

STATE OF NEVADA
 DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY
 Log No. **75939**
 Permit No. _____
 Basin. **227B**

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

NOTICE OF INTENT NO. **19124**

1. OWNER **U.S. Department of Energy** ADDRESS AT WELL LOCATION **Nevada Test Site, Area 18**
 MAILING ADDRESS **P.O. Box 98518** **Well ER-18-2**
Las Vegas, NV 89193-8518

2. LOCATION **SE 1/4 NE 1/4 Sec. 3 T. 10 N/S R. 50 E Nye** County
 XXXXX NO. **R-1024** Parcel No. **N/A** Subdivision Name **N/A**
 WAIVER Issued by Water Resources

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... **Foam**

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|--|--------------|------|------|-----------|
| Basalt: gray-black, vesicular | N | 0 | 118 | 118 |
| Gravelly sand: Tuffaceous mod. indurated; calcareous | N | 118 | 268 | 150 |
| Partially welded ash-flow tuff mostly devitrified, some VP | N | 268 | 345 | 77 |
| Moderately welded ash-flow tuff: devitrified | N | 345 | 351 | 6 |
| Gravelly sand: tuffaceous; mod. consolidation; calcareous | N | 351 | 587 | 36 |
| Nonwelded ash-flow tuff: vitric to devitrified | N | 587 | 722 | 135 |
| Nonwelded ash-flow tuff: mostly zeolitic, partly silicic | N | 722 | 802 | 80 |
| Gravelly sand: tuffaceous; well consolidated; not calc. | N | 802 | 841 | 39 |
| Non-to-partially welded ash-flow tuff: zeolitic | N | 841 | 860 | 19 |
| Moderately welded ash-flow tuff: devitrified & silicic | N | 860 | 1062 | 202 |
| Debris flow: DW fragments | N | 1062 | 1098 | 36 |
| Bedded tuff: zeolitic | N | 1098 | 1170 | 72 |
| Debris flow: DW fragments | N | 1170 | 1195 | 25 |
| Nonwelded ash-flow tuff: mostly zeolitic, part devit. | N | 1195 | 1220 | 25 |
| Partly welded ash-flow tuff: partly devitrified, part zeol. | Y | 1220 | 1278 | 58 |
| Moderately to densely welded ash-flow tuff: devitrified silicic in parts | Y | 1278 | 2500 | 1222 |

8. WELL CONSTRUCTION
 Depth Drilled **2,500** Feet Depth Cased **2,143** Feet
 HOLE DIAMETER (BIT SIZE)
 From To
30 Inches **0** Feet **35** Feet
17 1/2 Inches **35** Feet **1,351** Feet
12 1/2 Inches **1,351** Feet **2,500** Feet

CASING SCHEDULE

| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) |
|--------------------|---------------------|-------------------------|-------------|-----------|
| 20 | 94 | 0.438 | 0 | 35 |
| 7-5/8 | 26.40 | 0.328 | 0 | 1,476 |
| 5-1/2 (FG) | 5.85 | 0.400 | 1,476 | 1,889 |
| 5-1/2 (SS) | 14.7 | 0.250 | 1,889 | 2,143 |

Perforations:
 Type perforation **slotted 5 1/2" stainless steel casing**
 Size perforation **0.078" wide x 2" long**
 From **2101** feet to **1930** feet
 From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
 Neat Cement
 Cement Grout
 Concrete Grout
 Depth of Seal **52'**
 Placement Method: Pumped Poured
 Gravel Packed: Yes No
 From **2500** feet to **2245** feet

9. WATER LEVEL
 Static water level **1299'** feet below land surface
 Artesian flow **None** G.P.M. **N/A** P.S.I.
 Water temperature **14.1** at **2478'** Quality **N/A**

10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.

Date started **May 3**, 19**99**
 Date completed **May 18**, 19**99**

7. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

| G.P.M. | Draw Down (Feet Below Static) | Time (Hours) |
|--------|-------------------------------|--------------|
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Name _____ Contractor
 Address _____ Contractor
 Nevada contractor's license number issued by the State Contractor's Board _____
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller **#2125**
 Signed **James W. Shelton**
 By driller performing actual drilling on site or contractor
 Date **6/17/99**

Log 75939

Bechtel Nevada

Mailing address: P.O. Box 98521
Las Vegas, NV 89193-8521

Express mail only: 2621 Losee Road
North Las Vegas, NV 89030-4129

1300-KO-99-0012

June 17, 1999

Robert Coache, Chief Engineer
Southern Nevada Branch Office
State of Nevada
Division of Water Resources
555 East Washington Avenue
Las Vegas, NV 89101

Subject: Contract No. DE-AC08-96NV11718
WELL DRILLER'S REPORT FOR ER-18-2,
NOTICE OF INTENT NO. 19124
Project No. 04024

Reference letter from G. W. Johnson to R. Coache, dated March 5, 1999, regarding licensing of U.S. Department of Energy, Nevada Operations Office drilling services.

In accordance with the intent of the referenced letter, Bechtel Nevada, as a matter of comity, is submitting the attached Well Driller's Report for the subject well.

If you have any questions, please contact me at 295-0634.



P. K. Ortego, Program Manager
Site Investigations

PKO:mo
Subject Code: ENV 35-2

Enclosure: as stated

cc w/enc.
R. M. Bangerter, DOE/NV, 505

cc w/o enc.
Correspondence Control, NLV008
R. A. Hughes, BN, NLV102