

ORIGINAL

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

OFFICE USE ONLY *109403*

Log No. _____

Permit No. _____

Basin *664* *pej/td*

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. **64949**

1. OWNER NVenergy ADDRESS AT WELL LOCATION North Valmy Power Plant
 MAILING ADDRESS PO Box 10100 WELL # 4
Reno, NV 89520-0024 Subdivision Name: _____ County: Humboldt

2. LOCATION SW 1/4 SW 1/4 Sec 33 T 33N N/S R 44 E Latitude 40° 41.04' N UTM E NAD 27
 PERMIT/WAIVER No. 31165 Longitude 117° 02.01' W N NAD 83/WGS 84

Issued by Water Resources Parcel No. _____

3. WORKED PERFORMED
 New Well Replace Recondition
 Deepen Other

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

5. WELL TYPE
 Cable Rotary RVC
 Air Other

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
Top Soil		0'	2'	2'
Silty Clay w/Cobbles		2'	28'	26'
Cobbles w/Sand & Clay		28'	36'	8'
Silty Clay w/Cobbles		36'	42'	6'
Sand & Gravel		42'	100'	58'
Clay		100'	113'	13'
Sand & Gravel w/Cobbles		113'	226'	113'
Clay w/Sand & Gravel		226'	229'	3'
Sand & Gravel w/Cobbles		229'	370'	141'
Sand & Gravel w/Clay		370'	388'	18'
Sand & Gravel w/Cobbles		388'	400'	12'
Sand & Clay		400'	411'	11'
Sand & Clay w/Gravel		411'	418'	7'
Coarse Sand & Clay		418'	461'	43'
Sand, Gravel, Clay, Cobbles		461'	628'	167'
Hard Rock		628'	722'	94'
Hard Rock w/Clay Layers		722'	860'	138'
Clay w/Sand & Gravel		860'	871'	11'

40.684090 N
117.0325620 W
NAD 27 (TA)

9. WELL CONSTRUCTION

Depth Drilled 871' Feet Depth Cased 860' Feet

HOLE DIAMETER (BIT SIZE)

	From	To
38" Inches	0'	40' Feet
31" Inches	40'	200' Feet
21" Inches	200'	871' Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
34"		.375"	0'	40'
24"		.375"	0'	200'
14" OD		S.S. .375"	+2'	260'

Perforations:

Type of perforation S.S. FULL-FLO LOUVERED

Size of perforation 0.080"

From 260' feet to 860' feet

From _____ feet to _____ feet

Annular Seal: Yes No

Neat Cement 0' to 40' Pumped Poured

Cement Grout 0' to 200' Pumped Poured

Concrete Grout 0' to 240' Pumped Poured

≥30% Bentonite Grout to _____ Pumped Poured

Gravel Pack: Yes No 245' to 871' Pumped Poured

Type: SRI 1/4" X 1/8"

Bentonite Chips: Yes No 240' to 245' Pumped Poured

Type: 3/8" HOLE PLUG

Date started: 10-Nov, 20 09
 Date completed: 12/3/2009, 20 09

7. Water Level
 Static water level: 170' feet below land surface
 Artesian Flow: NO G.P.M. NO P.S.I.
 Water Temperature: COOL °F
 Quality: _____

8. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
SWABBING	300	195	75 HRS

72:144 91 330 2009 DEC 15 AM 12

10. DRILLER'S CERTIFICATION

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

Name Hydro Resources Nevada, Inc dba Humboldt Drilling & Pump Co
 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 # 2177
 Division of Water Resources, the on-site driller

Signed Charles Jaynes - Office
 By driller performing actual drilling on site or contractor

Date 12/15/2009

