



# LAKE 52812

## LITHOGRAPHIC DESCRIPTION OF OIL OR GAS WELL

(Not required if a mud log is submitted)

STATE OF OREGON • DEPT OF GEOLOGY & MINERAL INDUSTRIES • 229 BROADALBIN ST SW • ALBANY OR 97321

(In compliance with rules and regulations pursuant to ORS 520.)

### (1) Permittee Information

Name	Surprise Valley Electric
Mailing Address	516 U.S. Hwy. 395E
City/State/Zip	Alturas, California 96101
Telephone	866-843-2667 530-233-3511
Fax	
Email	
Prepared by	Lynn Culp, Roy Mink, Silvio Pezzopane

### (2) Well Information

Well No.	SVE-3
DOGAMI ID No.	

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SALEM, OR

Signature

Title

Date

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### (3) Well Cuttings

Depth		Description
From	To	
0	10	Brown sandy soil and gravelly sand; mix of volcanic lithologies (basalt, rhyolite, andesite, tuff, pumice)
10	40	Brownish-gray rounded fine gravel; mixed volcanic (basalt, rhyolite, andesite, obsidian, tuff, pumice), qtz-rich sand
40	100	Brownish-gray rounded medium to coarse (cobble) gravel; mixed volcanic (as above)
100	180	Dark brownish-gray rounded sand and gravel; mixed volcanic (as above)
180	230	Light-dark brownish-gray rounded medium (pebble) gravel; mixed volcanic (as above)
230	310	Brownish-gray rounded sand and coarse gravel; mixed volcanic (as above), qtz and detrital sand, brown silt and clay
310	440	Dark brownish gray rounded basalt gravel; olivine? phenocrysts rusty yellowish green, minor varicolored tuff and cinders
440	460	Brownish-gray rounded sand and medium gravel; mixed volcanic (as above), qtz and detrital sand, brown clay
460	490	Light-dark brownish gray rounded basalt gravel; phenocrysts rusty yellowish green, minor varicolored tuff and cinders
490	560	Brownish-gray rounded medium (pebble) gravel; mixed volcanic lithologies (as above), sand, brown clay
560	600	Brown sticky clay ash; dark brownish gray basalt gravel; weakly cemented qtz sand and ash fragments
600	660	Brownish-gray rounded pebble gravel; mixed volcanic lithologies, sand, brown clay
660	720	Reddish brown sticky clay ash; lithics of varicolored tuff; rounded pebble gravel, white, red, and black cinders, qtz sand
720	820	Grayish brown clay ash; soft red, olive gray to brown tuff; rounded basalt pebble gravel, w/pumicite and obsidian
820	860	Light olive brown clay ash; chunks soft red and brown non-welded tuff; rounded basalt pebble gravel
860	880	Reddish brown clay ash; chunks olive, red, and brown non-welded tuff; rounded pebble gravel, olive green clay coatings
880	920	Light olive to grayish brown clay ash; waxy red, white, and brown tuff and ash fragments; rounded basalt pebble gravel
920	970	Reddish brown clay ash; waxy olive, red, and brown tuff; weakly cemented qtz sand and ash fragments
970	1040	Brown clay ash; white pumicite, qtz sand, rounded olive and red welded tuff granules, cinders and ash fragments
1040	1140	Reddish brown clay ash; chunks of waxy olive, red, and light gray tuff; weakly cemented qtz sand and ash fragments
1140	1240	Red sticky clay ash; lithics of cinders and qtz ash fragments; whitish, red and gray tuff, rounded obsidian/basalt pebbles
1240	1290	Dark olive brown clay ash; red and olive gray non-welded tuff; rounded qtz, obsidian grains
1290	1350	Dark gray clay and ash; red and gray tuff; rounded basalt pebbles; calcite/qtz (chalcedony?) coatings/fillings
1350	1490	Dark olive gray to black, partially-welded vitric lithic tuff; red and gray tuff; clay, calcite/qtz fillings/cement?
1490	1540	Dark olive gray to black, moderately-welded vitric tuff; varicolored tuff lithics; calcite/qtz fillings/cement
1540	1630	Black partially-welded lithic tuff (50%); brown clay ash (20%); varicolored tuff (30%); calcite/qtz blades/fillings/cement
1630	1730	Reddish brown clay ash (60%); black to olive and varicolored tuffs (40%); calcite/qtz euhedral, blades/coatings
1730	1840	Black to dark olive partially-welded lithic tuff (60%); brown and gray tuff (40%); calcite/qtz in blades/fillings/cement
1840	1910	Black to dark olive partially-welded lithic tuff (50%); brown and gray tuff (50%); calcite/qtz in blades/fillings/cement
1910	1920	Reddish brown clay ash (60%); olive to black, and varicolored tuff (30%); calcite/qtz blades, rounded pebbles
1920	1990	Dark gray to black partially-welded tuff (60%); brown and gray ash tuff (40%); calcite/qtz fillings/cement
1990	2090	Olive gray to black moderately-welded vitric tuff (80%); white, red and gray ash tuff (<20%); chalcedony, FeO stains?
2090	2210	Light gray to white ash tuff (90-20%); black to olive gray tuff (20-70%), brown, red, and gray tuff (2-15%); qtz
2210	2370	Dark reddish brown lithic non-welded (ash) tuff (70-90%); red, white, black, and olive gray tuff (10-30%); calcite/qtz
2370	2410	Light bluish to greenish gray ash tuff (90-20%); brown, red, black, white, olive tuff (20-70%); calcite/euhedral qtz
2410	2430	Dark reddish brown lithic ash tuff (50-70%); greenish gray tuff (20-30%), red, gray, and black tuff (10-20%); calcite/qtz
2430	2460	Light bluish to greenish gray ash tuff (90-20%); brown, black, and red lithic tuff (20-70%); euhedral calcite blades/qtz
2460	2580	Dark reddish brown lithic ash tuff (40-50%); greenish gray ash tuff (20-30%), varicolored tuff (10-30%); calcite
2580	2610	Reddish brown tuff (30-40%); olive gray moderately-welded tuff (20-30%); varicolored lithics (20-30%), calcite blades
2610	2630	Reddish brown tuff (30-40%); olive gray densely-welded tuff (20-30%); varicolored lithics (20-30%), calcite blades
2630	2660	Reddish brown tuff (40-50%); olive gray partially-welded tuff (20-30%); varicolored lithics (10-20%), calcite/qtz crystals
2660	2705	no returns - no data
	2705	- Total Vertical Depth (before cleaning)

