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

OFFICE USE ONLY
Log No. 124264
Permit No.
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. 74327
WELL NAME (*if applicable*): LF9

1. OWNER/CLIENT NAME NV Energy
MAILING ADDRESS 23755 Treaty Hill Rd. Valmy NV 89438

DETAILED ADDRESS AT WELL LOCATION 23755 Treaty Hill Rd. Valmy NV 89438
Subdivision Name: North Valmy Power Plant County: Humboldt

2. PLS LOCATION SW¼ SW ¼ 21 Sec 35 N/S 43 E
PERMIT/WAIVER NO. M/0-20316 (Issued by Water Resources) 3543-21-100-001 (Current Parcel No.)

Latitude W117.14525 UTM E ☒ NAD 27
Longitude N 40.88927 UTM N ☐ 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

6. LITHOLOGIC LOG

Material Encountered	Lost Circ.	Water Strata	From	To	Thickness
Alluvium		No	0'	45'	45'
Clay & Gravel		No	45'	63'	18'
Basalt		Yes	63'	108'	45'
Neat Cement			0'	20'	20'
Cement Grout			20'	44'	24'
3/8 bentonite Chip			44'	46'	2'
Sand			46'	108'	62'
4.5" Sch 80 PVC Blank			+2	48	50'
4.5 SCH80 PVC Screen			48'	108'	60'
4.5 SCH80 PVC Cap					

Date started: 12-7, 20 15
Date completed: 12-9, 20 15

7. WATER QUALITIES
Static water level: 87' Feet below land surface
Artesian Flow: NO G.P.M. P.S.I.
Water Temperature: 76.5 ° Fahrenheit
Water Quality: Clear

8. WELL TEST DATA
Test Method: ☐ Bailer ☐ Pump ☒ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Recorded Time (Hours)
10	[redacted]	½ hr.
10		1 hr.

9. WELL CONSTRUCTION
Depth Drilled: 108' Feet 108' Depth Cased: Feet

HOLE DIAMETER (BIT SIZE)

		From	To
16" Inches		0' Feet	20' Feet
10 3/4" Inches		20' Feet	108' Feet
Inches		Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
[redacted]				
4.5"		SCH-80	+2	48'

PERFORATIONS:
Type of perforation: Slotted
Size of perforation: .010
From 48' Feet To 108' Feet
From Feet To Feet
From Feet To Feet

ANNULAR MATERIALS

☒ Sanitary Seal	0' to 20'			
☒ Neat Cement	0' to 20'		☒ Pumped	☐ Poured
☒ Cement Grout	20' to 44'		☒ Pumped	☐ Poured
☐ Concrete Grout	to		☐ Pumped	☐ Poured
☒ Bentonite Chips	44' to 46'		☒ Pumped	☐ Poured
☐ Bentonite Grout	to		☐ Pumped	☐ Poured
☐ 15 % ☐ 20 % ☐ Other, explain:				
☐ Gravel Pack [> 0.2 in.]	to		☐ Pumped	☐ Poured
☒ Sand Pack [< 0.2 in.]	46' to 108'		☒ Pumped	☐ Poured
☐ Other, explain:	to		☐ Pumped	☐ Poured

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision. This report is true to the best of my knowledge.
Name Hard Rock Exploration (Contractor)
Address 5100 Belsera Ct. Reno NV 89519 (Contractor)

Nevada contractor's license number as issued by the *State Contractor's Board*: ~~048195A~~ 48915A
Nevada well driller's license number as issued by the *Nevada Division of Water Resources (on-site driller)*: 1957

Signed: (By driller performing actual drilling on site or contractor)
Date: 12-9-15

(Rev. 08-12)
USE ADDITIONAL SHEETS IF NECESSARY
(NSPO Rev 11-12) (O) 627