

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

OFFICE USE ONLY
Log No. 115603
Permit No. _____
Basin No. _____

PRINT OR TYPE IN BLACK INK 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. 32290
WELL NAME (If applicable): ER-11-2

1. OWNER/CLIENT NAME National Nuclear Security
MAILING ADDRESS Administration, P.O. Box 98518
Las Vegas, NV 89193-8518

DETAILED ADDRESS AT WELL LOCATION _____
Nevada National Security Site, Area 11
Subdivision Name: _____ County: Nye

2. PLS LOCATION SE ¼ SE ¼ 15 Sec T12 N5 R54 E
PERMIT/WAIVER NO. R-1024H N/A
Issued by Water Resources Current Parcel No.

Latitude 36° 53' 14" UTM E 594,497.10 NAD 27
Longitude 115° 56' 22" UTM N 4,082,892.00 NAD 83/WGS 84

3. WORKED PERFORMED
 New Well Deepen: Orig WL# _____
 Replacement: Original well log # _____
 Recondition: Original well log # _____

4. PROPOSED USE
 Domestic Irrigation Monitor
 Mining / Dewater Com / Ind Stock
 Test / Other Mun / QM Rec

5. WELL TYPE
 Auger Rotary RVC
 Air Mud Sonic
 Other Air-foam

LITHOLOGIC LOG					
Material Encountered	Lost Circ.	Water Strata	From	To	Thick-ness
Alluvium: tuffaceous		N	0	140	140
Ash-flow tuff: moderately to densely welded, devitrified (Tmr)			140	305	165
Ash-flow tuff: non-welded, vitric (Tmr)		N	305	380	75
Bedded and reworked tuff: vitric (Tmrh)		N	380	700	320
Ash-flow tuff: densely welded, vitrophyre (Tpt)			700	745	45
Ash-flow tuff: moderately to densely welded, devitrified (Tpt)		N	745	945	200
Bedded ash-fall tuff: vitric to devitrified (Th)		N	945	1020	75
Bedded tuff: zeolitic, mafic rich (Tw)		N	1020	1200	180
Ash-flow tuff: nonwelded, devitrified (Tw)		Y	1200	1311	111 (TD)

WELL CONSTRUCTION					
Depth Drilled:	Feet	Depth Cased:	Feet	HOLE DIAMETER (BIT SIZE)	
				From	To
	42			0	110
	17.5			110	171
	12.25			171	1,311

CASING SCHEDULE				
Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
20	94	0.438	surface	108.3
2.875	7.66	0.276	1,125.9	1,294.2
2.375	4.7	0.190	surface	1,125.9

PERFORATIONS:
Type of perforation: Slotted, 0.076 to 0.080 inches wide
Size of perforation: 2 inches long, spaced on 6 inch centers
From 1167.6 Feet To 1294.2 Feet
From _____ Feet To _____ Feet
From _____ Feet To _____ Feet

ANNULAR MATERIALS

<input type="checkbox"/> Sanitary Seal _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> Neat Cement _____ to _____	<input type="checkbox"/> Pumped	<input checked="" type="checkbox"/> Poured
<input checked="" type="checkbox"/> Cement Grout <u>108.3</u> to <u>surface</u>	<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"/> Bentonite Chips _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> Bentonite Grout _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> 15 % <input type="checkbox"/> 20 % <input type="checkbox"/> Other, explain: _____		
<input checked="" type="checkbox"/> Gravel Pack [<u>> 0.2 in.</u>] <u>1132</u> to <u>1304</u>	<input type="checkbox"/> Pumped	<input checked="" type="checkbox"/> Poured
<input type="checkbox"/> Sand Pack [<u>< 0.2 in.</u>] _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> Other, explain: _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured

