491

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

OFFICE USE ONLY
Log No. 102349
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. **58847**

1. OWNER **Sierra Pacific Power Company** **MW-4A**
MAILING ADDRESS **6100 Neil Road**
Reno, NV. 89511

ADDRESS AT WELL LOCATION **North Valmy Power Plant,**
Battle Mountain, NV. 40°59' 42.8" 116° 59' 11.1"
Subdivision Name: **N/A** *County:* **Lander**

2. LOCATION **NW¼SW¼** Sec**14**T**36**N/ R**44**E
PERMIT/WAIVER NO. **M/O-1429** *Issued by Water Resources* **N/A** Parcel. No.

Latitude ~~40° 54.56" N~~ Longitude ~~116° 57.22" 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 and silt		**0**	**16'**	**16'**
Green clay		**16'**	**30'**	**14'**
Alluvium clay and		**30'**		
gravel			**360'**	**300'**
Black basalt		**360'**	**520'**	**160'**
Alluvial gravel with		**520'**		
sandstone and clay			**655'**	**135'**

40.995222
116.986417 NAD 27

Date started: **12-04**, 20 **06**
Date completed: **12-07**, 20 **06**

9. ***WELL CONSTRUCTION***
Depth Drilled **655** Feet Depth Cased **650.8** Feet

HOLE DIAMETER (BIT SIZE)

	From	To
14.750 Inches	**0** Feet	**20** Feet
8.500 Inches	**20** Feet	**655** Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
10.750	**28.035**	**0.250**	**+3**	**20.00**
2.375	**0.950**	**0.218**	**+1**	**389.80**

Perforations:
Type of perforation **Milled Slot**
Size of perforation **0.020"**
From **339.8** feet to **389.8** 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 52.2' ☒ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☐ Concrete Grout to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☒ Yes ☐ No 332' to 389.8' ☒ Pumped ☐ Poured
Type: **SRI Supreme Gravel #6**
Bentonite Chips: ☒ Yes ☐ No 52.2' to 332' ☒ Pumped ☐ Poured
Type: **MI 3/8" Kwik Plug Medium**

7. *Water Level*
Static water level: **56** 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)
Shallow	**11**		**2**

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 **12/13/06**

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(Rev 05-06) USE ADDITIONAL SHEETS IF NECESSARY

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NOTICE OF INTENT NO. 58847

1. OWNER Sierra Pacific Power Company MW-4A
MAILING ADDRESS 6100 Neil Road, Reno, NV. 89511

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

2. LOCATION NW¼SW¼ Sec14T36N/ R44E
PERMIT/WAIVER NO. M/O-1429 (Issued by Water Resources) N/A (Parcel. No.)

Latitude 40° 54.56 N
Longitude 116° 57.22 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
Page 2				

Date started: 12-04, 20 06
Date completed: 12-07, 20 06

7. Water Level
Static water level: 73.6 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)
22		3

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9. WELL CONSTRUCTION
Depth Drilled Feet Depth Cased 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	650.8

Perforations:
Type of perforation Mill Slot
Size of perforation 0.020'
From 540.8 feet to 650.8 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 530' to 655' ☒ Pumped ☐ Poured
Type: SRI # 6
Bentonite Chips: ☒ Yes ☐ No 389.8' to 530' ☒ Pumped ☐ Poured
Type: 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
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 12/13/06

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