Plugged under Well Log # 110454

491

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

OFFICE USE ONLY
Log No. 102138
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. 58844

1. OWNER Sierra Pacific Power Company MW-1
MAILING ADDRESS 6100 Neil Road, Reno, NV. 89511

ADDRESS AT WELL LOCATION North Valmy Power Plant, Battle Mountain, NV.
Subdivision Name: NA County: Lander

2. LOCATION NE¼NE¼ Sec26T36N/ R44E
PERMIT/WAIVER NO. MO-1429 (Issued by Water Resources) N/A (Parcel. No.)

Latitude 40° 58.21 N
Longitude 116° 58.26 W
UTM E
N
☒ NAD 27
☐ 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
Sand, silt, and topsoil		0	10'	10'
Alluvial clays and gravel		10'	355'	345'
Black basalt		355'	375'	20'
Alluvium with ryolite gravels and clay mix		375'	652'	277'

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40.972500 N
116.973889 W NAD27

Date started: 11-15, 20 06
Date completed: 11-21, 20 06

7. Water Level
Static water level: 150.24 feet below land surface
Artesian Flow: No G.P.M. N/A P.S.I
Water Temperature: Cool °F
Quality: Fair

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

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
21		3

9. WELL CONSTRUCTION
Depth Drilled 652 Feet Depth Cased 650 Feet

HOLE DIAMETER (BIT SIZE)

		From	To
14.750	Inches	0 Feet	20 Feet
	Inches	Feet	Feet
8.750	Inches	20 Feet	652 Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
10.750	28.035	0.250	+3	20 Steel
2.375	0.95	0.218	+1	650 PVC

Perforations:
Type of perforation Milled Slot PVC
Size of perforation 0.020"
From 450 feet to 650 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 52'	☐ Pumped	☒ Poured
☐ Cement Grout	to	☐ Pumped	☐ Poured
☐ Concrete Grout	to	☐ Pumped	☐ Poured
☐ ≥30% Bentonite Grout	to	☐ Pumped	☐ Poured

Gravel Pack: ☒ Yes ☐ No 439' to 652' ☒ Pumped ☐ Poured
Type: #6 SRI gravel
Bentonite Chips: ☒ Yes ☐ No 254' to 439' ☒ Pumped ☐ Poured
Type: MI 3/8" Kwik Plug medium

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Lang Exploratory Drilling (CONTRACTOR)
Address P.O. Box 5279 (CONTRACTOR)
Elko, NV 89802-5279
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 12-8-06

(Rev 05-06) USE ADDITIONAL SHEETS IF NECESSARY

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Subdivision Name: NA County: Lander

2. LOCATION NE¼NE¼ Sec26T36N/ R44E
Latitude 40° 58.21 N UTM E ☒ NAD 27
Longitude 116° 58.26 W N ☐ NAD 83/WGS 84

PERMIT/WAIVER NO. MO-1429 (Issued by Water Resources) N/A (Parcel. No.)

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
Page 2				

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Date started: 11-15, 20 06
Date completed: 11-21, 20 06

7. Water Level
Static water level: 154.6 feet below land surface
Artesian Flow: G.P.M. P.S.I
Water Temperature: Cool °F
Quality: Fair

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

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
11		2

9. WELL CONSTRUCTION
Depth Drilled 652 Feet Depth Cased 650 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
Inches		Feet		Feet	
Inches		Feet		Feet	
Inches		Feet		Feet	

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2.375	0.950	0.218	+1	250

Perforations:
Type of perforation Mill Slot
Size of perforation 0.020"
From 200 feet to 250 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☐ Yes ☐ No
☐ Neat Cement to ☐ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☒ Yes ☐ No 193.7' to 254' ☒ Pumped ☐ Poured
Type: #6 SRI gravel
Bentonite Chips: ☒ Yes ☐ No 52' to 193.7' ☒ Pumped ☐ Poured
Type: MI 3/8" Medium Kwik Plug

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