STATE OF NEVADA

DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 105054
Permit No.
Basin 064

PRINT OR TYPE ONLY

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

NOTICE OF INTENT NO. 61685

1. OWNER Sierra Pacific Power Co. EW-14
MAILING ADDRESS 6100 Neil Road
Reno, Nevada 89511

ADDRESS AT WELL LOCATION No. Valmy Power Plant
Battle Mountain, Nevada
Subdivision Name: N/A County: Humboldt

2. LOCATION NE¼SE¼ Sec7T34N/ R43E
PERMIT/WAIVER NO. 76440/W-619 (Issued by Water Resources) 007-401-06 (Parcel. No.)

Latitude 40.836558 UTM E 485669 ☒ NAD 27
Longitude 117.169977 N 4520416 ☐ NAD 83/WGS 84

3. WORK PERFORMED
☒ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Other

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

5. WELL TYPE
☐ Cable ☐ Rotary ☒ RVC
☐ Air ☐ Other

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Clay		0'	370'	370'
Basalt		370'	400'	30'
Red & Black Rock		400'	430'	30'
Black, Red & Orange Rock with Some Clay		430'	550'	120'
Black Rock with some Clay		550'	720'	170'

Date started: 19-Nov , 20 07
Date completed: 02-Dec , 20 07

7. Water Level
Static water level: 211.9 feet below land surface
Artesian Flow: G.P.M. P.S.I
Water Temperature: 81 °F
Quality: Good

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

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
388	17	30 mins.

9. WELL CONSTRUCTION
Depth Drilled 720 Feet Depth Cased 711 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
38 Inches	0 Feet	35 Feet
31 Inches	35 Feet	380 Feet
22 Inches	380 Feet	720 Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
32.0	168.21	.500	0	35
24	94.62	.375	0	380
14	36.71	.250	+2	711

Perforations:
Type of perforation Full Flow Louvered
Size of perforation .080
From 401 feet to 711 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☒ Yes ☐ No
☒ Neat Cement 0' to 376' ☒ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☒ Yes ☐ No 380' to 720' ☐ Pumped ☒ Poured
Type: SRI 1/8 x 1/4
Bentonite Chips: ☒ Yes ☐ No 376' to 380' ☒ Pumped ☐ Poured
Type: 3/8 Hole Plug

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Boart Longyear Drilling Services (CONTRACTOR)
Address P.O. Box 5279 (CONTRACTOR)
Elko, Nevada 89802
Nevada contractor's license number issued by the State Contractor's Board 0021976
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 2039
Signed
By driller performing actual drilling on site or contractor
Date 03-Dec-07