# LAKE 52812

## PROPOSED WELL DIAGRAM for Surprise Valley Electric Pasley #3

### HOLE Information

CONDUCTOR  
26 in to 40 ft

SURFACE HOLE  
17-1/2 in to 102 ft

PRODUCTION HOLE 1  
12-1/4 in to 2500 ft

Open Hole  
12 1/4 in to 2705'

7" Perf. Liner 2500'-2692'

### CASING Information

CONDUCTOR PIPE  
20 in

Top of 12-5/8" Production Liner 102 ft

SURFACE CASING  
13-5/8 in 68 ppi K55 Seal-offs

PRODUCTION LINER 1  
9-5/8 in 40 ppi K55 BTC Seal-offs

 CAPANO  
ENGINEERING  
CONSULTANTS

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8/2014 Cleared hole 2657-2710'  
set 7" perf. liner with  
bull nose and hole @  
2692ft.

# LAKE 52812

## SUMMARY REPORT - OIL OR GAS WELL

STATE OF OREGON • DEPT OF GEOLOGY & MINERAL INDUSTRIES • 229 BROADALBIN ST SW • ALBANY OR 97321

(In compliance with rules and regulations pursuant to ORS 520.)

### (1) Permittee Information

Name	Surprise Valley Electrification Corp.
Mailing Address	516 US Hwy 395 E
City/State/Zip	Alturas, CA. 96101
Telephone	530.233.3511
Fax	530.233.2190
Email	<a href="mailto:lynnsvec@frontier.com">lynnsvec@frontier.com</a>
Prepared by	Lynn Culp/George Scheid

### (2) Well Information

Well No.	SVE Well #3
DOGAMI ID No.	36-037-90032
Drilling Commenced	July 25, 2012
Drilling Completed	August 17, 2012
Date P & A	July 9, 2012
Total Depth	2705ft
Redrill Depth	
Logs Run	

*Signed E. Lynn Culp*

Member Service Manager

November 9, 2012

Signature

Title

Date

### (3) Casing Record

Size of Hole	Size of Casing	Weight (pounds per foot)	Grade/Type	Depth	Type and Amount of Cement	
26"	20"	104.05	30XS	40'	Type II	159 sx
17 1/2"	13 3/8"	68#	K-55	602'	89.1	bbls.
12 1/4"	9 5/8"	40#	K-55	2580'	N/A	bbls.
						bbls.

### (4) Plugs & Junk

Plugs / Junk	Geological Marker	Depth

### (5) Perforations or Liner

Size of Casing	From	To	Shots/ft.	Method of Perforating		
				Jet	Bullet	Slotted Liner
9 5/8"	490'	2580'				

### (6) Initial Production

Date	Clean Oil (bbl/day)	Gravity	Percent Water	FTP	FCP	SITP	SICP

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Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem Oregon 97301
(503) 986-0900
www.oregon.gov/owrd

Application for
Well ID Number

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WATER RESOURCES DEPT
SALEM, OREGON

Do not complete if the well already has a Well Identification Number.

I. OWNER INFORMATION

Current Owner Name (please print): Surprise Valley Electrification Corp Attn: Lynn Culp
Mailing Address: 516 US HWY 395 E
City, State, Zip: Alturas, CA 96101
Mail Well ID to: [X] SAME AS ABOVE [ ] In Care Of (C/O)
Name & Address:
City, State, Zip:

II. WELL LOCATION INFORMATION (Please fill out as completely as possible)

Township: 33 (North/South) Range: 18 (East/West) Section: 24 SW 1/4 of the NW 1/4
Tax Lot (usually last 3-5 numbers of Tax Map #): 1300 County Lake
GPS Coordinates: Lat 42.697929; Long -120.548951 Located 2,220 feet South and 1,190 feet East from the NW corner of Section 24
Street Address of Well, City:
If the property had a different street address in the past:

III. GENERAL WELL INFORMATION (Please fill out as completely as possible, AND attach copy of Well Report, if available)

Use of Well (domestic, irrigation, commercial, industrial, monitoring): Industrial - geothermal
Date Well Constructed (or property built): 8/17/2012 Total Well Depth: 2705 Casing Diameter: 10
Owner at time the well was constructed (if known): SVEC Well Report # (if known): LAKE 52812
Other Information: Well Name: SVE 3

SUBMITTED BY (please print): E. Lynn Culp [Signature] 12-7-18
PHONE: 530.233.3511 EMAIL &/or FAX: lynnsvec@frontier.com

Send application to: Oregon Water Resources Department 725 Summer St NE, Suite A, Salem, Oregon 97301; or fax to (503) 986-0902.
Applications are processed in the order they are received, and Well ID Numbers are mailed within 4-5 business days.

For Official Use Only by the Oregon Water Resources Department:

Received Date: 12-7-18 Well Report Number: LAKE 52812 Well Identification #: L-132439