ER-5-3

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

PRINT OR TYPE ONLY
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. 79419
Permit No.
Basin 160

NOTICE OF INTENT NO. 20371

1. OWNER U.S. Department of Energy
MAILING ADDRESS P.O. Box 98518
Las Vegas, NV 89193-8518

ADDRESS AT WELL LOCATION ER-5-3
Area 5 of the Nevada Test Site

2. LOCATION SE ¼ SE ¼ Sec. 22 T 12 N/S R 54 E Nye County

~~XXXXXXX~~ WATER NO. R-1024 A (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 Air-Foam

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Tuffaceous Alluvium:	N	0	903	903
gravelly sand				
Basalt Lava Flow	Y	903	933	30
Older Alluvium:	Y	933	2050	1117
tuffaceous, gravelly				
sandy; moderate				
induration				
Ash-Flow Tuff: Nonwelded	Y	2050	2305	255
to densely welded				
Bedded Tuff: Air-fall	Y	2305	2335	30
and reworked tuffs				
Ash-Flow Tuff:	Y	2335	2606	271
partially welded to			TD	
densely welded.				
Highly fractured,				
densely welded, slough-				
ing interval below				
2480 ft depth				

Date started February 21, 2000, 19
Date completed March 16, 2000, 19

7. WELL TEST DATA

TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

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

8. WELL CONSTRUCTION
Depth Drilled 2606 Feet Depth Cased 2551 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
48	Inches	0	Feet	102	Feet
18½	Inches	102	Feet	1250	Feet
12¼	Inches	1250	Feet	2606	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
30		0.375	0	102
13-3/8	54.5	0.380	0	1229
5½ / 7-5/8	14.60/26.4	0.250/0.328	1437/0	2551/1437

Perforations:
Type perforation Slotted 5½" stainless steel casing
Size perforation 0.078" wide x 2" long
From 2549 feet to 2421 feet
From 1737 feet to 1480 feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal 61 feet
Placement Method: ☐ Pumped ☒ Poured
Seal Type: ☒ Neat Cement ☐ Cement Grout ☐ Concrete Grout

Gravel Packed:* ☒ Yes ☐ No *see attached
From 2559 feet to 2372 feet

9. WATER LEVEL
Static water level 927 feet below land surface
Artesian flow No G.P.M. P.S.I.
Water temperature 84 °F @ 2562 ft. Quality

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

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 Russell Shelton
By driller performing actual drilling on site or contractor
Date 4/12/00

(Rev. 3-91) USE ADDITIONAL SHEETS IF NECESSARY (O)-627

79419

STATE OF NEVADA

DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

NOTICE OF INTENT NO. 20371

ADDRESS AT WELL LOCATION: Nevada Test Site, Area 5, Well ER-5-3

Continued from Page 1, "Gravel Packed:"

From	2235 feet	to	1995 feet
From	1782 feet	to	1446 feet

79419

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

2150-KO-00-0006

April 13, 2000

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-5-3, NOTICE OF INTENT NO. 20371
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, Project Manager
Underground Test Area

PKO:mo
Subject Code: ENV 35

Enclosure: as stated

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

cc w/o enc.
Correspondence Control, NLV008
P. W. Tomiczek, Jr., BN, NLV102