sa | Si | Cl | P.I.D. Reading | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 85-90 | | | | Silty-sandy brown clay, very damp. | | | | 10 | 20 | 70 | | |
| | 90-95 | | | | Silty-sandy brown clay, very damp | | | | 10 | 20 | 70 | | |
| | 95-100 | | | | Silty-sandy brown Clay. T.D @ 100' bgs - to auger open and clean to T.D. | | | | 10 | 20 | 70 | | 22 PID in hopper |