

Form 5500-SF Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Short Form Annual Return/Report of Small Employee Benefit Plan This form is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA), and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500-SF.	OMB Nos. 1210-0110 1210-0089 <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold;">2012</div> This Form is Open to Public Inspection
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Part I Annual Report Identification Information			
For calendar plan year 2012 or fiscal plan year beginning <u>01/01/2012</u> and ending <u>12/31/2012</u>			
A	This return/report is for:	<input checked="" type="checkbox"/> a single-employer plan <input type="checkbox"/> a multiple-employer plan (not multiemployer) <input type="checkbox"/> a one-participant plan	
B	This return/report is:	<input type="checkbox"/> the first return/report <input type="checkbox"/> the final return/report <input type="checkbox"/> an amended return/report <input type="checkbox"/> a short plan year return/report (less than 12 months)	
C	Check box if filing under:	<input checked="" type="checkbox"/> Form 5558 <input type="checkbox"/> automatic extension <input type="checkbox"/> DFVC program	
		<input type="checkbox"/> special extension (enter description)	

Part II Basic Plan Information —enter all requested information			
1a	Name of plan <u>GEOTHERMAL SERVICES RETIREMENT PLAN</u>	1b	Three-digit plan number (PN) ▶ <u>001</u>
		1c	Effective date of plan <u>01/01/2003</u>
2a	Plan sponsor's name and address; include room or suite number (employer, if for a single-employer plan) <u>GEOTHERMAL SERVICES COMPANY, INC.</u> <u>2000 PRODUCTION DRIVE</u> <u>LOUISVILLE, KY 40299</u>	2b	Employer Identification Number (EIN) <u>61-1039902</u>
		2c	Sponsor's telephone number <u>502-499-1500</u>
		2d	Business code (see instructions) <u>236200</u>
3a	Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor Name <input type="checkbox"/> Same as Plan Sponsor Address	3b	Administrator's EIN
		3c	Administrator's telephone number
4	If the name and/or EIN of the plan sponsor has changed since the last return/report filed for this plan, enter the name, EIN, and the plan number from the last return/report.	4b	EIN
a	Sponsor's name	4c	PN
5a	Total number of participants at the beginning of the plan year	5a	<u>4</u>
b	Total number of participants at the end of the plan year	5b	<u>3</u>
c	Number of participants with account balances as of the end of the plan year (defined benefit plans do not complete this item)	5c	
6a	Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
b	Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	08/21/2013	JOSEPH BOONE
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
Preparer's name (including firm name, if applicable) and address; include room or suite number (optional)			Preparer's telephone number (optional)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	1174600	1237093
b Total plan liabilities	7b	0	0
c Net plan assets (subtract line 7b from line 7a)	7c	1174600	1237093
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	106215	
(2) Participants	8a(2)	0	
(3) Others (including rollovers)	8a(3)	0	
b Other income (loss)	8b	43116	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		149331
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	86688	
e Certain deemed and/or corrective distributions (see instructions)	8e	0	
f Administrative service providers (salaries, fees, commissions)	8f	150	
g Other expenses	8g	0	
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		86838
i Net income (loss) (subtract line 8h from line 8c)	8i		62493
j Transfers to (from) the plan (see instructions)	8j	0	

Part IV Plan Characteristics

9a	If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions: 1A 1G 3D
b	If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

Part V Compliance Questions

10 During the plan year:		Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? (See instructions and DOL's Voluntary Fiduciary Correction Program)	10a		X	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.)	10b		X	
c Was the plan covered by a fidelity bond?	10c		X	
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	10d		X	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service or other organization that provides some or all of the benefits under the plan? (See instructions.)	10e		X	
f Has the plan failed to provide any benefit when due under the plan?	10f		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year end.)	10g		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	10h		X	
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	10i			

Part VI Pension Funding Compliance

11 Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and line 11a below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11a Enter the amount from Schedule SB line 39	11a
12 Is this a defined contribution plan subject to the minimum funding requirements of section 412 of the Code or section 302 of ERISA? ..	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.)	
a If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions, and enter the date of the letter ruling granting the waiver. Month _____ Day _____ Year _____	
If you completed line 12a, complete lines 3, 9, and 10 of Schedule MB (Form 5500), and skip to line 13.	
b Enter the minimum required contribution for this plan year	12b

c Enter the amount contributed by the employer to the plan for this plan year.....	12c	
d Subtract the amount in line 12c from the amount in line 12b. Enter the result (enter a minus sign to the left of a negative amount)	12d	
e Will the minimum funding amount reported on line 12d be met by the funding deadline?.....	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "Yes," enter the amount of any plan assets that reverted to the employer this year	13a
b Were all the plan assets distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
c If during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)	
13c(1) Name of plan(s):	13c(2) EIN(s)

Part VIII Trust Information (optional)

14a Name of trust	14b Trust's EIN

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2012 This Form is Open to Public Inspection
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For calendar plan year 2012 or fiscal plan year beginning 01/01/2012 and ending 12/31/2012

