



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

OFFICE USE ONLY

Log No. 102986
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. 58856

1. OWNER Sierra Pacific Power Company Well 13-R ADDRESS AT WELL LOCATION North Valmy Power Plant
 MAILING ADDRESS 6100 Neil Road
Reno, NV. 89511 Battle Mountain, NV.
 Subdivision Name: N/A County: Humboldt

2. LOCATION SE 1/4 Sec 16 T34N R43E Latitude 40° 48' 56" N UTM E _____ NAD 27
 PERMIT/WAIVER NO. 47986 Parcel No. N/A Longitude 117° 8' 9" W N _____ 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
Topsoil - silt	No	0	10'	10'
Tan clay - some rock	175'	10'	190'	180'
Valmy quartzite	No	190'	363'	173'
Green, black, red rock	Yes	363'	509'	146'
Valmy quartzite	No	509'	568'	59'
Red and brown fractured rock with tan clay	Yes	568'	645'	77'
N 40.81556 W 117.135833 NAD27				
N 40.81556 W 117.135833 NAD83				

Date started: 01/05, 20 07
 Date completed: 01/21, 20 07

9. WELL CONSTRUCTION

Depth Drilled 645 Feet Depth Cased 638.63 Feet

HOLE DIAMETER (BIT SIZE)

From	To
38 Inches	0 Feet 30.1 Feet
31 Inches	30.1 Feet 160 Feet
22 Inches	160 Feet 645 Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
34	134.67	0.375	0	30.10
24	94.61	0.375	0	157.22
14	54.57	0.250	+2	638.63

Perforations:
 Type of perforation Full flo louvered stainless
 Size of perforation 0.080

From	To
177.03 feet	537.62 feet
557.74 feet	597.92 feet
618.03 feet	638.63 feet
_____ feet	_____ feet
_____ feet	_____ feet

Annular Seal: Yes No

Neat Cement 0 to 103.5' Pumped Poured
 Cement Grout _____ to _____ Pumped Poured
 Concrete Grout _____ to _____ Pumped Poured
 ≥30% Bentonite Grout _____ to _____ Pumped Poured

Gravel Pack: Yes No 103.5' to 645' Pumped Poured
 Type: 1/4 x 1/8 SRI Supreme

Bentonite Chips: Yes No _____ to _____ Pumped Poured
 Type: _____

7. Water Level

Static water level: 168.0 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

Draw Down (Feet Below Static)	G.P.M.	Time (Hours)
635'	570	3.5
615'	540	3.3
_____	_____	_____
_____	_____	_____

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 01/25/07

