

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

OFFICE USE ONLY
Log No. 87286
Permit No. _____
Basin 158A

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

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

NOTICE OF INTENT NO. 20380

1. OWNER Nat'l Nuclear Security Administration ADDRESS AT WELL LOCATION Area 8, Nevada Test Site
MAILING ADDRESS PO Box 98518 ER-8-1
Las Vegas, NV 89193-8518 Subdivision Name: N/A County: Nye

2. LOCATION NW 1/4 SW 1/4 Sec 27 T 08S N/S R 53 E Latitude N 37 deg, 12', 47.37" UTM E 677,919 NAD 27
PERMIT/WAIVER No. R-1024C N/A Longitude W 116 deg, 03', 23.55" N 897,160 NAD 83/WGS 84

Issued by Water Resources Parcel No. _____

3. WORKED PERFORMED
 New Well Replace Recondition
 Deepen Other Completion

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

5. WELL TYPE
 Cable Rotary RVC
 Air Other Mud & Foam

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
Note: This well report is an addendum to well log 87286. On 8/20/07 began clean out of fill at Well ER-8-1.				
Cemented below 10-3/4" casing to stabilize hole above static WL; used 1216 cu.ft. of Portland Type II cement with 4% bentonite; drilled out cement from existing hole to 2055 ft.				
Set 4-1/2" FH drill pipe at a depth of 2570.78' below ground level; perforated with Halliburton Services on 09/13/07				
The 4-1/2" drill pipe was set and perforated for the purpose of future monitoring and sampling of ground water.				
Demobe of rig and facilities completed on 9/18/07				

9. WELL CONSTRUCTION

Depth Drilled 2863 Feet Depth Cased 2,571 Feet

HOLE DIAMETER (BIT SIZE)

	From	To		
<u>48</u>	Inches	<u>0</u>	Feet	<u>120</u> Feet
<u>18-1/2</u>	Inches	<u>120</u>	Feet	<u>1601</u> Feet
<u>12-1/4 & 9-7/8</u>	Inches	<u>1601/2141</u>	Feet	<u>2141/2863</u> Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
<u>30</u>		<u>0.500</u>	<u>0</u>	<u>117</u>
<u>13-3/8</u>	<u>54.50</u>	<u>0.380</u>	<u>0</u>	<u>1093.3</u>
<u>10-3/4</u>	<u>40.50</u>	<u>0.350</u>	<u>0</u>	<u>1895.8</u>

Perforations:

Type of perforation (4) 10' sections - 40 perfs/section
Size of perforation 26" 30 degree phase

From <u>Runs 1&2</u> <u>2566</u>	feet to	<u>2546</u>	feet
From <u>Runs 3&4</u> <u>2535</u>	feet to	<u>2515</u>	feet
From _____	feet to	_____	feet
From _____	feet to	_____	feet
From _____	feet to	_____	feet

Annular Seal: Yes No

<input checked="" type="checkbox"/> Neat Cement <u>117</u> to <u>0</u>	<input type="checkbox"/> Pumped	<input checked="" type="checkbox"/> Poured
<input type="checkbox"/> Cement Grout _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> Concrete Grout _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> ≥30% Bentonite Grout _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured

Gravel Pack: Yes No _____ to _____ Pumped Poured

Type: _____

Bentonite Chips: Yes No _____ to _____ Pumped Poured

Type: _____

Date started: 8-Aug, 20 07
Date completed: 18-Sep, 20 07

7. Water Level
Static water level: approx. 2251' feet below land surface
Artesian Flow: _____ G.P.M. _____ P.S.I.
Water Temperature: _____ °F
Quality: _____

8. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
<u>100</u>	<u>10'</u>	<u>10</u>

10. DRILLER'S CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name National Security Technologies LLC.
Contractor

Address PO Box 98521
Contractor

Las Vegas NV, 89193-8521

Nevada contractor's license number _____
issued by the State Contractor's Board N/A

Nevada driller's license number issued by the Division of Water Resources, the on-site driller 2125

Signed [Signature]
By driller performing actual drilling on site or contractor

Date 10/16/07

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT (cont.)

<i>CASING SCHEDULE (cont.)</i>				
Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
4.500	16.60	0.337	0	2,571