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>GEOTHERMAL SERVICES RETIREMENT PLAN</u>	B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>GEOTHERMAL SERVICES COMPANY, INC.</u>	D Employer Identification Number (EIN) <u>61-1039902</u>
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	F Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500

Part I	Basic Information
1	Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2012</u>
2	Assets:
a	Market value 2a <u>1174600</u>
b	Actuarial value 2b <u>1174600</u>
3	Funding target/participant count breakdown:
a	For retired participants and beneficiaries receiving payment 3a <u>0</u> (1) Number of participants <u>0</u> (2) Funding Target <u>0</u>
b	For terminated vested participants 3b <u>1</u> <u>1025</u>
c	For active participants:
(1)	Non-vested benefits 3c(1) <u>0</u>
(2)	Vested benefits 3c(2) <u>1197289</u>
(3)	Total active 3c(3) <u>3</u> <u>1197289</u>
d	Total 3d <u>4</u> <u>1198314</u>
4	If the plan is in at-risk status, check the box and complete lines (a) and (b) <input type="checkbox"/>
a	Funding target disregarding prescribed at-risk assumptions 4a
b	Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor 4b
5	Effective interest rate 5 <u>6.73 %</u>
6	Target normal cost 6 <u>843</u>

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	<u>08/19/2013</u>
Signature of actuary	Date
<u>MICHAEL JACOB</u>	<u>11-04950</u>
Type or print name of actuary	Most recent enrollment number
<u>ACTUARIAL ANALYSTS, INC.</u>	<u>973-239-7500</u>
Firm name	Telephone number (including area code)
<u>500 BLOOMFIELD AVENUE</u> <u>VERONA, NJ 07044</u>	
Address of the firm	

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2012
v. 120126

Part II Beginning of Year Carryover Prefunding Balances		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	1600	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	1600	0
10	Interest on line 9 using prior year's actual return of <u>3.68</u> %	59	
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		24020
	b Interest on (a) using prior year's effective interest rate of <u>5.56</u> % except as otherwise provided (see instructions)		1336
	c Total available at beginning of current plan year to add to prefunding balance		25356
	d Portion of (c) to be added to prefunding balance		25356
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	1659	25356

Part III Funding Percentages			
14	Funding target attainment percentage	14	95.76 %
15	Adjusted funding target attainment percentage	15	95.76 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	92.26 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
12/21/2012	50000				
12/31/2012	56215				
			Totals ►	18(b)	106215
				18(c)	0

19	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:	
	a Contributions allocated toward unpaid minimum required contributions from prior years.	19a 0
	b Contributions made to avoid restrictions adjusted to valuation date	19b 0
	c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c 99462
20	Quarterly contributions and liquidity shortfalls:	
	a Did the plan have a "funding shortfall" for the prior year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	<input type="checkbox"/> Yes <input type="checkbox"/> No
	c If line 20a is "Yes," see instructions and complete the following table as applicable:	

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 5.54%	2nd segment: 6.85%	3rd segment: 7.52 %	<input type="checkbox"/> N/A, full yield curve used
b Applicable month (enter code).....				21b 0
22 Weighted average retirement age				22 72
23 Mortality table(s) (see instructions) <input checked="" type="checkbox"/> Prescribed - combined <input type="checkbox"/> Prescribed - separate <input type="checkbox"/> Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	843	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	50729	10327	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33) ..	34	11170	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	1	0	1
36 Additional cash requirement (line 34 minus line 35)	36	11169	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	99462	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	88293	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years.....	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	<input type="checkbox"/> 2 plus 7 years <input type="checkbox"/> 15 years		
b Eligible plan year(s) for which the election in line 41a was made	<input type="checkbox"/> 2008 <input type="checkbox"/> 2009 <input type="checkbox"/> 2010 <input type="checkbox"/> 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

Geothermal Services, Inc.
Retirement Plan

VALUATION AS OF 01/01/2012

Schedule SB, line 26 - Schedule of Active Participant Data

Age	Years of Credited Service											
	< 1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24	
	#	Avg. Comp.	#	Avg. Comp.	#	Avg. Comp.	#	Avg. Comp.	#	Avg. Comp.	#	Avg. Comp.
<25												
25-29												
30-34												
35-39												
40-44												
45-49					1							
50-54												
55-59												
60-64												
65-69												
70+									1			

Age is attained age as of the valuation date.

indicates the number of active participants in an age and service category.

**SCHEDULE SB
(Form 5500)**Department of the Treasury
Internal Revenue ServiceDepartment of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

**Single-Employer Defined Benefit Plan
Actuarial Information**

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500 or 5500-SF.**

OMB No. 1210-0110

2012**This Form is Open to Public
Inspection**

For calendar plan year 2012 or fiscal plan year beginning 01/01/2012 and ending 12/31/2012

▶ **Round off amounts to nearest dollar.**▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.**A** Name of plan

Geothermal Services Retirement Plan

B Three-digit

plan number (PN) ▶

001

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF

Geothermal Services Company, Inc.