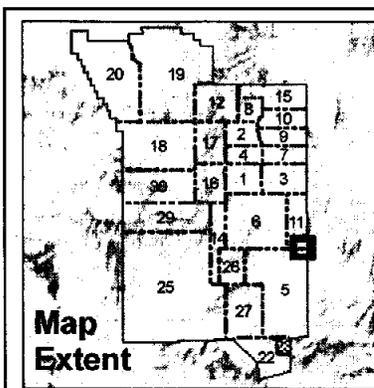
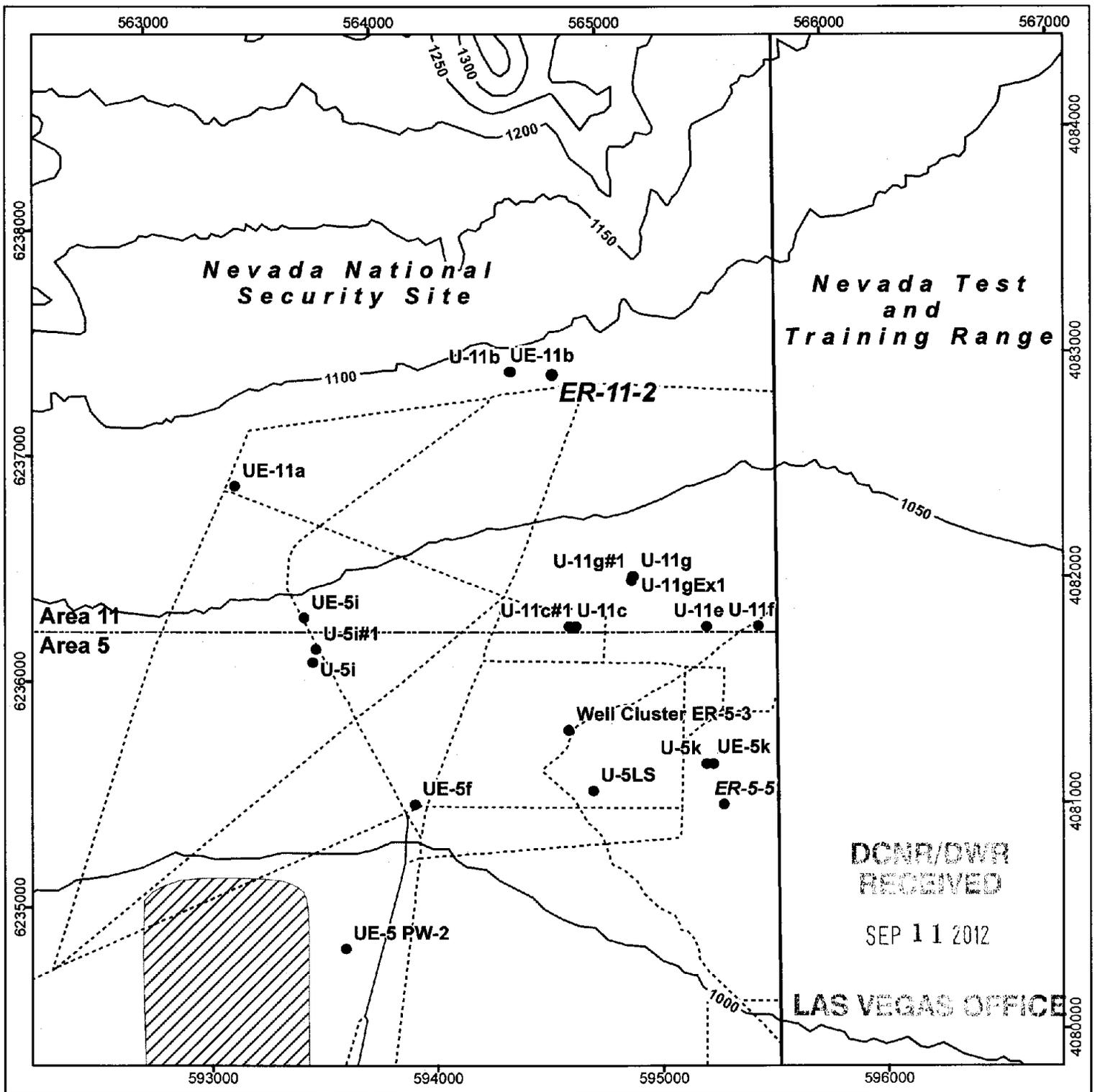
Date started: 18-Aug, 20 12
Date completed: 23-Aug, 20 12

7. WATER QUALITIES
Static water level: _____ Feet below land surface
Artesian Flow: No G.P.M. _____ P.S.I.
Water Temperature: 84.2 ° Fahrenheit
Water Quality: _____

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision. This report is true to the best of my knowledge.
Name National Security Technologies, LLC
Contractor
Address P. O. Box 98521, Las Vegas, NV 89193-8521
Contractor

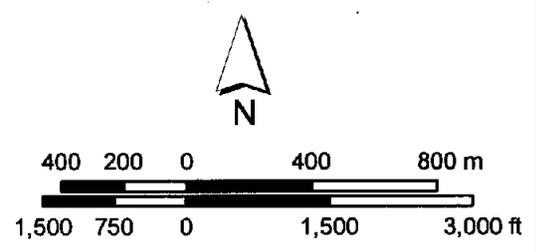
8. WELL TEST DATA		
Test Method	Draw Down (Feet Below Static)	Recorded Time (Hours)
<u>REC-101</u>		
<u>SEP 11 2012</u>		

Nevada contractor's license number as issued by the State Contractor's Board: _____
Nevada well driller's license number as issued by the Nevada Division of Water Resources (on-site driller): 2125
Signed: [Signature]
By driller performing actual drilling on site or contractor
Date: 10-Sep-12



- Well ER-11-2
- Existing drill hole
- ▨ Area 5 Radioactive Waste Management Site
- NNSS boundary
- - - NNSS operational area boundary
- ⋯ Unpaved road
- Paved road
- Elevation contour (50 m)

Nevada Central State Plane Projection (meters), North American Datum 1983



Black tick marks are in Nevada State Plane, Central Zone, NAD83, meters
 Blue tick marks are in Universal Transverse Mercator, NAD83, meters

Topographic Map of the Well ER-11-2 Area Showing the Location of Roads and Nearby Drill Holes

National Security Technologies LLC
Vision • Service • Partnership

H300-KO-12-0007

September 11, 2012

Steve Martinez, Well Supervisor
Southern Nevada Branch Office
Division of Water Resources
Nevada Department of Conservation
and Natural Resources
400 Shadow Lane, Suite 201
Las Vegas, NV 89106

Subject: WELL DRILLER'S REPORTS FOR WELLS ER-5-5 AND ER-11-2, NOTICE OF INTENT NUMBERS 32289 AND 32290

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, National Security Technologies as a matter of comity, is submitting the enclosed Well Driller's Reports for the subject wells

If you have any questions, please contact P. Ken Ortego at 295-0634 or 630-4759.



P. K. Ortego, Project Manager
Underground Test Area

PKO:sas

Enclosures: as stated

cc: Correspondence Control, w/o encs.
UGTA Correspondence, w/encs.
W. R. Wilborn, NNSA/NSO, w/encs.

**DCNR/DWR
RECEIVED**

SEP 11 2012

LAS VEGAS OFFICE

National Security Technologies, LLC

Vision • Service • Partnership

www.NSTec.com

P.O. Box 98521, Las Vegas, NV 89193-8521
2621 Losee Road, N. Las Vegas, NV 89030-4129