

ORIGINAL

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

OFFICE USE ONLY
Log No. 118497
Permit No. 41003
Basin 0604

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. 70195

1 OWNER NV Energy
MAILING ADDRESS PO Box 10100 Reno, NV 89520

ADDRESS AT WELL LOCATION North Valmy Power Plant
Well # 27
Subdivision Name: _____ County: Lander

2 LOCATION NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 31 T 35N N/S R 45 E
PERMIT/WAIVER No. 41003
Issued by Water Resources Parcel No.

Latitude 40° 51.830 N UTM E NAD 27
Longitude 116° 56.670 W N NAD 83/WGS 84

3 TYPE OF WELL
 Domestic Irrigation Test
 Municipal/Industrial Monitor Stock

Is this well being plugged because a replacement well was drilled? Yes
If yes, what is replacement well NOI? 70196
Is there an existing well log? Yes
If yes, what is NDWR well log #? 22693

4 EXISTING WELL CONSTRUCTION

Depth Drilled 850' Feet Depth Cased 850' Feet

EXISTING CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
14"		.312"	0'	850'

7 WELL PLUGGING PROCEDURE
Was well cleaned out to total depth? yes no
If well was not cleaned out to total depth, please explain why: _____
Was the well contaminated? yes no
Was the casing pulled? yes no
Was the casing over drilled? yes no
If casing was left in place, please show where additional perforations were made:
Additional Perforations:

Existing Perforations:

Type of perforation	Size of perforation	From	To
Louvered	1/8"	114' feet	840' feet

Type of perforater used: Holte Air Perforater

From	To	Number of perfs per linear foot
100' feet	114' feet	6 Rows
840' feet	850' feet	6 Rows

5 WATER LEVEL
Static water level N/A feet below land surface
Artesian flow No G.P.M. 0 P.S.I.
Water temperature Cool °F Quality _____

8 WELL PLUGGING MATERIALS

From	To	Material Used	Applied
0' feet	20' feet	Neat Cement	<input checked="" type="checkbox"/> Pumped <input type="checkbox"/> Poured
20' feet	850' feet	Bentonite Grout	<input checked="" type="checkbox"/> Pumped <input type="checkbox"/> Poured
			<input type="checkbox"/> Pumped <input type="checkbox"/> Poured
			<input type="checkbox"/> Pumped <input type="checkbox"/> Poured
			<input type="checkbox"/> Pumped <input type="checkbox"/> Poured
			<input type="checkbox"/> Pumped <input type="checkbox"/> Poured

6 Additional Notes or Comments
plugs well log 22693
replaced by 118496
NAD 83
40.863926° N
116.943563° W

Neat Cement Fluid Weight 15 LBS lbs/gal
Bentonite Grout 30% % bentonite
Date Started 10/11/2013
Date Completed 10/14/2013

9 DRILLER'S CERTIFICATION
This well was plugged and abandoned under my supervision and the report is true to the best of my knowledge.
Name Hydro Resources - West, Inc. Contractor
Address 4975 W. Winnemucca Blvd. Contractor
Winnemucca, NV 89445
Nevada contractor's license number 56797
issued by the State Contractor's Board
Nevada driller's license number issued by the # 2483
Division of Water Resources, the on-site driller
Signed Michelle Atrother
By driller performing actual drilling on site or contractor
Date 10/31/13

USE ADDITIONAL SHEETS IF NECESSARY

(Rev. 05-06)

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

OFFICE USE ONLY
Log No. 114249
Permit No. 41003
Basin No. 064

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. 70196
WELL NAME (If applicable): PW 27R

1. OWNER/CLIENT NAME NV Energy
MAILING ADDRESS PO Box 10100 Reno NV, 89520

DETAILED ADDRESS AT WELL LOCATION North Valmy Power Plant
Subdivision Name: _____ County: _____

2. PLS LOCATION NE 1/4 SE 1/4 31 Sec 35 N/S 45 E
PERMIT/WAIVER NO. 41003
Issued by Water Resources Current Parcel No.

Latitude 40° 51.813 N UTM E _____ NAD 27
Longitude 116° 56.670 W UTM N _____ NAD 83/WGS 84

3. WORKED PERFORMED
 New Well Deepen: Orig WL# _____
 Replacement: Original well log # 22693
 Recondition: Original well log # _____

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

5. WELL TYPE
 Auger Rotary RVC
 Air Mud Sonic
 Other

6. LITHOLOGIC LOG					
Material Encountered	Lost Circ.	Water Strata	From	To	Thickness
Clay with Sand Layers			710'	728'	18'
Clay			728'	789'	61'
Clay with Sand Layers			789'	826'	37'
Clay			826'	858'	32'
Clay with Sand Layers			858'	881'	23'
The bottom portion of this borehole was filled in with native fill to 725'. From 725'-715' a neat cement cap was placed.					
+2'-330' Blank Pipe is 2% Copper Bearing 330'-440' HSLA Blank 460'-690' Louvered pipe is HSLA. From 440'-460' there is a compression joint made out of HSLA.					
Date started: <u>3-Sep</u> , 20 <u>13</u>					
Date completed: <u>25-Sep</u> , 20 <u>13</u>					

9. WELL CONSTRUCTION					
Depth Drilled:		881'	Feet	Depth Cased: 700' Feet	
HOLE DIAMETER (BIT SIZE)					
		From	To		
		Inches	Feet	Inches	Feet

CASING SCHEDULE				
Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)

PERFORATIONS:
Type of perforation: _____
Size of perforation: _____
From _____ Feet To _____ 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 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"/> 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 type="checkbox"/> Gravel Pack [> 0.2 in.] _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> Sand Pack [< 0.2 in.] _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured
<input type="checkbox"/> Other, explain: _____ to _____	<input type="checkbox"/> Pumped	<input type="checkbox"/> Poured

7. WATER QUALITIES
Static water level: _____ Feet below land surface
Artesian Flow: _____ G.P.M. _____ P.S.I.
Water Temperature: _____ ° 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 Hydro Resources-West, Inc. Contractor
Address 4975 W. Winnemucca Blvd. Winnemucca, NV 89445 Contractor
Nevada contractor's license number as issued by the State Contractor's Board: 56797
Nevada well driller's license number as issued by the Nevada Division of Water Resources (on-site driller): # 2158
Signed: Michelle Strother
Date: 10/31/13
By driller performing actual drilling on site or contractor

8. WELL TEST DATA			
Test Method:	G.P.M.	Draw Down (Feet Below Static)	Recorded Time (Hours)
<input type="checkbox"/> Bailor <input type="checkbox"/> Pump <input type="checkbox"/> Air Lift			