D Employer Identification Number (EIN)

61-1039902

E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B**F** Prior year plan size: ☒ 100 or fewer ☐ 101-500 ☐ More than 500**Part I Basic Information****1** Enter the valuation date: Month 1 Day 1 Year 2012**2** Assets:

	2a	
a Market value	1,174,600	
b Actuarial value	1,174,600	

3 Funding target/participant count breakdown:

	(1) Number of participants	(2) Funding Target
a For retired participants and beneficiaries receiving payment.....	0	0
b For terminated vested participants.....	1	1,025
c For active participants:		
(1) Non-vested benefits	3c(1)	0
(2) Vested benefits	3c(2)	1,197,289
(3) Total active.....	3c(3)	1,197,289
d Total.....	3d	1,198,314

4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐

	4a	4b
a Funding target disregarding prescribed at-risk assumptions		
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor		

5 Effective interest rate **5** 6.73**6** Target normal cost **6** 843**Statement by Enrolled Actuary**

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

**SIGN
HERE**

Signature of actuary

Michael Jacob

Type or print name of actuary

Actuarial Analysts, Inc.

Firm name

500 Bloomfield Avenue

Verona

NJ 07044

Address of the firm

08/19/2013

Date

11-04950

Most recent enrollment number

(973) 239-7500

Telephone number (including area code)

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2012
v. 120126

Part II Beginning of Year Carryover Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	1,600	0
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	1,600	0
10 Interest on line 9 using prior year's actual return of <u>3.68</u> %	59	
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		24,020
b Interest on (a) using prior year's effective interest rate of <u>5.56</u> % except as otherwise provided (see instructions)		1,336
c Total available at beginning of current plan year to add to prefunding balance		25,356
d Portion of (c) to be added to prefunding balance		25,356
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d - line 12)	1,659	25,356

Part III Funding Percentages

14 Funding target attainment percentage	14	95.76 %
15 Adjusted funding target attainment percentage	15	95.76 %
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	92.26 %
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls**18** Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
12/21/2012	50,000				
12/31/2012	56,215				
Totals ▶			18(b)	106,215	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	99,462

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No
- b** If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No
- c** If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year

(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:				
1st segment:	2nd segment:	3rd segment:	<input type="checkbox"/> N/A, full yield curve used	
5.54 %	6.85 %	7.52 %		
b Applicable month (enter code).....			21b	0
22 Weighted average retirement age			22	72
23 Mortality table(s) (see instructions) <input checked="" type="checkbox"/> Prescribed - combined <input type="checkbox"/> Prescribed - separate <input type="checkbox"/> Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.....		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27	

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6).....		31a	843
b Excess assets, if applicable, but not greater than line 31a		31b	0
32 Amortization installments:		Outstanding Balance	Installment
a Net shortfall amortization installment		50,729	10,327
b Waiver amortization installment		0	0
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount		33	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....		34	11,170
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	1	0	1
36 Additional cash requirement (line 34 minus line 35)		36	11,169
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....		37	99,462
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)		38a	88,293
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances		38b	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)		39	0
40 Unpaid minimum required contributions for all years		40	0

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected <input type="checkbox"/> 2 plus 7 years <input type="checkbox"/> 15 years			
b Eligible plan year(s) for which the election in line 41a was made <input type="checkbox"/> 2008 <input type="checkbox"/> 2009 <input type="checkbox"/> 2010 <input type="checkbox"/> 2011			
42 Amount of acceleration adjustment		42	
43 Excess installment acceleration amount to be carried over to future plan years		43	

ATTACHEMENT TO FORM 5500 SCHEDULE B
STATEMENT BY ENROLLED ACTUARY
QUESTION 32a

Plan Sponsor: Geothermal Services Company
2000 Production Lane
Louisville, KY 40299

EIN: 61-1039902

Plan Number: 001 Plan Year End: 12/31/12

Phone #: (502) 499-1500

Plan Name: Geothermal Services Retirement Plan

QUESTION 32(a)

The Amortization schedule for the annual net shortfall amortization amount was derived as follows;

<u>Interst Rate</u>	<u>P/V</u>
5.54%	1.00000
5.54%	0.94751
5.54%	0.89777
5.54%	0.85065
5.54%	0.80599
6.85%	0.71800
6.85%	0.67197
2011 Factor	5.8919
Factor - 1	5.2199
Factor - 2	4.5019
Factor - 3	3.6959
Factor - 4	2.8453
08 S/F - PMT	-
08 S/F P/V	-
09 S/F - PMT	-
09 S/F P/V	-
10 S/F - PMT	-
10 S/F P/V	-
2011 S/F	78,581
2011 S/F PMT	15,054
2012 S/F	(27,852)
2012 S/F PMT	(4,727)
Gross 2012 PMT	10,327
Gross 2012 S/F	50,729